

KOREA ELECTRIC POWER CORP  
Form 20-F  
April 30, 2012  
Table of Contents

As filed with the Securities and Exchange Commission on April 30, 2012

**UNITED STATES**  
**SECURITIES AND EXCHANGE COMMISSION**  
Washington, D.C. 20549 F

**Form 20-F**

(Mark One)

REGISTRATION STATEMENT PURSUANT TO SECTION 12(b) OR (g) OF THE SECURITIES EXCHANGE ACT OF 1934  
OR

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934  
For the fiscal year ended December 31, 2011

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934  
For the transition period from            to

OR

SHELL COMPANY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934  
Date of event requiring this shell company report

For the transition period from            to

Commission File Number: 001-13372

## KOREA ELECTRIC POWER CORPORATION

*(Exact name of registrant as specified in its charter)*

N/A  
*(Translation of registrant's name into English)*

The Republic of Korea  
*(Jurisdiction of incorporation or organization)*

167 SAMSEONG-DONG, GANGNAM-GU, SEOUL 135-791, KOREA

*(Address of principal executive offices)*

Changyoung Ji, +822 3456 4264, cy\_ji@kepco.co.kr, +822 3456 4299

*(Name, telephone, e-mail and/or facsimile number and address of company contact person)*

### Securities registered or to be registered pursuant to Section 12(b) of the Act:

**Title of each class:**  
Common stock, par value Won 5,000 per share  
American depository shares, each representing  
one-half of share of common stock

**Name of each exchange on which registered:**  
New York Stock Exchange\*  
New York Stock Exchange

\* Not for trading, but only in connection with the listing of American depository shares on the New York Stock Exchange, pursuant to the requirements of the Securities and Exchange Commission.

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

**Securities registered or to be registered pursuant to Section 12(g) of the Act:**

None

**Securities for which there is a reporting obligation pursuant to Section 15(d) of the Act:**

**7 3/4% Debentures due April 1, 2013**

**7.40% Amortizing Debentures, due April 1, 2016**

**7.95% Zero-to-Full Debentures, due April 1, 2096**

**6% Debentures due December 1, 2026**

**7% Debentures due February 1, 2027**

**6 3/4% Debentures due August 1, 2027**

Indicate the number of outstanding shares of each of the issuer's classes of capital or common stock as of the close of the last full fiscal year covered by the annual report:

641,964,077 shares of common stock, par value of Won 5,000 per share

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes  No

If this report is an annual or transition report, indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934. Yes  No

Note: Checking the box above will not relieve any registrant required to file reports pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934 from their obligations under those Sections.

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports) and (2) has been subject to such filing requirements for the past 90 days: Yes  No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files): Yes  No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, or a non-accelerated filer. See definition of accelerated filer and large accelerated filer in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer  Accelerated filer  Non-accelerated filer

Indicate by check mark which basis of accounting the registrant has used to prepare the financial statements included in this filing:

U.S. GAAP  International Financial Reporting Standards as issued by the International Accounting Standards Board  Other

If Other has been checked in response to the previous question, indicate by check mark which financial statement item the registrant has elected to follow. Item 17  Item 18

If this is an annual report, indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes  No

## Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

(APPLICABLE ONLY TO ISSUERS INVOLVED IN BANKRUPTCY PROCEEDINGS DURING THE PAST FIVE YEARS)

Indicate by check mark whether the registrant has filed all documents and reports required to be filed by Sections 12, 13 or 15(d) of the Securities Exchange Act of 1934 subsequent to the distribution of securities under a plan confirmed by a court. Yes " No "

**Table of Contents****TABLE OF CONTENTS**

	<b>Page</b>
<b><u>PART I</u></b>	
ITEM 1. <u>IDENTITY OF DIRECTORS, SENIOR MANAGEMENT AND ADVISERS</u>	2
ITEM 2. <u>OFFER STATISTICS AND EXPECTED TIMETABLE</u>	2
ITEM 3. <u>KEY INFORMATION</u>	2
Item 3A. <u>Selected Financial Data</u>	2
Item 3B. <u>Capitalization and Indebtedness</u>	4
Item 3C. <u>Reasons for the Offer and Use of Proceeds</u>	5
Item 3D. <u>Risk Factors</u>	5
ITEM 4. <u>INFORMATION ON THE COMPANY</u>	17
Item 4A. <u>History and Development of the Company</u>	17
Item 4B. <u>Business Overview</u>	18
Item 4C. <u>Organizational Structure</u>	68
Item 4D. <u>Property, Plant and Equipment</u>	70
ITEM 4A. <u>UNRESOLVED STAFF COMMENTS</u>	70
ITEM 5. <u>OPERATING AND FINANCIAL REVIEW AND PROSPECTS</u>	71
Item 5A. <u>Operating Results</u>	71
Item 5B. <u>Liquidity and Capital Resources</u>	90
Item 5C. <u>Research and Development, Patents and Licenses, etc.</u>	94
Item 5D. <u>Trend Information</u>	95
Item 5E. <u>Off-Balance Sheet Arrangements</u>	95
Item 5F. <u>Tabular Disclosure of Contractual Obligations</u>	96
ITEM 6. <u>DIRECTORS, SENIOR MANAGEMENT AND EMPLOYEES</u>	100
Item 6A. <u>Directors and Senior Management</u>	100
Item 6B. <u>Compensation</u>	103
Item 6C. <u>Board Practices</u>	103
Item 6D. <u>Employees</u>	104
Item 6E. <u>Share Ownership</u>	104
ITEM 7. <u>MAJOR SHAREHOLDERS AND RELATED PARTY TRANSACTIONS</u>	105
Item 7A. <u>Major Shareholders</u>	105
Item 7B. <u>Related Party Transactions</u>	105
Item 7C. <u>Interests of Experts and Counsel</u>	106
ITEM 8. <u>FINANCIAL INFORMATION</u>	107
Item 8A. <u>Consolidated Statements and Other Financial Information</u>	107
Item 8B. <u>Significant Changes</u>	107
ITEM 9. <u>THE OFFER AND LISTING</u>	108
Item 9A. <u>Offer and Listing Details</u>	108
Item 9B. <u>Plan of Distribution</u>	110
Item 9C. <u>Markets</u>	110
Item 9D. <u>Selling Shareholders</u>	113
Item 9E. <u>Dilution</u>	113
Item 9F. <u>Expenses of the Issue</u>	113
ITEM 10. <u>ADDITIONAL INFORMATION</u>	114
Item 10A. <u>Share Capital</u>	114
Item 10B. <u>Memorandum and Articles of Incorporation</u>	114
Item 10C. <u>Material Contracts</u>	121
Item 10D. <u>Exchange Controls</u>	121
Item 10E. <u>Taxation</u>	126
Item 10F. <u>Dividends and Paying Agents</u>	136
Item 10G. <u>Statements by Experts</u>	136
Item 10H. <u>Documents on Display</u>	136
Item 10I. <u>Subsidiary Information</u>	136



**Table of Contents**

	<b>Page</b>
ITEM 11.	<u>QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK</u>
ITEM 12.	<u>DESCRIPTION OF SECURITIES OTHER THAN EQUITY SECURITIES</u>
Item 12A.	<u>Debt Securities</u>
Item 12B.	<u>Warrants and Rights</u>
Item 12C.	<u>Other Securities</u>
Item 12D.	<u>American Depositary Shares</u>
<b><u>PART II</u></b>	144
ITEM 13.	<u>DEFAULTS, DIVIDEND ARREARAGES AND DELINQUENCIES</u>
ITEM 14.	<u>MATERIAL MODIFICATIONS TO THE RIGHTS OF SECURITY HOLDERS AND USE OF PROCEEDS</u>
ITEM 15.	<u>CONTROLS AND PROCEDURES</u>
ITEM 16.	<u>[RESERVED]</u>
ITEM 16A.	<u>AUDIT COMMITTEE FINANCIAL EXPERT</u>
ITEM 16B.	<u>CODE OF ETHICS</u>
ITEM 16C.	<u>PRINCIPAL ACCOUNTANT FEES AND SERVICES</u>
ITEM 16D.	<u>EXEMPTIONS FROM THE LISTING STANDARDS FOR AUDIT COMMITTEE</u>
ITEM 16E.	<u>PURCHASES OF EQUITY SECURITIES BY THE ISSUER AND AFFILIATED PURCHASERS</u>
ITEM 16F.	<u>CHANGE IN REGISTRANT'S CERTIFYING ACCOUNTANTS</u>
ITEM 16G.	<u>CORPORATE GOVERNANCE</u>
ITEM 16H.	<u>MINE SAFETY DISCLOSURE</u>
<b><u>PART III</u></b>	153
ITEM 17.	<u>FINANCIAL STATEMENTS</u>
ITEM 18.	<u>FINANCIAL STATEMENTS</u>
ITEM 19.	<u>EXHIBITS</u>

**Table of Contents**

**CERTAIN DEFINED TERMS AND CONVENTIONS**

All references to Korea or the Republic in this annual report on Form 20-F, or this report, are references to The Republic of Korea. All references to the Government in this report are references to the government of the Republic. All references to we, us, our, ours, the Company, KEPCO in this report are references to Korea Electric Power Corporation and, as the context may require, its subsidiaries, and the possessive thereof, as applicable. All references to the Ministry of Knowledge Economy and the Ministry of Strategy and Finance include the respective predecessors thereof. All references to tons are to metric tons, equal to 1,000 kilograms, or 2,204.6 pounds. Any discrepancies in any table between totals and the sums of the amounts listed are due to rounding. All references to IFRS in this report are references to the International Financial Reporting Standards as issued by the International Accounting Standard Board. Unless otherwise stated, all of our financial information presented in this report has been prepared in accordance with IFRS.

In addition, in this report, all references to:

KHNP are to Korea Hydro & Nuclear Power Co., Ltd.,

EWP are to Korea East-West Power Co., Ltd.,

KOMIPO are to Korea Midland Power Co., Ltd.,

KOSEP are to Korea South-East Power Co., Ltd.,

KOSPO are to Korea Southern Power Co., Ltd., and

KOWEPO are to Korea Western Power Co., Ltd.,  
each of which is our wholly-owned generation subsidiary.

**FORWARD-LOOKING STATEMENTS**

This report includes forward-looking statements (as defined in Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934), including statements regarding our expectations and projections for future operating performance and business prospects. The words believe, expect, anticipate, estimate, project and similar words used in connection with any discussion of our future operating or financial performance identify forward-looking statements. In addition, all statements other than statements of historical facts included in this report are forward-looking statements. Although we believe that the expectations reflected in such forward-looking statements are reasonable, we can give no assurance that such expectations will prove to be correct. We caution you not to place undue reliance on the forward-looking statements, which speak only as of the date of this report.

This report discloses, under the caption Item 3D. Risk Factors and elsewhere, important factors that could cause actual results to differ materially from our expectations ( Cautionary Statements ). All subsequent written and oral forward-looking statements attributable to us or persons acting on our behalf are expressly qualified in their entirety by the Cautionary Statements.



**Table of Contents**

**PART I**

**ITEM 1. IDENTITY OF DIRECTORS, SENIOR MANAGEMENT AND ADVISERS**

Not applicable.

**ITEM 2. OFFER STATISTICS AND EXPECTED TIMETABLE**

Not applicable.

**ITEM 3. KEY INFORMATION**

**Item 3A. Selected Financial Data**

The selected consolidated financial data set forth below as of and for the years ended December 31, 2010 and 2011 have been derived from our audited consolidated financial statements which have been prepared in accordance with IFRS.

Prior to December 31, 2010, we prepared our consolidated financial information in accordance with the Korea Electric Power Corporation Act, the Accounting Regulations for Public Enterprise Associate Government Agency and the generally accepted accounting principles in Korea ( Korean GAAP ). A description of the principal differences between our previous accounting standards and IFRS and the impacts of transition to IFRS is provided in Note 4 to the consolidated financial statements included in this report.

Our consolidated financial statements as of and for the years ended December 31, 2010 and 2011 included in this report have been audited by Deloitte Anjin LLC, a member firm of Deloitte Touche Tohmatsu Limited, a UK private company limited by guarantee. Deloitte Anjin LLC is a Korean independent registered public accounting firm and is our current independent registered public accounting firm.

You should read the following data with the more detailed information contained in Item 5. Operating and Financial Review and Prospects and our consolidated financial statements included in Item 18. Financial Statements. Historical results do not necessarily predict future results.

**Table of Contents****Consolidated Statement of Earnings Data**

	2010	2011 <sup>(1)</sup>	
	(in billions of Won and millions of US\$, except per share data)		
Sales	(Won) 39,507	(Won) 43,532	\$ 37,576
Cost of sales	36,188	43,082	37,188
Gross Profit	3,319	450	388
Other operating income (expense), net	467	451	389
Selling and administrative expenses	1,645	1,752	1,512
Other income (loss)	119	166	144
Operating income (loss)	2,260	(685)	(591)
Finance income (expense), net	(1,967)	(1,911)	(1,650)
Profits of affiliates and joint ventures using equity method	77	123	106
Income (loss) before income taxes	370	(2,473)	(2,135)
Income tax expenses	439	820	708
Net loss for the year	(69)	(3,293)	(2,843)
Other comprehensive loss	(43)	(262)	(226)
Total comprehensive loss	(112)	(3,555)	(3,069)
Net income (loss) attributable to:			
Owners of the Company	(120)	(3,370)	(2,909)
Non-controlling interests	51	77	66
Total comprehensive income (loss) attributable to:			
Owners of the Company	(152)	(3,628)	(3,131)
Non-controlling interests	40	73	62
Earnings (loss) per share			
Basic <sup>(2)</sup>	(193)	(5,411)	(4,671)
Diluted <sup>(3)</sup>	(193)	(5,411)	(4,671)
Earnings (loss) per ADS			
Basic <sup>(2)</sup>	(97)	(2,706)	(2,335)
Diluted <sup>(3)</sup>	(97)	(2,706)	(2,335)
Dividends per share			
<b>Other Data:</b>			
Ratio of earnings to fixed charges <sup>(4)</sup> :	0.9	(0.2)	(0.2)

**Consolidated Statements of Financial Position Data**

	2010	As of December 31,		2011 <sup>(1)</sup>
	(in billions of Won and millions of US\$, except share and per share data)			
Net working capital surplus (deficit) <sup>(5)</sup>	(Won) (916)	(Won) (3,615)	\$ (3,120)	
Property, plant and equipment, net	107,406	112,385	97,009	
Construction in progress	19,253	19,912	17,188	
Total assets	129,518	136,468	117,797	
Total shareholders' equity	57,277	53,804	46,443	
Controlling interest	56,818	53,270	45,982	
Non-controlling interest	459	534	461	
Common stock	3,208	3,210	2,771	
Number of common shares as adjusted to reflect any changes in capital stock	641,567,712	641,964,077	641,964,077	
Long-term debt (excluding current portion)	32,848	39,198	33,835	
Other long term liabilities	25,321	25,725	22,205	

*Notes:*

- (1) The consolidated financial statements are expressed in Korean Won and, solely for the convenience of the reader, the consolidated financial statements as of and for the year ended December 31, 2011, have been translated into United States dollars at the rate of (Won)1,158.5 to USD1.00, the noon buying rate in New York

**Table of Contents**

City for cable transfers in Won as certified for customs purposes by the Federal Reserve Bank of New York as of December 30, 2011. The translation should not be construed as a representation that any or all of the amounts shown could be converted into U.S. dollars at this or any other rate.

- (2) Basic earnings per share are calculated by dividing net income available to holders of our common shares by the weighted average number of common shares issued and outstanding for the relevant period.
- (3) Dilutive earnings per share are calculated in a manner consistent with basic earnings per share, while giving effect to the potential dilution that could occur if convertible securities, options or other contracts to issue common shares were converted into or exercised for common shares.
- (4) For purposes of computing ratios of earnings to fixed charges, earnings consist of income before income taxes and fixed charges. Fixed charges consist of interest expense (including capitalized interest), amortization of bond discount and issue expenses and other ancillary expenses. We believe this ratio is helpful to understand our ability to service our debt with our earnings.
- (5) Net working capital means current assets minus current liabilities.

**Currency Translations and Exchange Rates**

In this report, unless otherwise indicated, all references to Won or (Won) are to the currency of Korea, and all references to U.S. dollars, Dollars, \$ or US\$ are to the currency of the United States of America, all references to Euro or are references to the currency of the European Union, all references to Yen or ¥ are references to the currency of Japan. Unless otherwise indicated, all translations from Won to U.S. dollars were made at Won 1,158.5 to US\$1.00, which was the noon buying rate of the Federal Reserve Board (the Noon Buying Rate) in effect as of December 30, 2011. The source of these rates is the Federal Reserve Bank of New York until December 31, 2008. Since January 1, 2009, the Federal Reserve Bank of New York discontinued publication of foreign exchange rates. The source of the rates since January 1, 2009 is the H.10 statistical release of the Federal Reserve Board. On April 13, 2012, the Noon Buying Rate was Won 1,134.2 to US\$1.00. The exchange rate between the U.S. dollar and Korean Won may be highly volatile from time to time and the U.S. dollar amounts referred to in this report should not be relied upon as an accurate reflection of our results of operations. No representation is made that the Won or U.S. dollar amounts referred to in this report could have been or could be converted into U.S. dollars or Won, as the case may be, at any particular rate or at all.

The following table sets forth, for the periods and dates indicated, certain information concerning the Noon Buying Rate in Won per US\$1.00.

Year Ended December 31,	At End of Period	Average <sup>(1)</sup> (Won per US\$1.00)	High	Low
2007	935.8	929.0	950.2	903.2
2008	1,262.0	1,098.7	1,507.9	935.2
2009	1,163.7	1,274.6	1,570.1	1,149.0
2010	1,130.6	1,155.7	1,253.2	1,104.0
2011	1,158.5	1,106.9	1,197.5	1,049.2
2012 (through April 13)	1,134.2	1,130.1	1,160.0	1,115.7
January	1,125.7	1,140.3	1,160.0	1,120.1
February	1,117.1	1,122.7	1,128.9	1,115.7
March	1,131.4	1,126.2	1,139.8	1,116.0
April (through April 13)	1,134.2	1,133.3	1,143.4	1,122.4

Source: Federal Reserve Bank of New York (for the periods ended on or prior to December 31, 2008) and Federal Reserve Board (for the period since January 1, 2009).

Note:

- (1) Represents the daily average of the Noon Buying Rates during the relevant period.

**Item 3B. Capitalization and Indebtedness**

Not Applicable



---

**Table of Contents**

**Item 3C. Reasons for the Offer and Use of Proceeds**

Not Applicable

**Item 3D. Risk Factors**

*Our business and operations are subject to various risks, many of which are beyond our control. If any of the risks described below actually occurs, our business, financial condition or results of operations could be seriously harmed.*

**Risks Relating to KEPCO**

***Increases in fuel prices will adversely affect our results of operations and profitability as we may not be able to pass on the increased cost to consumers at a sufficient level or on a timely basis.***

Fuel costs constituted 48.2% and 48.7% of our sales and cost of sales, respectively, in 2011. Our generation subsidiaries purchase substantially all of the fuel that they use (except for anthracite coal) from a limited number of suppliers outside Korea at prices determined in part by prevailing market prices in currencies other than Won. For example, most of the bituminous coal requirements (which accounted for approximately 43.5% of our entire fuel requirements in 2011 in terms of electricity output) are imported from a limited number of countries principally consisting of Indonesia and Australia and, to a lesser extent, the United States and Russia, which accounted for approximately 45.9%, 33.5%, 7.9% and 6.8%, respectively, of the annual bituminous coal requirements of our generation subsidiaries in 2011. Approximately 75.9% of the bituminous coal requirements of our generation subsidiaries in 2011 were purchased under long-term contracts and the remaining 24.1% from the spot market. Pursuant to the terms of our long-term supply contracts, prices are adjusted annually based on prevailing market conditions. In addition, our generation subsidiaries purchase a significant portion of their fuel requirements under contracts with limited duration. See Item 4B. Business Overview Fuel.

In recent years, the prices of bituminous coal, oil and liquefied natural gas, or LNG, have fluctuated significantly, resulting in a higher fuel cost to us. For example, the average free on board Newcastle coal price index ranged from US\$72.4 per ton in 2009 to US\$98.8 per ton in 2010 and to US\$120.5 per ton in 2011, and decreased to US\$104.0 per ton as of April 17, 2012. The prices of oil and LNG are substantially dependent on the price of crude oil, and according to Bloomberg (Bloomberg Ticker: PGCRDUBA), the average daily spot price of Dubai crude oil fluctuated from US\$61.7 per barrel in 2009 to US\$78.1 per barrel in 2010 and US\$106.2 per barrel in 2011, and was US\$115.4 per barrel as of April 17, 2012. If fuel prices increase sharply within a short span of time, our generation subsidiaries may be unable to secure requisite fuel supplies at prices commercially acceptable to them. In addition, any significant interruption or delay in the supply of fuel, bituminous coal in particular, from any of their suppliers may cause our generation subsidiaries to purchase fuel on the spot market at prices higher than the prices available under existing supply contracts, resulting in an increase in fuel cost. We cannot assure you that the fuel prices will not significantly increase in the remainder of 2012 or thereafter.

Because the Government regulates the rates we charge for the electricity we sell to our customers (see Item 4B. Business Overview Sales and Customers Electricity Rates ), our ability to pass on fuel and other cost increases to our customers is limited. The increase in fuel prices led to our recording an operating loss in 2011 and a net loss in 2010 and 2011 under IFRS. We expect that a high level of fuel prices will continue to have a material adverse effect on our results of operation in 2012 and beyond. If fuel prices remain at the current level or continue to increase and the Government, out of concern for inflation or for other reasons, maintains the current level of electricity tariff or does not increase it to a level to sufficiently offset the impact of high fuel prices, the fuel price increases will significantly lower our profit margins or even cause us to suffer operating and/or net losses and our business, financial condition, results of operations and cash flows would seriously suffer. In addition, partly because the Government may have to undergo a lengthy deliberative process to approve an increase in electricity tariff, which represents a key component of the consumer price index, the electricity tariff may not be adjusted to a level sufficient to ensure a fair rate of return to us in a timely manner or at all. For

## Table of Contents

example, in August 2010, August 2011 and December 2011, the Government increased the electricity tariff by an average of 3.5%, 4.9% and 4.5%, respectively. However, such increases were insufficient to fully offset the adverse impact from the rise in fuel costs. Similarly, we cannot assure that any future tariff increase by the Government will be sufficient to fully offset the adverse impact on our results of operations from the current or potential rises in fuel costs.

Further to the announcement by the Ministry of Knowledge Economy in February 2010, a new electricity tariff system went into effect on July 1, 2011. This system is designed to overhaul the prior system for determining electricity tariff chargeable to customers by more closely aligning the tariff levels to the movements in fuel prices, with the aim of providing more timely pricing signals to the market regarding the expected changes in electricity tariff levels and encouraging more efficient use of electricity by customers. Previously, the electricity tariff consisted of two components: (i) base rate and (ii) usage rate based on the cost of electricity and the amount of electricity consumed by the end-users. Under the new tariff system, the electricity tariff will also have a third component of fuel cost-adjusted rate, which will be added to or subtracted from the sum of the base rate and the usage rate based on the movements of coal, LNG and oil prices. The fuel cost-related adjustment will be made on a monthly basis based on the three-month average fuel cost which is reflected as fuel-cost adjustment fees two months later. The new tariff system is intended to provide greater financial stability and ensure a minimum return on investment to electricity suppliers, such as us. However, due to inflationary and other policy considerations relating to protecting the consumers from sudden and substantial rises in electricity tariff, the Ministry of Knowledge Economy has for the time being suspended applying the fuel cost-based adjustment, and such adjustment amount (which has been a positive amount since the adoption of the new tariff system due to the continued rise in coal, LNG and oil prices) is currently being recorded as accounts receivable pending the commencement of the application of the fuel cost-based adjustment. There is no assurance as to when the Government will commence applying the fuel cost-based adjustment and reflect the adjustment amount in the electricity tariff payable to us, or whether the new tariff system will undergo further amendments to the effect that it will not fully cover our fuel and other costs on a timely basis or at all, or will not have unintended consequences that we are not presently aware of. Any such development may have a material adverse effect on our business, financial condition, results of operations and cash flows. See Item 4B. Business Overview Recent Developments Implementation of the Fuel Cost-based Tariff System.

***The Government may adopt policy measures to substantially restructure the Korean electric power industry or our operational structure, which may have a material adverse effect on our business, operations and profitability.***

From time to time, the Government considers various policy initiatives to foster efficiency in the Korean electric power industry, and at times have adopted policy measures that have substantially altered our business and operations. For example, in January 1999, with the aim of introducing greater competition in the Korean electric power industry and thereby improving its efficiency, the Government announced a restructuring plan for the Korean electric power industry, or the Restructuring Plan. For a detailed description of the Restructuring Plan, see Item 4B. Business Overview Restructuring of the Electric Power Industry in Korea. As part of this initiative, in April 2001 the Government established the Korea Power Exchange to enable the sale and purchase of electricity through a competitive bidding process, established the Korea Electricity Commission to ensure fair competition in the Korean electric power industry, and, in order to promote competition in electricity generation, split off our electricity generation business to form one nuclear generation company and five non-nuclear generation companies to be wholly-owned by us. In 2002, the Government introduced a plan to privatize one of our five non-nuclear generation subsidiaries, but this plan was suspended indefinitely in 2003 due to prevailing market conditions and other policy considerations.

In 2003, the Government established a Tripartite Commission consisting of representatives of the Government, leading businesses and labor unions in Korea to deliberate on ways to introduce competition in electricity distribution, such as by forming and privatizing new distribution subsidiaries. In 2004, the Tripartite Commission recommended not pursuing such privatization initiatives but instead creating independent business

---

**Table of Contents**

divisions within us to improve operational efficiency through internal competition. Following the adoption of such recommendation by the government in 2004 and further studies by Korea Development Institute, in 2006 we created nine strategic business units (which, together with our other business units, were subsequently restructured into 14 such units in February 2012) that came to have separate management structures (although with limits on its autonomy), financial accounting systems and performance evaluation systems, but with a common focus on maximizing profitability.

On August 25, 2010, the Ministry of Knowledge Economy announced the Proposal for the Improvement in the Structure of the Electric Power Industry, whose key initiatives included the following: (i) maintain the current structure of having six generation subsidiaries, (ii) designate the six generation subsidiaries as market-oriented public enterprises under the Public Agency Management Act in order to foster competition among them and autonomous and responsible management by them, (iii) create a supervisory unit to act as a control tower in reducing inefficiencies created by arbitrary division of labor among the six generation subsidiaries and fostering economies of scale among them and require the presidents of the generation subsidiaries to hold regular meetings, (iv) create a nuclear power export business unit to systematically enhance our capabilities to win projects involving the construction and operation of nuclear power plants overseas, (v) further rationalize the electricity tariff by adopting a fuel-cost based tariff system in 2011 and a voltage-based tariff system in a subsequent year, and (vi) create separate accounting systems for electricity generation, transmission, distribution and sales with the aim of introducing competition in electricity sales in the intermediate future. Pursuant to this Proposal, in December 2010 the Ministry of Knowledge Economy announced guidelines for a cooperative framework between us and our generation subsidiaries, and in January 2011 the five non-nuclear generation subsidiaries formed a joint cooperation unit and transferred their pumped-storage hydroelectric business units to KHNP. Furthermore, in January 2011 the six generation subsidiaries were officially designated as market-oriented public enterprises, whereupon the president of each such subsidiary is required to enter into a management contract directly with the minister of the Ministry of Knowledge Economy, performance evaluation of such subsidiaries is conducted by the Public Enterprise Management Evaluation Commission, and the president and the statutory auditor of each such subsidiary are appointed by the President of Korea while the selection of outside directors is subject to approval by the minister of the Ministry of Strategy and Finance. Previously, the president of each such subsidiary entered into a management contract with our president, performance evaluation of such subsidiaries was conducted by our evaluation committee, and the president and the statutory auditor of each such subsidiary were appointed by, and the selection of outside directors was subject to approval by, our president.

In addition, in order to deal with the shortage of fuel and other resources and also to comply with various environmental standards, the Government has adopted the Renewable Portfolio Standard ( RPS ), under which each generation subsidiary will be required to supply 2.0% and 10.0% of the total energy generated from such subsidiary in the form of renewable energy by 2012 and 2022, respectively, with fines being levied on any unit failing to do so in the prescribed timeline. We currently estimate that, if the RPS is implemented as currently planned, our generation subsidiaries will incur approximately Won 45 trillion in additional capital expenditure over the next 10 years. We expect that such additional capital expenditure will be covered by a corresponding increase in electricity tariff. However, there is no assurance that the Government will in fact raise the electricity tariff to a level sufficient to fully cover such additional capital expenditures or at all. For further details, see Item 4B. Business Overview Renewable Energy.

Other than as set forth above, we are not aware of any specific plan by the Government to resume the implementation of the Restructuring Plan or otherwise change the current structure of the electric power industry or the operations of us or our generation subsidiaries in the near future. However, for reasons relating to changes in policy considerations, socio-political, economic and market conditions and/or other factors, the Government may resume the implementation of the Restructuring Plan or initiate other steps that may change the structure of the Korean electric power industry or the operations of us or our generation subsidiaries. Any such measures may have a negative effect on our business, results of operation and financial condition. In addition, the Government, which beneficially owns a majority of our shares and exercises significant control over our business and



## **Table of Contents**

operations, may from time to time pursue policy initiatives with respect to our business and operations which may vary with the interest and objectives of our other shareholders.

*Our capacity expansion plans, which are based on projections on long-term supply and demand of electricity in Korea, may prove to be inadequate.*

We and our generation subsidiaries make plans for expanding or upgrading our generation capacity based on the Basic Plan Relating to the Long-Term Supply and Demand of Electricity, or the Basic Plan, which is generally announced and revised every two years by the Government. In December 2010, the Government announced the fifth Basic Plan relating to the future supply and demand of electricity. The fifth Basic Plan, which is effective for the period from 2010 to 2024, focuses on, among other things, (i) ensuring that electricity generation conforms to the National Energy Basic Plan relating to the overall energy management policy for Korea, (ii) expanding the base-load generation capacity to promote economical supply of electricity, (iii) preparing contingency planning to cover for, among others, delayed construction of generation facilities, and otherwise ensure stable long-term balance between electricity supply and demand, (iv) tightening supply management from 2011 to 2014 in response to the short-term decrease in facility reserve margins, (v) fostering environmentally friendly electricity sources in line with the planned nationwide reduction in greenhouse gas emission, by giving priority in the construction of nuclear generation facilities and taking other green energy initiatives; (vi) appropriately adjusting the generation capacity expansion and (vii) improving transparency in planning and engaging a greater number of experts in the process of planning future basic plans. We cannot assure that the fifth Basic Plan, or the plans to be subsequently adopted, will successfully achieve their intended goals, the foremost of which is to formulate a capacity expansion plan that will result in balanced overall electricity supply and demand in Korea at an affordable cost to the end users. If there is a significant variance between the actual capacity expansions by us and our generation subsidiaries based on the projected electricity supply and demand and the actual supply and demand, this may result in inefficient use of our capital, mispricing of electricity and undue financing costs on the part of us and our generation subsidiaries, which may have a material adverse effect on our results of operations, financial condition and cash flows.

From time to time, we may experience temporary power shortages or circumstances bordering on power shortages due to factors beyond our control, such as extreme weather conditions. For example, due to extremely cold weather, during the winter of 2010-2011 our electricity reserve level fell to a lower than normal level of 5.5% despite emergency measures mandated by the Government, such as reduced daytime railway services and reduced daytime industrial use of electricity during peak hours. In addition, due to the unanticipated late heat wave in mid-September 2011 and the resulting spike in the use of air conditioning, our reserve level fell to a level that resulted in temporary suspensions of electricity supply across several regions of Korea on that day despite emergency measures by the Government, such as direct load control and voluntary conservation, which prevented a full-scale blackout. On February 9, 2012, our nuclear generation unit Kori-1 experienced a station blackout for approximately 12 minutes during a scheduled maintenance overhaul which began on February 4, 2012 and was scheduled to be completed on March 4, 2012. This incident was reported to the Nuclear Safety and Security Commission on March 12, 2012, which ordered a temporary shut-down of the Kori-1 on March 13, 2012, pending further safety evaluation. These circumstances may lead to increased end-user complaints and greater public scrutiny over our capacity levels, which may in turn result in our need to modify our capacity expansion plans, and if we were to substantially modify our capacity plans, this may result in additional capital expenditures, which may have a material adverse effect on our results of operations, financial condition and cash flows.

In light of these temporary power shortages, the Government has increasingly expanded its efforts to encourage conservation of electricity, including through a public relations campaign, but there is no assurance such efforts will have the desired effect of substantially reducing the demand for electricity or improving efficient use thereof.

---

**Table of Contents**

***The movement of Won against the U.S. dollar and other currencies may have a material adverse effect on us.***

The Won has fluctuated significantly against major currencies in recent years, especially as a result of the recent global financial crisis, including the ongoing fiscal and financial instability surrounding several European countries. See Item 3A. Selected Financial Data Currency Translations and Exchange Rates. Depreciation of Won against U.S. dollar and other foreign currencies typically results in a material increase in the cost of fuel and equipment purchased by us from overseas and the cost of servicing our foreign currency-denominated debt as the prices for substantially all of the fuel materials and a significant portion of the equipment we purchase are denominated in currencies other than Won, generally in U.S. dollars. As of December 31, 2011, approximately 23.2% of our long-term debt (including the current portion and discounts on debentures but excluding premium on debentures) before accounting for swap transactions was denominated in foreign currencies, principally in U.S. dollars, Yen and Euro. Since substantially all of our revenues are denominated in Won, we must generally obtain foreign currencies through foreign-currency denominated financings or from foreign currency exchange markets to make such purchases or service such debt. As a result, any significant depreciation of Won against the U.S. dollar or other major foreign currencies will have a material adverse effect on our profitability and results of operations.

***We may not be successful in implementing new business strategies.***

As part of our overall business strategy, we plan to undertake new, or expand existing, projects such as strengthening of our renewable energy generation capabilities under the Renewable Portfolio Standards initiative, adoption of the smart grid projects to improve the operational efficiency of our electricity transmission and distribution network, and expansion in overseas markets, particularly in the construction and operation of nuclear generation units and procurement of fuels.

Due to their inherent uncertainties, such new and expanded strategic initiatives expose us to a number of risks and challenges, including the following:

new and expanded business activities may require unanticipated capital expenditures and involve additional compliance requirements;

new and expanded business activities may result in less growth or profit than we currently anticipate, and there can be no assurance that such business activities will become profitable at the level we desire or at all;

certain of our new and expanded businesses, particularly in the areas of renewable energy, require substantial government subsidies to become profitable, and such subsidies may be substantially reduced or entirely discontinued;

we may fail to identify and enter into new business opportunities in a timely fashion, putting us at a disadvantage vis-à-vis competitors, particularly in overseas markets; and

we may need to hire or retrain personnel who are able to supervise and conduct the relevant business activities.

As part of our business strategy, we may also seek, evaluate or engage in potential acquisitions, mergers, joint ventures, strategic alliances, restructurings, combinations, rationalizations, divestments or other similar opportunities. The prospects of these initiatives are uncertain, and there can be no assurance that we will be able to successfully implement or grow new ventures, and these ventures may prove more difficult or costly than were originally anticipated. In addition, we regularly review the profitability and growth potential of our existing and new businesses. As a result of such review, we may decide to exit from or to reduce the resources that we allocate to new ventures in the future. There is a risk that these ventures may not achieve profitability or operational efficiencies to the extent originally anticipated, and we may fail to recover investments or expenditures that we have already made. Any of the foregoing may have a material adverse effect on our reputation, business, results of operation, financial condition and cash flows.

**Table of Contents**

*We plan to pursue international expansion opportunities that may subject us to different or greater risk than those associated with our domestic operations.*

While our operations have, to date, been primarily based in Korea, we plan to expand, on a selective basis, our overseas operations in the future. In particular, we plan to further diversify the geographic focus of our operations from Asia to the rest of the world, including the resource-rich Middle East, Australia and Africa as well as expand our project portfolio, which has to-date involved primarily the construction and operation of conventional thermal generation units, to include the construction and operation of nuclear power plants as well as mining and development of fuel sources in order to increase the level of self-sufficiency in the procurement of fuels.

Overseas operations generally carry risks that are different from those we face in our domestic operations. These risks include:

challenges of complying with multiple foreign laws and regulatory requirements, including tax laws and laws regulating our operations and investments;

volatility of overseas economic conditions, including fluctuations in foreign currency exchange rates;

difficulties in enforcing creditors' rights in foreign jurisdictions;

risk of expropriation and exercise of sovereign immunity where the counterparty is a foreign government;

difficulties in establishing, staffing and managing foreign operations;

differing labor regulations;

political and economic instability, natural calamities, war and terrorism;

lack of familiarity with local markets and competitive conditions;

changes in applicable laws and regulations in Korea that affect foreign operations; and

obstacles to the repatriation of earnings and cash.

Any failure by us to recognize or respond to these differences may adversely affect the success of our operations in those markets, which in turn could materially and adversely affect our business and results of operations.

Furthermore, while we seek to enter into business opportunities in a prudent and selective manner, some of our new international business ventures, such as mining and resource exploration, carry risks inherent to such businesses, which are different from our traditional business of electricity power generation, transmission and distribution. While these new businesses in the aggregate currently do not comprise a material portion of our overall business, as we are relatively inexperienced in these types of businesses, the actual revenues and profitability from, and investments and expenditures into, these business ventures may be substantially different from what we planned or anticipated and have a material adverse impact on our overall business, results of operations, financial condition and cash flows.

*The proliferation of a competing system which enables regional districts to independently source electricity would erode our market position and hurt our business, growth prospects, revenues and profitability.*

In July 2004, the Government adopted the Community Energy System to enable regional districts to source electricity from independent power producers to supply electricity without having to undergo the cost-based pool system used by our generation subsidiaries and most independent power producers to distribute electricity nationwide. A supplier of electricity under the Community Energy System must be authorized by the Korea Electricity Commission and be approved by the Minister of Knowledge Economy in accordance with the Electricity Business Act. The purpose of this system is to decentralize electricity supply and thereby reduce

---

**Table of Contents**

transmission costs and improve the efficiency of energy use. These entities do not supply electricity on a national level but are licensed to supply electricity on a limited basis to their respective districts under the Community Energy System. As of March 31, 2012, 14 districts were using this system and one district was preparing to launch it. The generation capacity installed or under construction of the electricity suppliers in these 15 districts amounted to approximately 1% of the aggregate generation capacity of our generation subsidiaries as of March 31, 2012. Since the introduction of the Community Energy System in 2004, a total of 31 districts have obtained the license to supply electricity through the Community Energy System, but 16 of such districts have reportedly abandoned plans to adopt the Community Energy System, largely due to the relatively high level of capital expenditure required, the rise in fuel costs and the lower-than-expected electricity output per cost. However, if the Community Energy System is widely adopted, it will erode our market position in the generation and distribution of electricity in Korea, which is virtually monopolized by us at present, and may have a material adverse effect on our business, growth, revenues and profitability.

***Labor unrest may adversely affect our operations.***

We and each of our generation subsidiaries have separate labor unions. As of December 31, 2011, approximately 69.8% of our and our generation subsidiaries' employees in the aggregate were members of these labor unions. Since the six-week labor strike in 2002 by the union members of our generation subsidiaries in response to the proposed privatization of one of our generation subsidiaries, there has been no material subsequent labor dispute. However, we cannot assure you that there will not be a major labor strike or other disruptions by the labor unions of us and our generation subsidiaries if the Government resumes privatization or other restructuring initiatives or for other reasons, which may adversely affect our business and results of operations.

***Planned relocation of the headquarters of us and our generation subsidiaries may reduce our operational efficiency.***

In June 2005, as part of an initiative to foster balanced economic growth in the provinces, the Government announced a plan to relocate the headquarters of select government-invested enterprises, including us and our six generation and certain other subsidiaries, from the Seoul metropolitan area to other provinces in Korea. Currently, our headquarters and those of our generation subsidiaries are within close vicinity of each other in the City of Seoul. Pursuant to the Government's relocation policy, our headquarters are scheduled to be relocated to Naju in Jeolla Province, which is approximately 300 kilometers south of Seoul. Although the relocation was initially scheduled to occur by the end of 2012, due to construction delays, we currently expect that the relocation will occur by the end of 2014. In addition, the headquarters of certain of our subsidiaries are scheduled to be relocated to various other cities in Korea. See Item 5B. Liquidity and Capital Resources Capital Requirements for further details. While we intend to comply with the relocation plan, there can be no assurance that, following such relocation, we will be able to maintain the current level of operational efficiency due to geographic dispersion of our business units.

***Operation of nuclear power generation facilities inherently involves numerous hazards and risks, any of which could result in a material loss of revenues or increased expenses.***

Through KHNP, we currently operate 21 nuclear-fuel generation units. The operation of nuclear power plants is subject to certain hazards, including environmental hazards such as leaks, ruptures and discharge of toxic and radioactive substances and materials. These hazards can cause personal injuries or loss of life, severe damage to or destruction of property and natural resources, pollution or other environmental damage, clean-up responsibilities, regulatory investigation and penalties and suspension of operations. Nuclear power has a stable and relatively inexpensive cost structure (which is least costly among the fuel types used by our generation subsidiaries) and is the second largest source of Korea's electricity supply, accounting for 31.1% of electricity generated in Korea in 2011. Due to significantly lower unit fuel costs compared to those for conventional power plants, our nuclear power plants are generally operated at full capacity with only routine shutdowns for check-up

## **Table of Contents**

and overhauls lasting 20 to 30 days, with limited exceptions. The breakdown, failure or suspension of operation of a nuclear unit could result in a material loss of revenues, an increase in fuel costs related to the use of alternative power sources, additional repair and maintenance costs, greater risk of litigation and increased social and political hostility to the use of nuclear power, any of which could have a material adverse impact on our financial conditions and results of operation.

Recently, in response to the damage to the nuclear facilities (including nuclear meltdowns) in Japan as a result of the tsunami and earthquake in March 2011, the Government announced plans to further enhance the safety and security of nuclear power facilities, including by establishing the Nuclear Safety Commission in July 2011 for neutral and independent safety appraisals, subjecting nuclear power plants to additional safety inspections by governmental authorities and civic groups and requiring KHNP to prepare a comprehensive safety improvement plan. As a result of the foregoing, as well as a generally higher level of public and regulatory scrutiny of nuclear power facilities in general following the recent nuclear incident in Japan, KHNP plans to implement a significant number of measures to improve the safety and efficiency of its generation facilities for target completion by 2015. We expect to incur additional compliance costs and capital expenditures in relation to our improvement measures, which could have a material adverse impact on our financial conditions and results of operation.

### ***Opposition to the construction and operation of nuclear-fuel generation units may have an adverse effect on us.***

In recent years, we have encountered increasing social and political opposition to the construction and operation of nuclear generation units. Although we and the Government have undertaken various community programs to address concerns of residents in areas near our nuclear units, civic and community opposition to the construction and operation of nuclear units could result in delayed construction or relocation of planned nuclear generation units, which could have a material adverse impact on our business and results of operation. See Item 4B. Business Overview Power Generation Korea Hydro & Nuclear Power Co., Ltd., Community Programs and Insurance.

### ***We are subject to environmental regulations, including in relation to climate change, and our operations could expose us to substantial liabilities.***

We are subject to national, local and overseas environmental laws and regulations, including increasing pressure to reduce emission of carbon dioxide relating to our electricity generation activities as well as our natural resource development endeavors overseas. Our operations could expose us to the risk of substantial liability relating to environmental or health and safety issues, such as those resulting from discharge of pollutants and carbon dioxide into the environment and the handling, storage and disposal of hazardous materials. We may be responsible for the investigation and remediation of environmental conditions at current or former operational sites. We may also be subject to associated liabilities, including liabilities for environmental damage, third party property damage or personal injury resulting from lawsuits brought by governments or private litigants. In the course of our operations, hazardous wastes may be generated at third party-owned or -operated sites, and hazardous wastes may be disposed of or treated at third party-owned or -operated disposal sites. If those sites become contaminated, we could also be held responsible for the cost of investigation and remediation of such sites for any associate environmental damage, as well as for civil or criminal fines or penalties.

We currently operate extensive programs to comply with various environmental regulations, including the Renewable Portfolio Standard program, under which each generation subsidiary will be required to supply 2.0% and 10.0% of the total energy generated from such subsidiary in the form of renewable energy by 2012 and 2022, respectively. Our environmental measures, including the use of environmentally friendly but more expensive parts and equipment and budgeting capital expenditures for the installation of such facilities, may result in increased operating costs and liquidity requirement. The actual cost of installation and operation of such equipment and related liquidity requirement will depend on a variety of factors which may be beyond our

## **Table of Contents**

control. There is no assurance that we will continue to be in material compliance with legal or social standards or requirements in the future in relation to the environment, including in respect of climate change. See Item 4B. Business Overview Environmental Programs and Business Overview Renewable Energy.

### ***The amount and scope of coverage of our insurance are limited.***

Substantial liability may result from the operations of our nuclear generation units, the use and handling of nuclear fuel and possible radioactive emissions associated with such nuclear fuel. KHNP carries insurance for its generation units and nuclear fuel transportation, and we believe that the level of insurance is generally adequate and is in compliance with relevant laws and regulations. In addition, KHNP is the beneficiary of Government indemnity which covers a portion of liability in excess of the insurance. However, such insurance is limited in terms of amount and scope of coverage and does not cover all types or amounts of losses which could arise in connection with the ownership and operation of nuclear plants. Accordingly, material adverse financial consequences could result from a serious accident or a natural disaster to the extent it is neither insured nor covered by the government indemnity.

In addition, our non-nuclear generation subsidiaries carry insurance covering certain risks, including fire, in respect of their key assets, including buildings and equipment located at their respective power plants, construction-in-progress and imported fuel and procurement in transit. Such insurance and indemnity, however, cover only a portion of the assets that the non-nuclear generation subsidiaries own and operate and do not cover all types or amounts of loss that could arise in connection with the ownership and operation of these power plants. In addition, unlike us, our generation subsidiaries are not permitted to self-insure, and accordingly have not self-insured, against risks of their uninsured assets or business. Accordingly, material adverse financial consequences could result from a serious accident to the extent it is uninsured.

In addition, because neither we nor our generation subsidiaries, other than KHNP, carry any insurance against terrorist attacks, an act of terrorism would result in significant financial losses. See Item 4B. Business Overview Insurance.

### ***We may require a substantial amount of additional indebtedness to refinance existing debt and for future capital expenditures.***

We anticipate that additional indebtedness will be required in the coming years in order to refinance existing debt, make capital expenditures for construction of generation plants and other facilities and make acquisitions and investments related to overseas natural resources. While we currently do not expect to face any material difficulties in procuring short-term borrowing to meet our liquidity and short-term capital requirements, the amount of such additional indebtedness may be substantial. We expect that a portion of our long-term debt will need to be paid or refinanced through foreign currency-denominated borrowings and capital raising in international capital markets. Such financing may not be available on terms commercially acceptable to us or at all, especially if the global financial markets experience significant turbulence or a substantial reduction in liquidity.

### ***We may not be able to raise equity capital in the future without the participation of the Government.***

Under applicable laws, the Government is required to directly or indirectly own at least 51.0% of our issued capital stock. As of December 31, 2011, the last day on which our shareholder registry was closed, the Government, directly and through Korea Finance Corporation (a statutory banking institution wholly-owned by the Government), owned 51.1% of our issued capital stock. Accordingly, without changes in the existing Korean law, it may be difficult or impossible for us to undertake, without the participation of the Government, any equity financing in the future (other than sales of treasury stock).

---

**Table of Contents**

**Risks Relating to Korea and the Global Economy**

*Unfavorable financial and economic conditions in Korea and globally may have a material adverse impact on us.*

We are incorporated in Korea, where most of our assets are located and most of our income is generated. As a result, we are subject to political, economic, legal and regulatory risks specific to Korea, and our business, results of operation and financial condition are substantially dependent on the Korean consumers' demand for electricity, which are in turn largely dependent on developments relating to the Korean economy. The Korean economy is closely integrated with, and is significantly affected by, developments in the global economy and financial markets. Recent difficulties affecting the European, U.S. and global financial sectors, adverse conditions and volatility in the worldwide credit and financial markets, fluctuations in oil and commodity prices and the general weakness of the European, U.S. and global economy have increased the uncertainty of global economic prospects in general and have adversely affected, and may continue to adversely affect, the Korean economy. Due to recent liquidity and credit concerns and volatility in the global financial markets, the value of the Won relative to the Dollar has also fluctuated significantly in recent years. Furthermore, as a result of adverse global and Korean economic conditions, there has been continuing volatility in the stock prices of Korean companies. While the rate of deterioration of the global economy slowed in the second half of 2009, with some signs of stabilization and improvement in 2010 and 2011, substantial uncertainties have resurfaced in the form of fiscal and financial sector crisis in several European countries (including Italy, Spain, France, Greece and Portugal), a downgrade in the sovereign or other credit ratings of governments and financial institutions in Europe and the United States and signs of cooling of the Chinese economy, and the overall prospects for the Korean and global economy in 2012 and beyond remain uncertain. While our aggregate financial exposure to the European countries currently being affected by the ongoing fiscal and financial crisis remains less than 1% of our consolidated total assets, any future deterioration of the global economy may have an adverse impact on the Korean economy, which in turn could adversely affect our business, financial condition and results of operations. As Korea's economy is highly dependent on the health and direction of the global economy, investors' reactions to developments in one country can have adverse effects on the securities price of companies in other countries. Factors that determine economic and business cycles of the Korean or global economy are for the most part beyond our control and inherently uncertain. In light of the high level of interdependence of the global economy, any of the foregoing developments could have a material adverse effect on the Korean economy and financial markets, and in turn on our business and profitability.

More specifically, factors that could hurt Korea's economy in the future include, among others:

further deterioration of the fiscal and financial crisis in Europe, downgrades in the sovereign or other credit ratings of the governments and financial institutions in Europe and the United States, which could have adverse effects on the global, and in turn Korean, credit and financial markets;

inflation levels, volatility in foreign currency reserve levels, commodity prices (including oil prices), exchange rates (particularly against the U.S. dollar), interest rates and stock markets and inflows and outflows of foreign capital, either directly, into the stock markets, through derivatives or otherwise;

increased reliance on exports to service foreign currency debts, which could cause friction with Korea's trading partners;

adverse developments in the economies of countries to which Korea exports goods and services (such as China, the United States, and Japan), or in emerging market economies in Asia or elsewhere that could result in a loss of confidence in the Korean economy;

the continued emergence of China, to the extent its benefits (such as increased exports to China) are outweighed by its costs (such as competition in export markets or for foreign investment and relocation of the manufacturing base from Korea to China);

social and labor unrest or declining consumer confidence or spending resulting from lay-offs, increasing unemployment and lower levels of income;





**Table of Contents**

uncertainty and volatility in real estate prices arising, in part, from the Government's policy-driven tax and other regulatory measures;

a decrease in tax revenues and a substantial increase in the Government's expenditures for unemployment compensation and other social programs that together could lead to an increased Government budget deficit;

political uncertainty or increasing strife among or within political parties in Korea, including as a result of the increasing polarization of the positions of the ruling conservative party and the progressive opposition, particularly in light of the general election for National Assembly members in April 2012 and the presidential election scheduled for December 2012;

a deterioration in economic or diplomatic relations between Korea and its trading partners or allies, including such deterioration resulting from trade disputes or disagreements in foreign policy;

any other development that has a material adverse effect in the global economy, such as an act of war, a terrorist act or a breakout of an epidemic such as SARS, avian flu or swine flu;

hostilities involving oil-producing countries in the Middle East and elsewhere and any material disruption in the supply of oil or a material increase in the price of oil resulting from such hostilities; and

an increase in the level of tensions or an outbreak of hostilities in the Korean peninsula.

Any future deterioration of the Korean economy could have an adverse effect on our business, financial condition and results of operation.

***Tensions with North Korea could have an adverse effect on us and the market value of our shares.***

Relations between Korea and North Korea have been tense throughout Korea's modern history. The level of tension between the two Koreas has fluctuated and may increase abruptly as a result of current and future events. In recent years, there have been heightened security concerns stemming from North Korea's nuclear weapons and long-range missile programs and uncertainty regarding North Korea's actions and possible responses from the international community. In April 2009, after launching a long-range rocket over the Pacific Ocean which led to protests from the international community, North Korea announced that it would permanently withdraw from the six-party talks that began in 2003 to discuss Pyongyang's path to denuclearization. On May 25, 2009, North Korea conducted its second nuclear testing by launching several short-range missiles. In response to such actions, the Republic decided to join the Proliferation Security Initiative, an international campaign aimed at stopping the trafficking of weapons of mass destruction, over Pyongyang's harsh rebuke and threat of war. After the United Nations Security Council passed a resolution on June 12, 2009, to condemn North Korea's second nuclear test and impose tougher sanctions such as a mandatory ban on arms exports, North Korea announced that it would produce nuclear weapons and take resolute military actions against the international community. In November 2010, North Korean forces fired artillery shells at Yeonpyeong Island off the west coast of Korea killing four South Koreans. Efforts at multilateral negotiations with North Korea have been made in response to North Korean provocations, but the prospects of such negotiations remain unclear.

There recently has been increased uncertainty about the future of North Korea's political leadership and its implications for the economic and political stability of the region. On December 17, 2011, North Korean officials announced that Kim Jong-il, the North Korean ruler, died of a heart attack. Shortly after his death, his third son, Kim Jong-eun, who is reported to be in his twenties, was named head of the government and military. Kim Jong-eun's succession, including its implications for the politics and economy of North Korea, however, remains uncertain. In addition, North Korea's economy faces severe challenges. For example, on November 30, 2009, North Korea redenominated its currency at a ratio of 100 to 1 as part of its first currency reform in 17 years as a way to control inflation and reduce the income gap among its citizens. In tandem with the currency redenomination, the North Korean government banned the use or possession of foreign currency by its residents

## **Table of Contents**

and closed down privately run markets, which led to severe inflation and food shortages. Such developments may further aggravate social and political tensions within North Korea.

Furthermore, there have been recent military conflicts on the Korean peninsula. On March 26, 2010, the *Cheonan*, a Korean navy ship, sank off the western coast of Korea killing 46 soldiers. An investigation carried out by the Joint Civilian-Military Investigation Group, consisting of investigators from Korea, the United States, Australia, the United Kingdom and Sweden, concluded that the *Cheonan* was sunk by a North Korean torpedo. Also, on November 23, 2010, the North Korean military fired artillery shells onto the Korean island of Yeonpyeong, killing two Korean soldiers and two civilians which set off an exchange of fire between the two sides. Around the end of 2010, the International Criminal Court tentatively concluded that North Korea's sinking of the *Cheonan* and shelling of the island of Yeonpyeong constituted a war crime, and launched a preliminary investigation regarding such incidents. On April 13, 2012, North Korea conducted a failed rocket launch under the premise of placing a satellite in orbit. This launch has been widely criticized by the international community as a veiled attempt by North Korea to further develop its long-range ballistic missile program.

On August 22, 2011, North Korea unilaterally declared that it will legally dispose of all Korean-owned real estate, equipment and raw materials it seized in April 2010 within the Mt. Geumgang resort area (the Geumgang area), concurrent with its seizure and embargo of Korean supplies and assets and its exit order of all employees who were dispatched from Korea (the 2011 Declaration). It is estimated that the value of the assets, including the real estate, owned by the Republic, the Korea Tourism Organization and other private Korean companies in the Geumgang area amount to approximately Won 484.1 billion. Tourism in the Geumgang area has effectively been discontinued since a Korean tourist was shot and killed by a North Korean soldier on July 11, 2008. Currently, the Republic is in the process of considering various options, including legal and diplomatic measures, in response to the 2011 Declaration.

There can be no assurance that the level of tension and instability in the Korean peninsula will not escalate in the future, or that the political regime in North Korea may not suddenly collapse. Any further increase in tension or uncertainty relating to the military or economic stability in the Korean peninsula, including a breakdown of diplomatic negotiations over the North Korean nuclear program, occurrence of military hostilities or heightened concerns about the stability of North Korea's political leadership, could have a material adverse effect on our business, financial condition and results of operation and could lead to a decline in the market value of our common shares and our American depository shares.

***We are generally subject to Korean corporate governance and disclosure standards, which differ in significant respects from those in other countries.***

Companies in Korea, including us, are subject to corporate governance standards applicable to Korean public companies which differ in many respects from standards applicable in other countries, including the United States. As a reporting company registered with the Securities and Exchange Commission and listed on the New York Stock Exchange, we are, and will continue to be, subject to certain corporate governance standards as mandated by the Sarbanes-Oxley Act of 2002, as amended. However, foreign private issuers, including us, are exempt from certain corporate governance standards required under the Sarbanes-Oxley Act or the rules of the New York Stock Exchange. For a description of significant differences in corporate governance standards, see Item 16G. Corporate Governance. There may also be less publicly available information about Korean companies, such as us, than is regularly made available by public or non-public companies in other countries. Such differences in corporate governance standards and less public information could result in less than satisfactory corporate governance practices or disclosure to investors in certain countries.

---

**Table of Contents**

**ITEM 4. INFORMATION ON THE COMPANY**

**Item 4A. History and Development of the Company**

**General Information**

Our legal and corporate name is Korea Electric Power Corporation. We were established by the Government on December 31, 1981 as a statutory juridical corporation in Korea under the Korea Electric Power Corporation ( KEPCO ) Act as the successor to Korea Electric Company. Our registered office is located at 167 Samseong-dong, Gangnam-gu, Seoul, Korea, and our telephone number is 82-2-3456-4264. Our website address is www.kepco.co.kr. Our agent in the United States is Korea Electric Power Corporation, New York Office, located at 7th Floor, 400 Kelby Street, Fort Lee, NJ 07024.

The Korean electric utility industry traces its origin to the establishment of the first electric utility company in Korea in 1898. On July 1, 1961, the industry was reorganized by the merger of Korea Electric Power Company, Seoul Electric Company and South Korea Electric Company, which resulted in the formation of Korea Electric Company. From 1976 to 1981, the Government acquired the private minority shareholdings in Korea Electric Company. After the Government acquired all the remaining shares of Korea Electric Company, Korea Electric Company dissolved, and we were incorporated in 1981 and assumed the assets and liabilities of Korea Electric Company. We ceased to be wholly-owned by the Government in 1989 when the Government sold 21.0% of our common stock. As of December 31, 2011, the last day on which our shareholder registry was closed, the Government maintained 51.1% ownership in aggregate of our common shares by direct holdings by the Government and indirect holdings through Korea Finance Corporation, a statutory banking institution wholly owned by the Government.

Under relevant laws of Korea, the Government is required to own, directly or indirectly, at least 51.0% of our capital. Direct or indirect ownership of more than 50% of our outstanding common stock enables the Government to control the approval of certain corporate matters relating to us that require a shareholders' resolution, including approval of dividends. The rights of the Government and Korea Finance Corporation as holders of our common stock are exercised by the Ministry of Knowledge Economy, based on the Government's ownership of our common stock and a proxy received from Korea Finance Corporation, in consultation with the Ministry of Strategy and Finance.

We operate under the general supervision of the Ministry of Knowledge Economy. The Ministry of Knowledge Economy, in consultation with the Ministry of Strategy and Finance, is responsible for approving, subject to review by the Korea Electricity Commission, the electricity rates we charge our customers. See Item 4B. Business Overview Sales and Customers Electricity Rates. We furnish reports to officials of the Ministry of Knowledge Economy, the Ministry of Strategy and Finance and other Government agencies and regularly consult with such officials on matters relating to our business and affairs. See Item 4B. Business Overview Regulation. Our non-standing directors, who comprise the majority of our board of directors, must be appointed by the Ministry of Strategy and Finance following the review and resolution of the Public Agencies Operating Committee from a pool of candidates recommended by our director nomination committee and must have ample knowledge and experience in business management, and our President must be appointed by the President of the Republic upon the motion of the Ministry of Knowledge Economy following the nomination by our director nomination committee, the review and resolution of the Public Agencies Operating Committee and an approval at the general meeting of shareholders. See Item 6A. Directors and Senior Management Board of Directors.

## Table of Contents

### Item 4B. Business Overview

#### Introduction

We are an integrated electric utility company engaged in the transmission and distribution of substantially all of the electricity in Korea. Through our six wholly-owned generation subsidiaries, we also generate substantially all of the electricity produced in Korea. As of December 31, 2011, we and our generation subsidiaries owned approximately 88.4% of the total electricity generating capacity in Korea (excluding plants generating electricity primarily for private or emergency use). In 2011, we sold to our customers approximately 455 billion kilowatt-hours of electricity. We purchase electricity principally from our generation subsidiaries and to a lesser extent from independent power producers. Of the 477 billion kilowatt-hours of electricity we purchased in 2011, 32.0% was generated by KHNP, our wholly-owned nuclear and hydroelectric power generation subsidiary, 56.9% was generated by our wholly-owned five non-nuclear generation subsidiaries and 11.1% was generated by independent power producers. Our five non-nuclear generation subsidiaries are KOSEP, KOMIPO, KOWEPO, KOSPO, and EWP, each of which is wholly-owned by us and is incorporated in Korea. We derive substantially all of our revenues and profit from Korea, and substantially all of our assets are located in Korea.

In 2011, we had sales of Won 43,532 billion and net loss of Won 3,370 billion (excluding non-controlling interests) compared to sales of Won 39,507 billion and net loss of Won 120 billion (excluding non-controlling interests) in 2010. Our sales increased primarily as a result of a 4.8% increase in kilowatt hours of electricity sold in 2011, which was attributable primarily to the general increase in demand for electricity among consumers in Korea as a result of the economic recovery in 2011 compared to 2010. The increase in the volume of electricity sold was due to a 8.1% increase of electricity sold to the industrial sector, including light power usage, and a 2.1% increase in kilowatt hours of electricity sold to the commercial sector, which more than offset a 0.9% decrease in kilowatt hours of electricity sold to the residential sector. See Item 5A.

#### Operating Results.

Our revenues are closely tied to demand for electricity in Korea. Demand for electricity in Korea increased at a compounded average growth rate ( CAGR ) of 5.5% per annum from 2007 to 2011, compared to the real gross domestic product, or GDP, which increased at a CAGR of 3.5% during the same period, according to The Bank of Korea. The GDP growth rate was 3.6% for 2011 as compared to 6.2% for 2010. Demand for electricity in Korea increased by 4.8% from 2010 to 2011.

#### Strategy

In June 2009, we established a vision for ourselves to become, by 2020, one of the top utility service providers in the world in terms of environmentally-friendly clean energy, with a focus on substantially increasing our revenue, maintaining a fair level of return on investment, further expanding our overseas businesses and upgrading our technologies, including in the area of nuclear plant design. In order to achieve this vision, we have formulated the following strategies:

*Become a global leader in green technology.* With the increasing demand for, and embrace of, environmentally friendly, or green, energy worldwide in substitution of the conventional thermal energy, we believe that green energy represents an important business potential as well as a worthy corporate purpose befitting our status as a provider of public utility. In particular, our green growth initiatives will focus on the following:

- (i) *Development of capabilities to generate electricity with lower carbon emission* We are currently developing, or seek to develop, a standardized integrated gasification combined cycle generation unit, namely a generation unit that uses high-purity gas produced by pressurizing coal or other solid waste at high temperature for generation of electricity with relatively low carbon emission, with an installed capacity of 300 megawatts, a standardized carbon capture and storage facility with an installed capacity of 500 megawatts and a standardized nuclear power generation unit for export purposes.

**Table of Contents**

- (ii) *Improvement in efficiency in our electricity transmission and distribution* We are currently developing, or seek to develop, an intelligent power transmission and distribution network, or smart grids, based on advanced information technology, in order to promote a more efficient allocation and use of electricity by consumers, a superconducting technology that will improve efficiency in the transmission of electricity over such network and localized high-voltage direct current technology that will reduce electricity loss over the course of transmission and distribution.
- (iii) *Participation in the development of green energy infrastructure* We are currently developing, or seek to develop, charging facilities for electric vehicles and standard models for a residential unit that can be powered solely by electricity.

*Capture and expand business opportunities.* We seek to capture business opportunities presented by our leadership in green technology and transmission and distribution technology by developing commercial applications thereof, including by way of developing related information and communication technologies and diversifying our consulting business.

*Expand overseas business.* The primary focus of our overseas business diversification is twofold: (i) leveraging our experience and knowhow gained from our core business of electricity generation in Korea, including nuclear power generation, to capture business opportunities overseas so as to expand our growth potential, and (ii) direct participation in mining and other resource development projects overseas, by way of acquisition or equity investment, in order to facilitate and increase self-sufficiency in fuel procurement. We also plan to expand our geographic focus from Southeast Asia to various other regions in the world, including the resource-rich Middle East, Africa and Australia.

*Advance innovation and operational efficiency.* Promoting innovation and operational efficiency has been and will continue to be an important part of our business strategy. Specifically, we aim to foster further strategic cooperation among our affiliates and adopt innovative management systems that will enhance operational efficiency and cost control.

**Recent Developments**

***Increase in Electricity Tariff Rates***

Effective as of August 1, 2011, the Government increased the electricity rates that we charge to the end-users by an average of 4.9% as further set forth in the following table:

Type of Usage*	Commercial				Industrial			Educational	Agricultural	Street Lighting
	Residential	Low-voltage	High-voltage	Average	Low-voltage	High-voltage	Average			
% increase	2.0	2.3	6.3	4.4	2.3	6.3	6.1	6.3	No change	6.3

\* Tariff on overnight power usage was also increased by 8.0% on all types of usage.

Effective as of December 5, 2011, the Government further increased the electricity rates that we charge to the end-users by an average of 4.5% as further set forth in the following table:

Type of Usage	Commercial				Industrial			Educational	Agricultural	Street Lighting
	Residential	Low-voltage	High-voltage	Average	Low-voltage	High-voltage	Average			
% increase	No change	3.9	5.0	4.5	3.9	6.6	6.5	4.5	No change	6.5

We cannot assure you that such tariff increase will be sufficient to fully offset the adverse impact on our results of operations from the current or future movements in fuel costs.

## **Table of Contents**

### ***Implementation of the Fuel Cost-based Tariff System***

Further to the announcement by the Ministry of Knowledge Economy in February 2010, a new electricity tariff system went into effect on July 1, 2011. This system is designed to overhaul the prior system for determining electricity tariff chargeable to customers by more closely aligning the tariff levels to the movements in fuel prices, with the aim of providing more timely pricing signals to the market regarding the expected changes in electricity tariff levels and encouraging more efficient use of electricity by customers. Previously, the electricity tariff consisted of two components: (i) base rate and (ii) usage rate based on the cost of electricity and the amount of electricity consumed by the end-users. Under the new tariff system, the electricity tariff will also have a third component of fuel cost-adjusted rate, which will be added to or subtracted from the sum of the base rate and the usage rate based on the movements of coal, LNG and oil prices. The fuel cost-related adjustment will be made on a monthly basis based on the three-month average fuel cost which is reflected as fuel-cost adjustment fees two months later.

The new tariff system is intended to provide greater financial stability and ensure a minimum return on investment to electricity suppliers, such as us. However, due to inflationary and other policy considerations relating to protecting the consumers from sudden and substantial rises in electricity tariff, the Ministry of Knowledge Economy has for the time being suspended applying the fuel cost-based adjustment, and such adjustment amount (which has been a positive amount since the adoption of the new tariff system due to the continued rise in coal, LNG and oil prices) is currently being recorded as accounts receivable pending the commencement of the application of the fuel cost-based adjustment. There is no assurance as to when the Government will commence applying the fuel cost-based adjustment and reflect the adjustment amount in the electricity tariff payable to us, or whether the new tariff system will undergo further amendments to the effect that it will not fully cover our fuel and other costs on a timely basis or at all, or will not have unintended consequences that we are not presently aware of. Any such development may have a material adverse effect on our business, financial condition, results of operations and cash flows.

### ***Transfer of Pumped Storage Hydro-electric Units***

Effective January 2011, the pumped-storage hydro-electricity business of each of our five non-nuclear generation subsidiaries, comprising of 16 units with total installed capacity of 4,700 megawatts, were transferred to our nuclear and hydro-electric subsidiary KHNP for greater operational efficiency.

### ***Overseas Activities***

Pursuant to our strategy to diversify and facilitate procurement of fuel sources and expand our overseas activities in general, we and our generation subsidiaries have recently been involved in several acquisition, investment and other operating activities overseas. Our recent overseas activities include:

in September 2011, entering into a joint venture with Megha Engineering & Infrastructures Ltd. to improve the overall power distribution network in Madhya Pradesh, India through a feeder separation program, which includes improvements of transmission lines and installation of power meters in rural areas;

in October 2011, a consortium consisting of our wholly-owned generation subsidiary, KOMIPO, and POSCO Engineering being selected by the City of Boulder as the winning bidder in an auction for the construction and operation of a solar power plant in Nevada, United States;

in November 2011, participating in a joint venture with China Datang Group in the construction and operation of two additional wind-powered electricity generation facilities in Neimenggu and Chaoyang City in Liaoning, China with total generation capacity of approximately 93 megawatts;

in December 2011, entered into an agreement to acquire through our wholly-owned subsidiary, KOMIPO, a 29% equity interest in Navanakorn Electric Co., a Thailand power company, to jointly develop a combined-cycle power plant project in Thailand;





## **Table of Contents**

in January 2012, winning a bid to build, own and operate a 600-megawatts diesel engine power facility in Almanakher, Jordan;

in February 2012, entering into an agreement to acquire a 14% equity interest in Strathmore Minerals Corp. of Canada in relation to a uranium development project in Gas Hills, Wyoming, with an option to acquire up to a maximum of 40% equity interest in Gas Hills; and

in March 2012, entering into an agreement, through our wholly-owned generation subsidiary, KOWEPO, to acquire a 22.7% equity interest in Pioneer Gas Power of India to construct a 388-megawatt gas-powered power facility in Maharashtra, India.

For further details on these activities, see Overseas Activities.

## **Government Ownership and Our Interactions with the Government**

The KEPCO Act requires that the Government own at least 51.0% of our capital stock. Direct or indirect ownership of more than 50.0% of our outstanding common stock enables the Government to control the approval of certain corporate matters which require a shareholders' resolution, including approval of dividends. The rights of the Government and Korea Finance Corporation as holders of our common stock are exercised by the Ministry of Knowledge Economy in consultation with the Ministry of Strategy and Finance. The Government currently has no plan to cease to own, directly or indirectly, at least 51.0% of our outstanding common stock.

We play an important role in the implementation of the Government's national energy policy, which is established in consultation with us, among other parties. As an entity formed to serve public policy goals of the Government, we seek to maintain a fair level of profitability and strengthen our capital base in order to support the growth of our business in the long term.

The Government, through its various policy initiatives for the Korean energy industry as well as direct and indirect supervision of us and our industry, plays an important role in our business and operations. Most importantly, the electricity tariff rates we charge to our customers are established by the Government taking into account, among others, our needs to recover the costs of operations, make capital investments and provide a fair return to our security holders, as well as the Government's overall policy considerations, such as inflation. See Item 4B. Business Overview Sales and Customers Electricity Rates.

In addition, pursuant to the Basic Plan determined by the Government, we and our generation subsidiaries have made, and plan to make, substantial expenditures for the construction of generation plants and other facilities to meet increased demand for electric power. See Item 5B.

Liquidity and Capital Resources Capital Requirements.

## **Restructuring of the Electric Power Industry in Korea**

On January 21, 1999, the Ministry of Knowledge Economy published the Restructuring Plan. The overall objectives of the Restructuring Plan consisted of: (i) introducing competition and thereby increasing efficiency in the Korean electric power industry, (ii) ensuring a long-term, inexpensive and stable electricity supply, and (iii) promoting consumer convenience through the expansion of consumer choice.

The following provides further details relating to the Restructuring Plan.

### ***Phase I***

During Phase I, which served as a preparatory stage for Phase II and lasted from the announcement of the Restructuring Plan in January 1999 until April 2001, we undertook steps to split our generation business units off into one wholly-owned nuclear generation subsidiary (namely, KHNP) and five non-nuclear wholly-owned

## **Table of Contents**

subsidiaries (namely, KOMIPO, KOSEP, KOWEPO, KOSPO and EWP), each with its own management structure, assets and liabilities. These steps were completed upon the approval of the split-off at our shareholders' meeting in April 2001.

The Government's principal objectives in the split-off of the generation units into separate subsidiaries were to: (i) introduce competition and thereby increase efficiency in the electricity generation industry in Korea, and (ii) ensure a stable supply of electricity in Korea.

Following the implementation of Phase I, we retained, until the adoption of the Community Energy System in July 2004 as further discussed in "Transmission and Distribution" below, our monopoly position with respect to the transmission and distribution of electricity in Korea.

While our ownership percentage of the non-nuclear and non-hydroelectric generation subsidiaries will depend on the further adjustments to the Restructuring Plan to be adopted by the Government, we plan to retain 100.0% ownership of both KHNP and our transmission and distribution business.

### ***Phase II***

At the outset of Phase II in April 2001, the Government introduced a cost-based competitive bidding pool system under which we purchase power from our generation subsidiaries and other independent power producers for transmission and distribution to customers. For a further description of this system, see "Purchase of Electricity - Cost-based Pool System" below.

In order to support the logistics of the cost-based pool system, the Government established the Korea Power Exchange in April 2001 pursuant to the Electricity Business Law. The primary function of the Korea Power Exchange is to deal with the sale of electricity and implement regulations governing the electricity market to allow for electricity distribution through a competitive bidding process. The Government also established the Korea Electricity Commission in April 2001 to regulate the Korean electric power industry and ensure fair competition among industry participants. To facilitate this goal, the Korea Power Exchange established the Electricity Market Rules relating to the operation of the bidding pool system. To amend the Electricity Market Rules, the Korea Power Exchange must have the proposed amendment reviewed by the Korea Electricity Commission and then obtain the approval of the Ministry of Knowledge Economy.

The Korea Electricity Commission's main functions include implementation of standards and measures necessary for electricity market operation and review of matters relating to licensing participants in the Korean electric power industry. The Korea Electricity Commission also acts as an arbitrator in tariff-related disputes among participants in the Korean electric power industry and investigates illegal or deceptive activities of the industry participants.

### ***Privatization of Non-nuclear Generation Subsidiaries***

In April 2002, the Ministry of Knowledge Economy released the basic privatization plan for five of our generation subsidiaries other than KHNP. Pursuant to this plan, we commenced the process of selling our equity interest in KOSEP in 2002. According to the original plan, this process was, in principle, to take the form of a sale of management control, potentially supplemented by an initial public offering as a way of broadening the investor base. In November 2003, KOSEP submitted its application to the Korea Exchange for a preliminary screening review, which was approved in December 2003. However, in June 2004, KOSEP made a request to the Korea Exchange to delay its stock listing due to unfavorable stock market conditions at that time. We may resume the stock listing process for KOSEP in due course, after taking into consideration the overall stock market conditions and other pertinent matters. The aggregate foreign ownership of our generation subsidiaries is limited to 30.0% of total power generation capacity in Korea. In consultation with us, the Government will determine the size of the ownership interest to be sold and the timing of such sale, with a view to encouraging competition and assuring adequate electricity supply and debt service capability.

## **Table of Contents**

We believe the Government currently has no specific plans to resume the public offering of KOSEP or commence the same for any of our other generation subsidiaries in the near future. However, we cannot assure that our generation subsidiaries will not become part of Government-led privatization initiatives in the future for reasons relating to a change in Government policy, economic and market conditions and/or other factors.

### ***Suspension of the Plan to Form and Privatize Distribution Subsidiaries***

In 2003, the Government established a Tripartite Commission consisting of representatives of the Government, leading businesses and labor unions in Korea to deliberate on ways to introduce competition in electricity distribution, such as by forming and privatizing new distribution subsidiaries. In 2004, the Tripartite Commission recommended not pursuing such privatization initiatives but instead creating independent business divisions within us to improve operational efficiency through internal competition. Following the adoption of such recommendation by the Government in 2004 and further studies by Korea Development Institute, in 2006 we created nine strategic business units (which, together with our other business units, were subsequently restructured into 14 such units in February 2012) that came to have separate management structures (although with limits on its autonomy), financial accounting systems and performance evaluation systems, but with a common focus on maximizing profitability.

### ***Initiatives to Improve the Structure of Electricity Generation***

In 2009, the Government commissioned Korea Development Institute to undertake a study addressing concerns regarding inefficiencies in the cost structure of electricity generation, including by potentially consolidating one or more of our generation subsidiaries or merging them with us. On August 25, 2010, based on this study and deliberations with various interested parties, the Ministry of Knowledge Economy announced the Proposal for the Improvement in the Structure of the Electric Power Industry, whose key initiatives include the following: (i) maintain the current structure of having six generation subsidiaries, (ii) designate the six generation subsidiaries as market-oriented public enterprises under the Public Agency Management Act in order to foster competition among them and autonomous and responsible management by them, (iii) create a supervisory unit to act as a control tower in reducing inefficiencies created by arbitrary division of labor among the six generation subsidiaries and fostering economies of scale among them and require the presidents of the generation subsidiaries to hold regular meetings, (iv) create a nuclear power export business unit to systematically enhance our capabilities to win projects involving the construction and operation of nuclear power plants overseas, (v) further rationalize the electricity tariff by adopting a fuel-cost based tariff system in 2011 and a voltage-based tariff system in a subsequent year, and (vi) create separate accounting systems for electricity generation, transmission, distribution and sales with the aim of introducing competition in electricity sales in the intermediate future.

Pursuant to this Proposal, in December 2010 the Ministry of Knowledge Economy announced guidelines for a cooperative framework between us and our generation subsidiaries, and in January 2011 the five non-nuclear generation subsidiaries formed a joint cooperation unit and transferred their pumped-storage hydroelectric business units to KHNP. Furthermore, in January 2011 the six generation subsidiaries were officially designated as market-oriented public enterprises, whereupon the president of each such subsidiary is required to enter into a management contract directly with the minister of the Ministry of Knowledge Economy, performance evaluation of such subsidiaries is conducted by the Public Enterprise Management Evaluation Commission, and the president and the statutory auditor of each such subsidiary are appointed by the President of Korea while the selection of outside directors is subject to approval by the minister of the Ministry of Strategy and Finance. Previously, the president of each such subsidiary entered into a management contract with our president, performance evaluation of such subsidiaries was conducted by our evaluation committee, and the president and the statutory auditor of each such subsidiary were appointed by, and the selection of outside directors was subject to approval by, our president.

## **Table of Contents**

### **Purchase of Electricity**

#### *Cost-based Pool System*

Since April 2001, the purchase and sale of electricity in Korea is required to be made through the Korea Power Exchange, which is a statutory not-for-profit organization established under the Electricity Business Act with responsibilities for setting the price of electricity, handling the trading and collecting relevant data for the electricity market in Korea. The suppliers of electricity in Korea consist of our six generation subsidiaries, which were spun off from us in April 2001, and independent power producers, which numbered 411 as of December 31, 2011. We distribute electricity purchased through the Korea Power Exchange to the end users.

#### *Our Relationship with the Korea Power Exchange*

We have certain relationships with the Korea Power Exchange as follows: (i) we and our six generation subsidiaries are member corporations of the Korea Power Exchange and collectively own 100.0% of its share capital, (ii) three of the 10 members of the board of directors of the Korea Power Exchange are currently our or our subsidiaries' employees, and (iii) one of our employees is currently a member in three of the key committees of the Korea Power Exchange that are responsible for evaluating the costs of producing electricity, making rules for the Korea Power Exchange and gathering and disclosing information relating to the Korean electricity market.

Notwithstanding the foregoing relationships, however, we do not have control over the Korea Power Exchange or its policies since, among others, (i) the Korea Power Exchange, its personnel, policies, operations and finances are closely supervised and controlled by the Government, namely through the Ministry of Knowledge Economy, and are subject to a host of laws and regulations, including, among others, the Electricity Business Act and the Public Agencies Management Act, as well as the Articles of Incorporation of the Korea Power Exchange, (ii) we are entitled to elect no more than one-third of the Korea Power Exchange directors and our representatives represent only a minority of its board of directors and committees (with the other members being comprised of representatives of the Ministry of Knowledge Economy, employees of the Korea Power Exchange, businesspersons and/or scholars), and (iii) the role of our representatives in the policy making process for the Korea Power Exchange is primarily advisory based on their technical expertise derived from their employment at us or our generation subsidiaries. Consistent with this view, the Finance Supervisory Service issued a ruling on April 12, 2005 that stated that we are not deemed to have significant influence or control over the decision-making process of the Korea Power Exchange relating to its business or financial affairs.

#### *Pricing Factors*

The price of electricity in the Korean electricity market is determined principally based on the cost of generating electricity using a system known as the cost-based pool system. Under the cost-based pool system, the price of electricity has two principal components, namely the marginal price (representing in principle the variable cost of generating electricity) and the capacity price (representing in principle the fixed cost of generating electricity).

#### *Marginal Price*

The primary purpose of the marginal price is to compensate the generation companies for fuel costs, which represents the principal component of the variable costs of generating electricity. The concept of marginal price under the cost-based pool system has undergone several changes in recent years in large part due to the sharp fluctuations in fuel prices. For example, prior to December 31, 2006, the marginal price operated on a two-tiered structure, namely, a base load marginal price applicable to electricity generated from nuclear fuels and coals, which tend to be less expensive per unit of electricity than electricity generated from liquefied natural gas, oil and hydroelectric power to which a non-base load marginal price applied. The base load marginal price and the non-base load marginal price were generally set at levels so that electricity generated from cheaper fuels could be utilized first while ensuring a relatively fair rate of return to all generation units. However, when the price of coal

**Table of Contents**

rose sharply beginning in the second half of 2006, the pre-existing base load marginal price was abolished and a market cap by the name of regulated market price was introduced in its stead for electricity generated from base load fuels, with the regulated market price being set at a level higher than the pre-existing base load marginal price in order to compensate the generation subsidiaries for the rapid rise in the price of coal. However, when the price of coal continued to rise sharply above the level originally assumed in setting the regulated market price, this had the effect of undercutting our profit margin as the purchaser of electricity from our generation subsidiaries, although the generation subsidiaries were able to maintain a better margin under the regulated market price regime than under the pre-existing base load marginal price regime. Accordingly, on May 1, 2008, the regulated market price regime was abolished, and the current system of system marginal price was introduced in order to set the marginal price in a more flexible way by using the concept of an adjusted coefficient tailored to each fuel type.

Under the system marginal price regime currently in effect, the marginal price of electricity at which our generation subsidiaries sell electricity to us is determined using the following formula:

Variable cost + [System marginal price - Variable cost] \* Adjusted coefficient

The system marginal price represents, in effect, the marginal price of electricity at a given hour at which the projected demand for electricity and the projected supply of electricity for such hour intersect, as determined by the merit order system, which is a system used by the Korea Power Exchange to allocate which generation units will supply electricity for which hour and at what price. To elaborate, the projected demand for electricity for a given hour is determined by the Korea Power Exchange based on a forecast made one day prior to trading, and such forecast takes into account, among others, historical statistics relating to demand for electricity nationwide by day and by hour, after taking into account, among others, seasonality and peak-hour versus non-peak hour demand analysis. The projected supply of electricity at a given hour is determined as the aggregate of the available capacity of all generation units that have submitted bids to supply electricity for such hour. These bids are submitted to the Korea Power Exchange one day prior to trading.

Under the merit order system, the generation unit with the lowest variable cost of producing electricity among all the generation units that have submitted a bid for a given hour is first awarded a purchase order for electricity up to the available capacity of such unit as indicated in its bid. The generation unit with the next lowest variable cost is then awarded a purchase order up to its available capacity in its bid, and so forth, until the projected demand for electricity for such hour is met. We refer to the variable cost of the generation unit that is the last to receive the purchase order for such hour as the system marginal price, which also represents the most expensive price at which electricity can be supplied at a given hour based on the demand and supply for such hour. Generation units whose variable costs exceed the system marginal price for a given hour do not receive purchase orders to supply electricity for such hour. The variable cost of each generation unit is determined by the Cost Evaluation Committee on a monthly basis and reflected in the following month based on the fuel costs as of two months prior to such determination. The final allocation of electricity supply, however, is further adjusted on the basis of other factors, including the proximity of a generation unit to the geographical area to which power is being supplied, network and fuel constraints and the amount of power loss.

The purpose of the merit order system is to encourage generating units to reduce its electricity generation costs by making its generation process more efficient, sourcing fuels from most cost-effective sources or adopting other cost savings programs. The additional adjustment mechanism is designed to improve the overall cost-efficiency in the distribution and transmission of electricity to the end-users by adjusting for losses arising from the distribution and transmission process.

Under the merit order system, the electricity purchase allocation, the system marginal price and the final allocation adjustment are automatically determined based on an objective formula. The adjusted coefficient, the capacity price and the variable costs are determined in advance of trading by the Cost Evaluation Committee. Accordingly, a supplier of electricity cannot exercise control over the merit order system or its operations to such supplier's strategic advantage.

## **Table of Contents**

The adjusted coefficient applies uniformly to all generation units that use the same type of fuel, and is generally higher for generation units that use fuel types that inherently entail higher construction and maintenance costs, such as nuclear plants. The adjusted coefficient is determined by the Cost Evaluation Committee in principle on an annual basis, although in exceptional cases driven by external factors such as fuel costs and electricity tariff rates, the adjusted coefficient may be adjusted on a quarterly basis.

### *Capacity Price*

In addition to payment in respect of the variable cost of generating electricity, our generation subsidiaries receive payment in the form of capacity price, the purpose of which is to compensate them for the costs of constructing generation facilities and to provide incentives for new construction. The capacity price is determined annually by the Cost Evaluation Committee based on the construction costs and maintenance costs of a standard generation unit and is paid to each generation company for the amount of available capacity indicated in the bids submitted the day before trading. From time to time, the capacity price is adjusted in ways to soften the impact of changes in the marginal price over time based on the expected rate of return for our generational subsidiaries. Currently, the capacity price is Won 7.46/kWh and since January 1, 2012 has applied equally to all generation units, regardless of fuel types used.

Effective as of January 1, 2007, a regionally differentiated capacity price system was introduced by setting a standard capacity reserve margin in the range of 12.0% to 20.0% in order to prevent excessive capacity build-up as well as induce optimal capacity investment at the regional level. The capacity reserve margin is the ratio of peak demand to the total available capacity. Under this system, generation units in a region where available capacity is insufficient to meet demand for electricity as evidenced by a failure to meet the standard capacity reserve margin receive increased capacity price. Conversely, generation units in a region where available capacity exceeds demand for electricity as evidenced by satisfaction of the standard capacity reserve margin receive reduced capacity price. Other than the foregoing region-based variations, the capacity price generally applies uniformly to all generation units regardless of fuel types used.

Following the suspension of the plan to form separate distribution subsidiaries through privatization (see Restructuring of the Electric Power Industry in Korea Suspension of the Plan to Form and Privatize Distribution Subsidiaries ), there was a discussion of replacing the current cost-based pool system with a more market-oriented system known as a two-way bidding pool system. Under the two-way bidding pool system, a pool of generating companies on the supply side and a pool of retail distributors on the demand side would each make a bid based on which the electricity price will be determined, which would contrast with the current system where we have a virtual monopoly of the demand side as the purchaser and distributor of substantially all of electricity in Korea. However, we believe that due to the indefinite suspension of the restructuring plan, the two-way bidding pool system is unlikely to be adopted in the near future absent any unexpected change in government policy.

**Table of Contents****Power Trading Results**

The results of power trading, as effected through the Korea Power Exchange, for our generation subsidiaries for the year ended December 31, 2011 are as follows:

	Items	Volume (Gigawatt hours)	Percentage of Total Volume (%)	Sales to KEPCO (in billions of Won)	Percentage of Total Sales (%)	Unit Price (Won/kWh)
Generation Companies	KHNP	152,343	33.0	6,556	17.8	43.0
	KOSEP	58,002	12.6	4,311	11.7	74.3
	KOMIPO	51,322	11.1	4,996	13.6	97.4
	KOWEPO	52,870	11.4	5,188	14.1	98.1
	KOSPO	58,049	12.6	5,899	16.0	101.6
	EWP	51,088	11.0	4,699	12.8	92.0
	Others <sup>(1)</sup>	38,386	8.3	5,172	14.0	134.8
	Total	462,060	100.0	36,821	100.0	79.7
Energy Sources	Nuclear	147,667	31.9	5,789	15.7	39.2
	Bituminous coal	185,658	40.2	12,480	33.9	67.2
	Anthracite coal	7,772	1.7	767	2.1	98.6
	Oil	9,563	2.1	2,160	5.9	225.9
	LNG	2,477	0.5	463	1.2	187.0
	Combined-cycle	93,483	20.2	13,205	35.9	141.3
	Hydro	4,119	0.9	561	1.5	136.2
	Pumped-storage	3,212	0.7	567	1.5	176.4
	Others	8,109	1.8	829	2.3	102.2
	Total	462,060	100.0	36,821	100.0	79.7
Load	Base load	337,768	73.1	18,618	50.6	55.1
	Non-base load	124,292	26.9	18,203	49.4	146.5
	Total	462,060	100.0	36,821	100.0	79.7

Note:

(1) Others represent independent power producers that trade electricity through the cost-based pool system of power trading.

**Power Purchased from Independent Power Producers**

In 2011, we purchased an aggregate of 14,638 gigawatt hours of electricity generated by independent power producers under existing power purchase agreements. These purchases were made outside of the cost-based pool system of power trading. These independent power producers had an aggregate generating capacity of 3,941 megawatts as of December 31, 2011.

**Power Generation**



## Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

As of December 31, 2011, we and our generation subsidiaries had a total of 503 generation units, including nuclear, thermal, hydroelectric and internal combustion units, representing total installed generating capacity of 67,005 megawatts. Our thermal units produce electricity using steam turbine generators fired by coal and oil. Internal combustion units are diesel-fired gas turbine and combined-cycle units. Combined-cycle units consist of either LNG-fired combined-cycle units or oil-fired combined-cycle units. We also purchase power from several generation plants not owned by our generation subsidiaries.

**Table of Contents**

The table below sets forth as of and for the year ended December 31, 2011 the number of units, installed capacity and the average capacity factor for each type of generating facilities owned by our generation subsidiaries.

	Number of Units	Installed Capacity <sup>(1)</sup> (Megawatts)	Average Capacity Factor <sup>(2)</sup> (Percent)
Nuclear	21	18,716	90.7
Thermal:			
Coal	51	24,205	92.7
Oil	19	4,478	23.7
LNG	4	888	29.6
Total thermal	74	29,571	80.4
Internal combustion	172	356	39.9
Combined-cycle	97	12,936	66.4
Hydro	67	5,329	13.6
Wind	31	67	34.7
Solar	37	24	15.4
Fuel cell	4	6	58.6
Total	503	67,005	76.5

*Notes:*

- (1) Installed capacity represents the level of output that may be sustained continuously without significant risk of damage to plant and equipment.
- (2) Average capacity factor represents the total number of kilowatt hours of electricity generated in the indicated period divided by the total number of kilowatt hours that would have been generated if the generation units were continuously operated at installed capacity, expressed as a percentage.

The expected useful life of a unit, assuming no substantial renovation, is approximately as follows: nuclear, over 40 years; thermal, over 30 years; internal combustion, over 25 years; and hydroelectric, over 55 years. Substantial renovation can extend the useful life of thermal units by up to 20 years.

We seek to achieve efficient use of fuels and diversification of generating capacity by fuel type. In the past, we relied principally upon oil-fired thermal generation units for electricity generation. Since the oil shock in 1974, however, Korea's power development plans have emphasized the construction of nuclear generation units. While nuclear units are more expensive to construct than non-nuclear units of comparable capacity, nuclear fuel is less expensive than fossil fuels in terms of electricity output per unit cost. However, efficient operation of nuclear units requires that such plants be run continuously at relatively constant energy output levels. As it is impractical to store large quantities of electrical energy, we seek to maintain nuclear power production capacity at approximately the level at which demand for electricity is continuously stable. During those times when actual demand exceeds the level of continuous demand, we rely on units fired by fossil fuels and hydroelectric units, which can be started and shut down more quickly and efficiently than nuclear units, to meet the excess demand. Bituminous coal is currently the least expensive thermal fuel per kilowatt-hour of electricity produced, and therefore we seek to maximize the use of bituminous coal for generation needs in excess of the stable demand level, except for meeting short-term surges in demand which require rapid start-up and shutdown. Thermal units fired by LNG, hydroelectric units and internal combustion units are the most efficient types of units for rapid start-ups and shutdowns, and therefore we use such units principally to meet short-term surges in demand. Anthracite coal is a less efficient fuel source than bituminous coal in terms of electricity output per unit cost.

## Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Our generation subsidiaries have constructed and recommissioned thermal and internal combustion units in order to help meet power demand. Subject to market conditions, our generation subsidiaries plan to continue to add additional thermal and internal combustion units. These units generally take less time to complete construction than nuclear units.

**Table of Contents**

The high average age of our oil-fired thermal units is attributable to our reliance on oil-fired thermal units as the primary means of electricity generation until mid-1970s. Since then, we have diversified our fuel sources and constructed relatively few oil-fired thermal units compared to units of other fuel types.

The table below sets forth, for the periods indicated, the amount of electricity generated by facilities linked to our grid system and the amount of power used or lost in connection with transmission and distribution.

	2007	2008	2009	2010	2011	% of 2011 Gross Generation <sup>(1)</sup>
	(in gigawatt hours, except percentages)					
Electricity generated by generation subsidiaries:						
Nuclear	142,937	150,958	147,771	148,596	154,723	31.1
Thermal:						
Coal	155,684	174,156	193,803	198,287	199,516	40.2
Oil	15,703	7,981	11,970	10,874	9,501	1.9
LNG	2,028	1,518	762	2,288	2,233	0.4
<b>Total thermal</b>	<b>173,415</b>	<b>183,655</b>	<b>206,535</b>	<b>211,449</b>	<b>211,205</b>	<b>42.5</b>
Internal combustion	579	503	697	731	821	0.2
Combined-cycle	60,465	55,909	47,580	70,081	71,624	14.4
Hydro	2,779	3,836	4,091	4,393	4,815	1.0
Wind	21	53	82	91	117	0.0
Solar and fuel cells	5	15	24	44	60	0.0
<b>Total generation</b>	<b>380,201</b>	<b>394,929</b>	<b>406,780</b>	<b>435,384</b>	<b>443,409</b>	<b>89.2</b>
Electricity purchased from others:						
Thermal	20,660	25,699	25,274	37,197	50,468	10.2
Hydro	2,263	1,727	1,550	2,079	3,016	0.6
<b>Total purchased</b>	<b>22,923</b>	<b>27,426</b>	<b>26,824</b>	<b>39,276</b>	<b>53,484</b>	<b>10.8</b>
<b>Gross generation</b>	<b>403,124</b>	<b>422,355</b>	<b>433,604</b>	<b>474,660</b>	<b>496,893</b>	<b>100.0</b>
Auxiliary use <sup>(2)</sup>	16,613	17,374	18,258	19,564	19,986	4.0
Pumped-storage <sup>(3)</sup>	1,817	3,243	3,713	3,663	4,257	0.9
<b>Total net generation<sup>(4)</sup></b>	<b>384,694</b>	<b>401,726</b>	<b>411,631</b>	<b>451,433</b>	<b>472,650</b>	<b>95.1</b>
Transmission and distribution losses <sup>(5)</sup>	15,345	16,106	16,770	18,034	17,430	

*Notes:*

- (1) Unless otherwise indicated, percentages are based on gross generation.
- (2) Auxiliary use represents electricity consumed by generation units in the course of generation.
- (3) Pumped-storage represents electricity consumed during low demand periods in order to store water which is utilized to generate hydroelectric power during peak demand periods.
- (4) Total net generation is gross generation minus auxiliary and pumped-storage use.
- (5)

## Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Our transmission and distribution loss in 2011, calculated as the ratio of total transmission and distribution losses to total net generation, was 3.7%.

The table below sets forth our total capacity at the end of, and peak and average loads during, the indicated periods.

	2007	2008	2009	2010	2011
			(Megawatts)		
Total capacity	68,268	72,491	73,470	76,078	76,649
Peak load	62,285	62,794	66,797	71,308	73,137
Average load	46,019	48,082	49,498	54,185	56,619

**Table of Contents*****Korea Hydro & Nuclear Power Co., Ltd.***

We commenced nuclear power generation activities in 1978 when our first nuclear generation unit, Kori-1, began commercial operation. On April 2, 2001, we transferred all of our nuclear and hydroelectric power generation assets and liabilities to KHNP.

KHNP owns and operates 21 nuclear generation units at four power plant complexes in Korea, located in Kori, Wolsong, Yonggwang and Ulchin, 51 hydroelectric generation units including 16 pumped storage hydro generation units as well as two solar generation units and one wind generation unit as of December 31, 2011.

The table below sets forth the number of units and installed capacity as of December 31, 2011 and the average capacity factor by types of generation units in 2011.

	Number of Units	Installed Capacity <sup>(1)</sup> (Megawatts)	Average Capacity Factor <sup>(2)</sup> (Percent)
Nuclear	21	18,716	90.7
Hydroelectric	51	5,303	11.5
Wind	1	0.8	7.9
Solar	2	3	13.2
Total	75	24,022	

*Notes:*

- (1) Installed capacity represents the level of output that may be sustained continuously without significant risk of damage to plant and equipment.
- (2) Average capacity factor represents the total number of kilowatt hours of electricity generated in the indicated period divided by the total number of kilowatt hours that would have been generated if the generation units were continuously operated at installed capacity, expressed as a percentage.

The Shin-Kori-1, with a 1,000 megawatt capacity, commenced commercial operation on February 28, 2011. We are currently building seven additional nuclear generation units, consisting of three units each with a 1,000 megawatt capacity and four units each with a 1,400 megawatt capacity at the Shin-Kori, Shin-Wolsong and Shin-Ulchin sites, respectively. We expect to complete these units between 2012 and 2018. In addition, we plan to build four additional nuclear units, each with a 1,400 megawatt capacity, at the Shin-Kori and Shin-Ulchin sites between 2018 and 2021.

**Table of Contents***Nuclear*

The table below sets forth certain information with respect to the nuclear generation units of KHNP as of December 31, 2011.

<b>Unit</b>	<b>Reactor Type<sup>(1)</sup> (Megawatts)</b>	<b>Reactor Design<sup>(2)</sup></b>	<b>Turbine and Generation<sup>(3)</sup></b>	<b>Commencement of Operations</b>	<b>Installed Capacity</b>
Kori-1	PWR	W	GEC, Hitachi, D	1978	587
Kori-2	PWR	W	GEC	1983	650
Kori-3	PWR	W	GEC, Hitachi	1985	950
Kori-4	PWR	W	GEC, Hitachi	1986	950
Shin-Kori-1	PWR	D, KOPEC, W	D, GE	2011	1,000
Wolsong-1	PHWR	AECL	P	1983	679
Wolsong-2	PHWR	AECL, H, K	H, GE	1997	700
Wolsong-3	PHWR	AECL, H	H, GE	1998	700
Wolsong-4	PHWR	AECL, H	H, GE	1999	700
Yonggwang-1	PWR	W	W, D	1986	950
Yonggwang-2	PWR	W	W, D	1987	950
Yonggwang-3	PWR	H, CE, K	H, GE	1995	1,000
Yonggwang-4	PWR	H, CE, K	H, GE	1996	1,000
Yonggwang-5	PWR	D, CE, W, KOPEC	D, GE	2002	1,000
Yonggwang-6	PWR	D, CE, W, KOPEC	D, GE	2002	1,000
Ulchin-1	PWR	F	A	1988	950
Ulchin-2	PWR	F	A	1989	950
Ulchin-3	PWR	H, CE, K	H, GE	1998	1,000
Ulchin-4	PWR	H, CE, K	H, GE	1999	1,000
Ulchin-5	PWR	D, KOPEC, W	D, GE	2004	1,000
Ulchin-6	PWR	D, KOPEC, W	D, GE	2005	1,000
Total nuclear					18,716

*Notes:*

- (1) PWR means pressurized light water reactor; PHWR means pressurized heavy water reactor.
- (2) W means Westinghouse Electric Company (U.S.A.); AECL means Atomic Energy Canada Limited (Canada); F means Framatome (France); H means Hanjung; CE means Combustion Engineering (U.S.A.); D means Doosan Heavy Industries; K means Korea Atomic Energy Research Institute.
- (3) GEC means General Electric Company (UK); P means Parsons (Canada and UK); W means Westinghouse Electric Company (U.S.A.); A means Alstom (France); H means Hanjung; GE means General Electric (U.S.A.); D means Doosan Heavy Industries; Hitachi means Hitachi Ltd. (Japan).

**Table of Contents**

The table below sets forth the average capacity factor and average fuel cost per kilowatt for 2011 with respect to each nuclear generation unit of KHNP.

Unit	Average Capacity Factor (Percent)	Average Fuel Cost Per kWh (Won)
Kori-1	87.9	4.9
Kori-2	98.8	5.0
Kori-3	90.7	4.6
Kori-4	92.9	4.7
Shin-Kori-1	100.0	6.0
Wolsong-1	49.3	12.8
Wolsong-2	99.6	5.9
Wolsong-3	97.5	6.7
Wolsong-4	94.3	6.9
Yonggwang-1	101.1	4.8
Yonggwang-2	92.0	4.3
Yonggwang-3	91.6	4.7
Yonggwang-4	91.2	4.7
Yonggwang-5	94.6	4.3
Yonggwang-6	93.2	4.6
Ulchin-1	99.7	4.3
Ulchin-2	80.0	4.6
Ulchin-3	90.4	4.5
Ulchin-4	69.4	4.3
Ulchin-5	92.4	4.4
Ulchin-6	92.9	4.5
Total nuclear	90.7	5.0

The average capacity factor of all of our nuclear units in aggregate has been maintained at 90.0% or more in each year since 2000.

Under extended-cycle operations, nuclear units can be run continuously for periods longer than the conventional 12-month period between scheduled shutdowns for refueling and maintenance. Since 1987, we have adopted the mode of extended-cycle operations for all of our pressurized light water reactor units and plan to use it for our newly constructed units. The average duration of shutdown for routine fuel replacement and maintenance was 37 days excluding Wolsong unit-1, or 51 days including Wolsong unit-1, in 2011.

KHNP's nuclear units experienced an average of 0.3 unplanned shutdowns per unit in 2011. In the ordinary course of operations, KHNP's nuclear units routinely experience damage and wear and tear, which are repaired during routine shutdown periods or during unplanned temporary suspensions of operations. No significant damage has occurred in any of KHNP's nuclear reactors, and no significant nuclear exposure or release incidents have occurred at any of KHNP's nuclear facilities since the first nuclear plant commenced operation in 1978. See Item 3D. Risk Factors Risks Relating to KEPCO Operation of nuclear power generation facilities inherently involves numerous hazards and risks, any of which could result in a material loss of revenues or increased expenses.



**Table of Contents***Hydroelectric*

Effective January 1, 2011, pursuant to the Government's Proposal for Improvements in the Structure of the Electric Power Industry announced on August 25, 2010, the five non-nuclear generation companies transferred all of the assets and liabilities relating to their pumped-storage and five other hydroelectric business units to KHNP. The table below sets forth certain information, including the installed capacity as of December 31, 2011 and the average capacity factor in 2011.

Location of Unit	Number of Units	Classification	Year Built	Installed Capacity (Megawatts)	Average Capacity Factor (%)
Hwacheon	4	Dam waterway	1944	108.0	29.1
Chuncheon	2	Dam	1965	62.2	28.5
Euiam	2	Dam	1967	45.0	41.2
Cheongpyung	4	Dam	1943	139.6	36.5
Paldang	4	Dam	1973	120.0	42.0
Seomjingang	3	Basin deviation	1945	34.8	45.8
Boseonggang	2	Basin deviation	1937	4.5	56.4
Kwoesan	2	Dam	1957	2.6	46.8
Anheung	3	Dam waterway	1978	0.5	44.8
Kangreung	2	Basin deviation	1991	82.0	
Topyeong <sup>(1)</sup>	1	Dam	2011	0.05	16.3
Muju <sup>(1)</sup>	1	Dam	2003	0.4	15.4
Sancheong <sup>(1)</sup>	2	Dam	2001	1.0	33.5
Yangyang <sup>(1)</sup>	2	Dam	2005	1.4	17.8
Yecheon <sup>(1)</sup>	1	Dam	2011	0.9	24.5
Cheongpeoung <sup>(1)</sup>	2	Pumped Storage	1980	400	4.3
Samrangjin <sup>(1)</sup>	2	Pumped Storage	1985	600	7.9
Muju <sup>(1)</sup>	2	Pumped Storage	1995	600	9.8
Sancheong <sup>(1)</sup>	2	Pumped Storage	2001	700	10.2
Yangyang <sup>(1)</sup>	4	Pumped Storage	2006	1,000	8.4
Cheongsong <sup>(1)</sup>	2	Pumped Storage	2006	600	11.0
Yecheon <sup>(1)</sup>	2	Pumped Storage	2011	800	10.8
<b>Total</b>	<b>51</b>			<b>5,303</b>	<b>11.5</b>

*Note:*

(1) Indicates facilities that have been transferred from our five non-nuclear generation companies to KHNP as of January 1, 2011.

*Solar/Wind*

The table below sets forth certain information, including the installed capacity as of December 31, 2011 and the average capacity factor in 2011, regarding each solar and wind power unit of KHNP.

Location of Unit	Classification	Year Built	Installed Capacity (Megawatts)	Average Capacity Factor (Percent)
------------------	----------------	------------	-----------------------------------	--

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Yonggwang	Solar	2008	3	13.2
Kori	Wind	2008	1	7.9
Total			4	12.1

K-Water (formerly Korea Water Resources Corporation), which is a Government-owned entity, assumes full control of multi-purpose dams, while KHNP maintains the dams used for power generation. Existing

**Table of Contents**

hydroelectric power units have exploited most of the water resources in the Republic available for commercially viable hydroelectric power generation. Consequently, we expect that no new major hydroelectric power plants will be built in the foreseeable future. Due to the ease of its start-up and shut-down mechanism, hydroelectric power generation is reserved for peak demand periods.

***Korea South-East Power Co., Ltd.***

The table below sets forth, by fuel type, the weighted average age and installed capacity as of December 31, 2011 and the average capacity factor and average fuel cost per kilowatt in 2011 based upon the net amount of electricity generated, of KOSEP.

	Weighted Average Age of Units (Years)	Installed Capacity (Megawatts)	Average Capacity Factor (Percent)	Average Fuel Cost per kWh (Won)
<b>Bituminous:</b>				
Samchunpo #1, 2, 3, 4, 5, 6	19.8	3,246	92.5	66.0
Yong Hung #1, 2, 3, 4	4.8	3,372	92.9	64.5
<b>Anthracite:</b>				
Yongdong #1, 2	34.4	325	88.3	104.5
<b>Oil-fired:</b>				
Yosu #1, 2	34.6	529	28.1	157.6
Total thermal	19.7	7,472	87.9	68.6
<b>Combined cycle and internal Combustion:</b>				
Bundang gas turbine #1,2,3,4,5,6,7,8; steam turbine #1, 2	17.5	924	47.3	173.4
Total	18.7	8,396	83.3	75.4

**Table of Contents*****Korea Midland Power Co., Ltd.***

The table below sets forth, by fuel type, the weighted average age and installed capacity as of December 31, 2011 and the average capacity factor and average fuel cost per kilowatt in 2011 based upon the net amount of electricity generated, of KOMIPO.

	Weighted Average Age of Units (Years)	Installed Capacity (Megawatts)	Average Capacity Factor (Percent)	Average Fuel Cost per kWh (Won)
<b>Bituminous:</b>				
Boryeong #1, 2, 3, 4, 5, 6, 7, 8	16.9	4,000	95.1	64.9
<b>Anthracite:</b>				
Seocheon #1, 2	28.4	400	86.2	120.1
<b>Oil-fired:</b>				
Jeju #2, 3	11.4	150	55.9	275.3
<b>LNG-fired:</b>				
Seoul #4, 5	42.0	388	31.6	226.2
Incheon #1, 2	39.3	500	26.5	200.7
<b>Total thermal</b>	<b>21.4</b>	<b>5,438</b>	<b>82.5</b>	<b>83.5</b>
<b>Combined-cycle and internal combustion:</b>				
Boryeong gas turbine #1, 2, 3, 4, 5, 6; steam turbine #1, 2, 3,	12.8	1,350	45.6	147.8
Incheon gas turbine #1, 2, 3, 4; steam turbine #1, 2	4.5	1,012	83.4	133.2
Jeju Gas Turbine #3	34.1	55	0.2	9,635.7
Jeju Internal Combustion Engine #1,2	4.5	80	70.5	238.1
<b>Total</b>	<b>10.0</b>	<b>2,497</b>	<b>59.1</b>	<b>144.0</b>
<b>Wind-powered:</b>				
Yangyang #1, 2	5.5	3	18.6	3.9
<b>Mini-hydro:</b>				
Boryeong	2.8	7.5	17.6	59.3
<b>Photovoltaic power &amp; Fuel Cell generation:</b>				
Boryeong (Photo) site	3.7	0.6	13.3	345.3
Seocheon (Photo) site	3.9	1.2	14.6	410.2
Jeju (Photo) site	3.9	0.1	15.2	
Seoul(Photo) site	0.4	1.3	13.2	4.5
Boryeong (fuel Cell) site	3.3	0.3	79.0	272.0
<b>Total Photovoltaic &amp; Fuel Cell generation</b>	<b>2.3</b>	<b>3.8</b>	<b>21.2</b>	<b>293.3</b>
<b>Total</b>	<b>17.7</b>	<b>7,949</b>	<b>74.5</b>	<b>98.6</b>

**Table of Contents*****Korea Western Power Co., Ltd.***

The table below sets forth, by fuel type, the weighted average age and installed capacity as of December 31, 2011 and the average capacity factor and average fuel cost per kilowatt in 2011 based upon the net amount of electricity generated, of KOWEPO.

	Weighted Average Age of Units (Years)	Installed Capacity (Megawatts)	Average Capacity Factor (Percent)	Average Fuel Cost per kWh (Won)
<b>Bituminous:</b>				
Tae'an #1, 2, 3, 4, 5, 6, 7, 8	11.4	4,000	96.2	51.7
<b>Oil-fired:</b>				
Pyeongtaek #1, 2, 3, 4	30.1	1,400	21.3	179.6
<b>Total thermal</b>	<b>16.2</b>	<b>5,400</b>	<b>76.8</b>	<b>61.0</b>
<b>Combined cycle:</b>				
Pyeongtaek	19.5	480	35.0	152.9
West Incheon	19.5	1,800	76.0	124.6
Gunsan	1.6	718.4	79.6	117.3
<b>Total combined-cycle</b>	<b>15.1</b>	<b>2,998.4</b>	<b>70.3</b>	<b>124.9</b>
<b>Mini-hydro:</b>				
Tae'an	4.3	2.2	21.5	
<b>Solar:</b>				
Tae'an	6.4	0.1	12.4	
Samryangjin	4.3	3.0	14.2	4.9
Gunsan	1.4	0.3	15.4	
<b>Total solar</b>	<b>4.0</b>	<b>3.4</b>	<b>14.1</b>	
<b>Total</b>	<b>15.8</b>	<b>8,404</b>	<b>74.5</b>	<b>83.0</b>

**Table of Contents*****Korea Southern Power Co., Ltd.***

The table below sets forth, by fuel type, the weighted average age and installed capacity as of December 31, 2011 and the average capacity factor and average fuel cost per kilowatt in 2011 based upon the net amount of electricity generated, of KOSPO.

	Weighted Average Age of Units (Years)	Installed Capacity (Megawatts)	Average Capacity Factor (Percent)	Average Fuel Cost per kWh (Won)
<b>Bituminous:</b>				
Hadong #1, 2, 3, 4, 5, 6, 7, 8	11	4,000	100.6	50.4
<b>Oil-fired:</b>				
Youngnam #1, 2	40.5	400	15.8	207.2
Nam Jeju #3, 4	5.5	200	76.0	226.2
Total thermal	13.3	4,600	92.3	58.8
<b>Combined cycle:</b>				
Shin Incheon #9, 10, 11, 12	15.7	1,800	59.0	128.7
Busan #1, 2, 3, 4	7.5	1,800	78.6	119.7
Yeongwol #1	0.3	848	60.0	122.4
Hallim	15.5	105	5.0	281.9
Total combined cycle	10.1	4,553	65.7	123.6
<b>Internal combustion:</b>				
Nam Jeju	21.3	40	30.9	198.1
<b>Wind power:</b>				
Hankyung	5.9	21	25.5	0.6
Seongsan	2.3	20	28.6	0.5
Total wind power	4.1	41	27.0	0.5
Solar	1.9	4	13.2	0.1
Total	11.6	9,238	78.6	85.9

**Table of Contents*****Korea East-West Power Co., Ltd.***

The table below sets forth, by fuel type, the weighted average age and installed capacity as of December 31, 2011 and the average capacity factor and average fuel cost per kilowatt in 2011 based upon the net amount of electricity generated, of EWP.

	Weighted Average Age of Units (Years)	Installed Capacity (Megawatts)	Average Capacity Factor (Percent)	Average Fuel Cost per kWh (Won)
<b>Bituminous:</b>				
Dangjin #1, 2, 3, 4, 5, 6,7,8	8.0	4,000	94.1	63.5
Honam #1, 2	38.1	500	91.4	80.6
<b>Anthracite:</b>				
Donghae #1, 2	12.1	400	84.8	95.0
<b>Oil-fired:</b>				
Ulsan #1, 2, 3, 4, 5, 6	33.3	1,800	19.1	220.6
<b>Total thermal</b>	<b>23.1</b>	<b>6,700</b>	<b>72.3</b>	<b>78.0</b>
<b>Combined cycle:</b>				
Ulsan gas turbine #1, 2, 3, 4, 5, 6; steam turbine #1, 2, 3	18.1	1,200	67.7	140.7
Ilsan gas turbine #1, 2, 3, 4, 5, 6; steam turbine #1, 2	16.1	900	44.1	178.9
<b>Total combined-cycle and internal combustion</b>	<b>17.1</b>	<b>2,100</b>	<b>55.9</b>	<b>153.2</b>
<b>Mini-hydro:</b>				
Dangjin	2.0	5.0	69.1	83.5
<b>Photovoltaic:</b>				
Dangjin	1.0	1.0	14.0	50.3
Ulsan	0.1	0.5	11.1	50.9
Kwangyang	0.1	2.3	0.4	0
Dangjin Waste Treatment Facility	0.0	1.3	0.2	0
Donghae	5.0	1.0	10.5	453.5
<b>Total Photovoltaic</b>	<b>1.1</b>	<b>6.1</b>	<b>12.7</b>	<b>183.2</b>
<b>Fuel cell:</b>				
Ilsan #1	2.1	2.4	59.6	200.6
Ilsan # 2	0.1	2.8	77.3	180.6
<b>Total Fuel Cell</b>	<b>1.1</b>	<b>5.2</b>	<b>75.7</b>	<b>188.5</b>
<b>Total</b>	<b>9.05</b>	<b>8,816.3</b>	<b>69.5</b>	<b>140.3</b>

**Table of Contents****Power Plant Remodeling and Recommissioning**

Our generation subsidiaries supplement power generation capacity through remodeling or recommissioning of thermal units. Recommissioning includes installation of anti-pollution devices, modification of control systems and overall rehabilitation of existing equipment.

Power Plant	Capacity	Completed (Year)	Extension	Company
Taeam #1-8	4,000 MW	FGD <sup>(1)</sup> : 1998 to 2007	Anti-pollution	KOWEPO
	(500 MW×8)	SCR <sup>(2)</sup> : 2005 to 2007		
		EP <sup>(3)</sup> : 1995 to 2007		
		LNCS <sup>(4)</sup> : 1995 to 2007		
		EP <sup>(3)</sup> upgrade (#5, 2009)		
		EP <sup>(3)</sup> upgrade (#6, 2010)		
		EP <sup>(3)</sup> upgrade (#4, 2011)		
Pyeongtaek #1-4	1,400 MW	FGD <sup>(1)</sup> : 2005	Anti-pollution	KOWEPO
	(350 MW×4)	SCR <sup>(2)</sup> : 2006 to 2007		
		EP <sup>(3)</sup> : 1992		
		EP <sup>(3)</sup> upgrade (#1, 2009)		
		EP <sup>(3)</sup> upgrade (#2, 2010)		
Seoincheon CC	1,800 MW	LNCS <sup>(4)</sup> : 1992	Anti-pollution	KOWEPO
	(gas turbines 150 MW ×8)	Gas turbine upgrade	Efficiency	
	(steam turbines 75 MW ×8)	(2003 to 2006)	improvement	
Honam #1	250 MW	2010	10 years	EWP
Honam #2	250 MW	2010	10 years	EWP
Gunsan CC	718.4 MW	LNCS <sup>(4)</sup> : 2010	Anti-pollution	KOWEPO
	(gas turbines 233.3 MW ×2)			
	(steam turbines 251.8 MW ×1)			
Boryeong #1-8	4,000 MW	FGD <sup>(1)</sup> : 1996 to 2009	Anti-pollution	KOMIPO
	(500 MW×8)	SCR <sup>(2)</sup> : 2006 to 2009		
		LNCS <sup>(4)</sup> : 1993 to 2009		
		EP <sup>(3)</sup> : 1984 to 2009		
		2009 (#1,2)		



Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Incheon #1,2	500 MW	SCR <sup>(2)</sup> : 2002 to 2005	10 years Anti-pollution	KOMIPO
Seoul #4,5	(250 MW×2)	LNCS <sup>(3)</sup> : 2002 to 2005	Anti-pollution	KOMIPO
	387.5 MW	SCR <sup>(2)</sup> : 2001 to 2002		
	(137.5 MW×1)			
Seocheon #1,2	(250 MW×1)		Anti-pollution	KOMIPO
	400 MW	FGD <sup>(1)</sup> : 1998, SCR : 2006		
Incheon #1,2	(200 MW×2)	LNCS <sup>(4)</sup> : 2004 to 2005	10 years	KOMIPO
	500 MW	EP <sup>(3)</sup> : 1982 to 1983 1996(#1)		
	(250 MW×2)	2002(#2)		
Jeju T/P #2,3	150 MW	SCR <sup>(2)</sup> : 2010	Anti-pollution	KOMIPO
Jeju D/P #1,2	(75 MW×2)	EP <sup>(3)</sup> : 2000	Anti-pollution	KOMIPO
	80 MW	SCR <sup>(2)</sup> : 2005 to 2009		
	(40 MW×2)	EP <sup>(3)</sup> : 2005 to 2009 FGD <sup>(1)</sup> : 2005 to 2009		

**Table of Contents**

Power Plant	Capacity	Completed (Year)	Extension	Company
Yonghung #5,6	1,750 MW (870 MW × 2)	2014	30 years	KOSEP
Hadong #1-8	4,000 MW (500 MW × 8)	FGD <sup>(1)</sup> : 1998 to 2009 EP <sup>(3)</sup> : 1997 to 2009 LNCS <sup>(3)</sup> : 1997 to 2009 SCR <sup>(2)</sup> : 2006 to 2009 LNCS <sup>(4)</sup> : 1996	Anti-pollution	KOSPO
Shin-Incheon CC	1,800 MW (gas turbines 150 MW × 8) (steam turbines 150 MW × 4)	LNCS <sup>(4)</sup> : 2003 to 2004	Anti-pollution	KOSPO
Busan CC	1,800 MW (gas turbines 150 MW × 8) (steam turbines 150 MW × 4)	LNCS <sup>(4)</sup> : 2003 to 2004	Anti-pollution	KOSPO
Youngnam #1,2	400 MW (200 MW × 2)	FGD <sup>(1)</sup> : 1999 SCR <sup>(2)</sup> : 2002 EP <sup>(3)</sup> : 1988 to 1990 LNCS <sup>(4)</sup> : 2002-	Anti-pollution	KOSPO
Namjeju T/P #3,4	200 MW (100 MW × 2)	FGD <sup>(1)</sup> : 2006 to 2007 SCR <sup>(2)</sup> : 2006 to 2007 EP <sup>(3)</sup> : 2006 to 2007	Anti-pollution	KOSPO
Namjeju D/P #1-4	40 MW (10 MW × 4)	SCR <sup>(2)</sup> : 1999 to 2000 EP <sup>(3)</sup> : 1990 to 1991	Anti-pollution	KOSPO
Yeongwol CC	848MW (gas turbines 183 MW × 3) (steam turbines 299 MW × 1)	LNCS <sup>(4)</sup> : 2010	Anti-pollution	KOSPO

Notes:

- (1) FGD means a flue gas desulphurization system.
- (2) SCR means a selective catalytic reduction system.
- (3) EP means an electrostatic precipitation system.
- (4) LNCS means a low nitrodioxide (NO) combustion system.

**Transmission and Distribution**

We currently transmit and distribute substantially all of the electricity in Korea.

In addition to us, under the Community Energy System there are also 12 other entities in Korea that are licensed to supply electricity in limited geographical areas, but their aggregate market share has to-date been insignificant. In July 2004, the Government adopted the Community Energy System to enable regional districts to source electricity from independent power producers to supply electricity without having to undergo the cost-based pool system used by our generation subsidiaries and most independent power producers to distribute electricity nationwide. A supplier of electricity under the Community Energy System must be authorized by the Korea Electricity Commission and be approved by the Minister of Knowledge Economy in accordance with the Electricity Business Act. The purpose of this system is to decentralize electricity supply and thereby reduce transmission costs and improve the efficiency of energy use. These entities do not supply electricity on a national level but are licensed to supply electricity on a limited basis to their respective districts under the Community

**Table of Contents**

Energy System. As of March 31, 2012, 14 districts were using this system and one other district was preparing to launch it and there were 12 independent entities that were licensed to distribute electricity in all of such 15 districts, to which we also transmit and distribute electricity. The generation capacity installed or under construction of the electricity suppliers in these 15 districts amounted to approximately 1% of the aggregate generation capacity of our generation subsidiaries as of March 31, 2012. Since the introduction of the Community Energy System in 2004, a total of 31 districts have obtained the license to supply electricity through the Community Energy System, but 16 of such districts have reportedly abandoned plans to adopt the Community Energy System, largely due to the relatively high level of capital expenditure required, the rise in fuel costs and the lower-than-expected electricity output per cost. However, if the Community Energy System is widely adopted, it will erode our market position in the generation and distribution of electricity in Korea, which has been virtually monopolized by us until recently, and may have a material adverse effect on our business, growth, revenues and profitability.

The table below sets forth as of December 31, 2010 and 2011 and March 31, 2012, the number of districts with government permits to participate in the Community Energy Supply, the number of apartments in such districts and generating capacity to be installed.

As of the date specified below	Number of Districts with Permit to Participate	Number of Apartments (in thousands)	Generating Capacity (Megawatts)
December 31, 2010	31	320	1,474
December 31, 2011	31	320	1,474
March 31, 2012 <sup>(1)</sup>	31	320	1,474

*Note:*

- (1) Reflects 16 districts with a permit to participate in the Community Energy System, which have subsequently announced that they are abandoning plans to adopt such system. The number of apartments and generating capacity represented by such districts are approximately 190 thousand units and 866 megawatts, respectively.

As of December 31, 2011, our transmission system consisted of 31,249 circuit kilometers of lines of 765 kilovolts and others including high voltage direct current lines, and we had 749 substations with an aggregate installed transformer capacity of 264,373 megavolt-amperes.

As of December 31, 2011, our distribution system consisted of 102,582 megavolt-amperes of transformer capacity and 8,463,756 units of support with a total line length of 435,549 circuit kilometers.

In recent years, we have made substantial investments in our transmission and distribution systems to increase coverage and improve efficiency. Our current projects principally focus on increasing capabilities of the existing lines and reducing our transmission and distribution loss, which was 3.7% in 2011. In light of the increased damage to large-scale transmission and distribution facilities, we plan to reinforce stability of our transmission and distribution facilities through stricter design and material specifications. In addition, we also plan to expand underground transmission and distribution facilities to meet customer demand for more environment-friendly facilities. In order to reduce the interruption time in power distribution, which is an indicator of the quality of electricity transmission, we are also continuing to invest in upgrading our evaluation technologies, automation of electricity transmission and development of new transmission technologies. In particular, as part of our overall business strategy, we are currently developing, or seek to develop, an intelligent power transmission and distribution network, or smart grids, based on advanced information technology, in order to promote a more efficient allocation and use of electricity by consumers, a superconducting technology that will improve efficiency in the transmission of electricity over such network and localized high-voltage direct current technology that will reduce electricity loss over the course of transmission and distribution. See Strategy.

## **Table of Contents**

Some of the facilities we own and use in our distribution system use rights of way and other concessions granted by municipal and local authorities in areas where our facilities are located. These concessions are generally renewed upon expiration.

### **Fuel**

#### ***Nuclear***

Uranium, the principal fuel source for nuclear power, accounted for 34.1% and 34.2% of our fuel requirements for electricity generation in 2010 and 2011, respectively.

All uranium ore concentrates are imported from, and conversion and enrichment of such concentrates are provided by, sources outside Korea and are paid for with currencies other than Won, primarily in U.S. dollars.

In order to ensure stable supply, KHNP enters into long-term and medium-term contracts with various suppliers and supplements such supplies with purchases in spot markets. In 2011, KHNP purchased 100%, or approximately 3,374 tons, of its uranium concentrate requirement under long-term supply contracts with suppliers in Australia, Canada, France, Germany, Japan, Kazakhstan and Niger. Under the long-term supply contracts, the purchase prices of uranium concentrates are adjusted annually based on base prices and spot market prices prevailing at the time of actual delivery. The conversion and enrichment services of uranium concentrate are provided by suppliers in Canada, China, France, Germany, Japan, Russia, the United Kingdom and the United States. A Korean supplier typically provides fabrication of fuel assemblies. Except for certain fixed contract prices, contract prices for processing of uranium are adjusted annually in accordance with the general rate of inflation. KHNP intends to obtain its uranium requirements in the future, in part, through purchases under medium- to long-term contracts and, in part, through spot market purchases.

#### ***Coal***

Bituminous coal accounted for 43.6% and 43.5% of our fuel requirements for electricity generation in 2010 and 2011, respectively, and anthracite coal accounted for 1.9% and 1.9% of our fuel requirements for electricity generation in 2010 and 2011, respectively.

In 2011, our generation subsidiaries purchased approximately 79.8 million tons of bituminous coal, of which approximately 45.9%, 33.5%, 7.9%, 6.8% and 5.9% were imported from Indonesia, Australia, the United States, Russia, and others, respectively. Approximately 75.9% of the bituminous coal requirements of our generation subsidiaries in 2011 were purchased under long-term contracts with the remaining 24.1% purchased in the spot market. Some of our long-term contracts relate to specific generating plants and extend through the end of the projected useful lives of such plants, subject in some cases to periodic renewal. Pursuant to the terms of our long-term supply contracts, prices are adjusted annually based on market conditions. The average cost of bituminous coal per ton purchased under such contracts amounted to Won 107,413 and Won 116,073 in 2010 and 2011, respectively. Due to such price increases as well as increased shipping cost for bituminous coal, our generation subsidiaries may not be able to secure their respective bituminous coal supply at prices comparable to those of prior periods. See Item 3D. Risk Factors Risks Relating to KEPCO Increases in fuel prices will adversely affect our results of operations and profitability, as we may not be able to pass on the increased cost to consumers at a sufficient level or on a timely basis.

In 2011, our generation subsidiaries purchased approximately 1.7 million tons of anthracite coal. The average cost of anthracite coal per ton purchased under such contracts was Won 130,836 and Won 136,471 in 2010 and 2011, respectively.

#### ***Oil***

Oil accounted for 2.5% and 2.2% of our fuel requirements for electricity generation in 2010 and 2011, respectively.

## **Table of Contents**

In 2011, our generation subsidiaries purchased approximately 14.4 million barrels of fuel oil, of which 65.3% was purchased from domestic refiners and the remainder from foreign sources, in each case, through competitive open bidding. Purchase prices are based on the spot market price in Singapore. The average cost per barrel was Won 98,023 and Won 128,395 in 2010 and 2011, respectively.

### ***LNG***

LNG accounted for 16.6% and 16.8% of our fuel requirements for electricity generation in 2010 and 2011, respectively. In 2011, we purchased approximately 10.7 million tons of LNG from Korea Gas Corporation, a Government-controlled entity in which we currently own a 24.5% equity interest. Under the terms of the LNG contract with Korea Gas Corporation, our annual minimum purchase quantity is determined by our negotiations with Korea Gas Corporation, subject to the Government's approval, and may be adjusted through negotiations between the parties. Under this contract, all of our five non-nuclear generation subsidiaries are jointly and severally obligated to purchase a total of 10.5 million tons of LNG in 2012, subject to an automatic price adjustment based on a pre-determined formula if the actual purchased amount exceeds or falls short of the contracted amount. In addition, the annual purchase quantity of LNG to be purchased from Korea Gas Corporation will exclude any amount of LNG purchased from a source other than Korea Gas Corporation. We believe the quantities of LNG provided under such contract will be adequate to meet the needs of our generation subsidiaries for LNG for the next several years. Our LNG supply contract with Korea Gas Corporation has a term of 20 years and expires in December 2026.

The annual purchase price for LNG is determined by our negotiations with Korea Gas Corporation, subject to approval by the Ministry of Knowledge Economy. Korea Gas Corporation imports LNG primarily from Indonesia, Malaysia, Brunei, Qatar, Oman, Australia, Egypt and Nigeria and supplies LNG to us and other Korean gas companies. The average cost per ton of LNG under our contract with Korea Gas Corporation was Won 778,980 and Won 888,745 in 2010 and 2011, respectively.

### ***Hydroelectric***

As of December 31, 2011, hydroelectric units represented approximately 8.0% of our total installed generating capacity.

The availability of water for hydroelectric power depends on rainfall and competing uses for available water supplies, including residential, commercial, industrial and agricultural consumption. Pumped storage enables us to increase the available supply of water for use during periods of peak electricity demand.

As of January 1, 2011, assets and liabilities relating to the pumped storage units of the five non-nuclear generation subsidiaries were recognized and transferred to KHNP pursuant to the Government's Proposal for Improvements in the Korean Electric Power Industry.

### **Sales and Customers**

Our sales depend principally on the level of demand for electricity in Korea and the rates we charge for the electricity we sell to the end-users.

Demand for electricity in Korea grew at a compounded average rate of 5.5% per annum for the five years ended December 31, 2011. According to The Bank of Korea, the compounded growth rate for real gross domestic product, or GDP, was approximately 3.5% for the same period. The GDP growth rate was approximately 6.2% in 2010 and approximately 3.6% in 2011.

**Table of Contents**

The table below sets forth, for the periods indicated, the annual rate of growth in Korea's gross domestic product, or GDP, and the annual rate of growth in electricity demand (measured by total annual electricity consumption) on a year-on-year basis.

	2007	2008	2009	2010	2011
Growth in GDP (at 2006 constant prices)	5.1%	2.3%	0.3%	6.2%	3.6%
Growth in electricity consumption	5.7%	4.5%	2.4%	10.1%	4.8%

Electricity demand in Korea varies within each year for a variety of reasons other than the general growth in GDP demand. Electricity demand tends to be higher during daylight hours due to heightened commercial and industrial activities and electrical appliance use. Due to the use of air conditioning during the summer and heating during the winter, electricity demand is higher during these two seasons than the spring or the fall. Variation in weather conditions may also cause significant variation in electricity demand.

We do not use any marketing channels, including any special sales methods, to sell electricity to our customers, other than to install electricity meters on-site and take monthly readings of such meters, based upon which invoices are sent to our customers.

***Demand by the Type of Usage***

The table below sets forth the consumption of electric power, and growth of such consumption on a year-on-year basis, by the type of usage (in gigawatt hours) for the periods indicated.

	2007 (GWh)	YoY growth (%)	2008 (GWh)	YoY growth (%)	2009 (GWh)	YoY growth (%)	2010 (GWh)	YoY growth (%)	2011 (GWh)	YoY growth (%)	% of Total 2011
Residential	75,148	3.3	77,269	2.8	78,548	1.7	82,890	5.5	82,130	(0.9)	18.0
Commercial	82,208	5.7	86,827	5.6	89,619	3.2	97,410	8.7	99,504	2.1	21.8
Educational	5,304	10.7	5,783	9.0	6,465	11.8	7,453	15.3	7,568	1.5	1.7
Industrial	194,936	6.5	203,475	4.4	207,216	1.8	232,672	12.3	251,491	8.1	55.3
Agricultural	8,215	7.6	8,869	8.0	9,671	9.0	10,654	10.2	11,232	5.4	2.5
Street lighting	2,794	4.0	2,847	1.9	2,954	3.8	3,081	4.3	3,145	2.1	0.7
Total	368,605	5.7	385,070	4.5	394,475	2.4	434,160	10.1	455,070	4.8	100.0

The industrial sector represents the largest segment of electricity consumption in Korea. Demand from the industrial sector increased by 8.1% to 251,491 gigawatt hours in 2011 from 2010, largely due to the continued export-led growth of the Korean economy in 2011.

Demand from the commercial sector has increased in recent years, largely due to increased commercial activities in Korea and the rapid expansion of the service sector of the Korean economy, which has resulted in increased office building construction, office automation and use of air conditioners. Growth in the commercial sector is also attributable to the construction industry and the expansion of the leisure and distribution industries. Demand from the commercial sector increased by 2.1% to 99,504 gigawatt hours in 2011 from 2010.

In 2011, we distributed electricity to approximately 20 million households, which represent substantially all of the households in Korea. Demand from the residential sector is largely dependent on population growth and increased use of air conditioners and other electrical appliances. Demand from the residential sector decreased by 0.9% to 82,130 gigawatt hours in 2011 from 2010 due to the relatively less warm summer in 2011 compared to 2010 resulting in reduced use of air conditioning in 2011, which more than offset increased electricity demand from greater electric heater usage during the winter of 2011 due to the relatively colder winter compared to 2010.

**Table of Contents*****Demand Management***

Our ability to provide an adequate supply of electricity is principally measured by the facility capacity reserve margin and the supply capability reserve margin. The facility capacity reserve margin represents the difference between the peak usage during a year and the installed capacity at the time of such peak usage, expressed as a percentage of such installed capacity. The supply capability reserve margin represents the difference between the peak usage in a year and the average available capacity at the time of such peak usage, expressed as a percentage of such peak usage. The following table sets forth our facility reserve margin and supply reserve margin for the periods indicated.

	2007	2008	2009	2010	2011
Facility reserve margin	7.9%	12.0%	9.7%	6.7%	4.1%
Supply reserve margin	7.2%	9.1%	7.9%	6.2%	5.1%

Both the facility reserve margin and the supply reserve margin decreased from 2010 to 2011, mainly due to economic recovery and unanticipated weather conditions, including relatively colder winter in 2011 compared to 2010 resulting in greater use of heaters in 2011 at peak hours.

While we seek to meet the growing demand for electricity in Korea primarily by continuing to expand our generating capacity through the addition of new generating facilities, we also implement several measures to curtail electricity consumption, especially during peak periods. The principal measure we take is to apply, for large-scale customers, time-of-use rate schedules, which are structured so that higher tariffs are charged at the time of peak demand. Our other demand management programs include applying a progressive rate structure for the residential use of electricity. We seek to reduce not only energy consumption but also greenhouse gas emission by deploying various high efficiency devices such as energy efficient lightings. Furthermore, we replace lightings for low-income households for free as part of government's energy welfare policy.

***Electricity Rates***

The Electricity Business Law and the Price Stabilization Act of 1975, each as amended, prescribe the procedures for the approval and establishment of rates charged for the electricity we sell. We submit our proposals for revisions of rates or changes in the rate structure to the Ministry of Knowledge Economy. The Ministry of Knowledge Economy then reviews these proposals and, upon consultation with the Electricity Rates Expert Committee of the Ministry of Knowledge Economy and the Ministry of Strategy and Finance, makes the final decision. Under the Electricity Business Law, the Korea Electricity Commission must review our proposals prior to the Ministry of Knowledge Economy's final decision.

Under the Electricity Business Law and the Price Stabilization Act, electricity rates are established at levels that would enable us to recover our operating costs attributable to our basic electricity generation, transmission and distribution operations as well as receive a fair investment return on capital used in those operations. For the purposes of rate approval, operating costs are defined as the sum of our operating expenses (which principally consists of cost of sales and selling and administrative expenses) and our adjusted income taxes.

Fair investment return represents an amount equal to the rate base multiplied by the rate of return. The rate base is equal to the sum of:

net utility plant in service (which is equal to utility plant minus accumulated depreciation minus revaluation reserve);

working capital for two months (equal to one-sixth of our annual operating expenses other than depreciation expenses and any other non-cash expenses);

our equity interests in generation subsidiaries; and

the portion of construction-in-progress which is charged from our retained earnings.





---

## Table of Contents

The amounts used for the variables in the rates are those projected by us for the periods to be covered by the rate approval. There is no provision for prior period adjustments to compensate us.

For the purpose of determining the fair rate of return, the rate base is divided into two components in proportion to our total shareholders' equity and our total debt. The rate of return permitted in relation to the debt component of the rate base is set at a level designed to approximate the weighted average interest cost on all types of borrowing for the periods covered by the rate approval. The rate of return permitted in relation to the equity component of the rate base is set by applying the capital asset pricing model which takes account of the risk-free rate, the return on the Korea Stock Price Index, KOSPI, a Korean equity market index, and the correlation of the stock price of our company with KOSPI. In 2011, the approved rate of return on the debt component of the rate base was 3.9% while the approved rate of return on the equity component of the rate base was 7.3%. As a result of such approved rates of returns, the fair rate of return in 2011 was determined to be 5.9%.

The Electricity Business Law and the Price Stabilization Act do not specify a basis for determining the reasonableness of our operating expenses or any other items (other than the level of the fair investment return) for the purposes of the rate calculation. However, the Government exercises substantial control over our budgeting and other financial and operating decisions.

In addition to the calculations described above, a variety of other factors are considered in setting overall tariff levels. These other factors include consumer welfare, our projected capital requirements, the effect of electricity tariff on inflation in Korea and the effect of tariff on demand for electricity.

From time to time, our actual rate of return on invested capital may differ significantly from the rate of return on invested capital assumed for the purposes of electricity tariff approvals, for reasons, among others, related to movements in fuel prices, exchange rates and demand for electricity that differ from what is assumed for determining our fair rate of return. For example, between 1987 and 1990, the actual rate of return was above the fair rate of return due to declining fuel costs and rising demand for electricity at a rate not anticipated for purposes of determining our fair rate of return. Similarly, depreciation of the Won against the U.S. dollar accounted for our actual rates of return being lower than the fair rate of return for the period from 1996 to 2000, and for the period since 2006, our actual rates of return have been lower than the fair rates of return largely due to rising fuel costs and higher facility investment costs. Partly in response to the variance between our actual rates of return and the fair rates of return, the Government from time to time adjusts the electricity tariff rates, but there typically is a significant time lag for the tariff adjustment as such adjustment requires a series of deliberative processes and administrative procedures and the Government also has to consider other policy considerations, such as the inflationary effect of overall tariff increases and the efficiency of energy use from sector-specific tariff increases. Furthermore, there is no assurance that the tariff adjustments will have the desired effect at a level anticipated or at all, or that they will not have unintended adverse consequences.

Recent adjustments to the electricity tariff rates by the Government involve the following, which were made principally in response to the rising fuel prices which hurt our profitability as well as to encourage a more efficient use of electricity by the different sectors:

effective August 1, 2010, a 3.5% overall increase in our average tariff rate, consisting of increases in the residential, educational, industrial, street lighting and night power usage tariff rates by 2.0%, 5.9%, 5.8%, 5.9% and 8.0%, while making no changes to the commercial and agricultural tariff.

effective August 1, 2011, a 4.9% overall increase in our average tariff rate, consisting of increases in the industrial, commercial, residential, educational, street lighting and night power usage tariff rates by 6.1%, 4.4%, 2.0%, 6.3%, 6.3% and 8.0%, while making no changes to the agricultural tariff.

effective December 5, 2011, a 4.5% overall increase in our average tariff rate, consisting of increases in the industrial, commercial, educational and street lighting tariff rates by 6.5%, 4.5%, 4.5% and 6.5%, while making no changes to the residential, agricultural and night power usage tariff.

## Table of Contents

The tariff rates we charge for electricity vary among the different classes of consumers, which principally consist of industrial, commercial, residential, educational and agricultural consumers. The tariff also varies depending upon the voltage used, the season, the time of day, the rate option selected by the user and, in the residential sector, the amount of electricity used per household, as well as other factors. For example, we adjust for seasonal tariff variations by excluding June from the summer season when peak rates are in effect and increasing the rates for the months of November, December, January and February to correspond more closely to peak demand trends.

Our current tariff schedule, which became effective as of December 5, 2011, is summarized below by the type of usage:

*Industrial.* The basic charge varies from Won 4,900 per kilowatt to Won 7,930 per kilowatt depending on the type of contract, the voltage used and the rate option. The energy usage charge varies from Won 45 per kilowatt hour to Won 167.9 per kilowatt hour depending on the type of contract, the voltage used, the season, the time of day and the rate option.

*Commercial.* The basic charge varies from Won 5,610 per kilowatt to Won 7,430 per kilowatt depending on the type of contract, the voltage used and the rate option. The energy usage charge varies from Won 46.2 per kilowatt hour to Won 172.9 per kilowatt hour depending on the type of contract, the voltage used, the season, the time of day and the rate option.

*Residential.* Residential tariff includes a basic charge ranging from Won 390 for electricity usage of less than 100 kilowatt hours to Won 12,230 for electricity usage in excess of 500 kilowatt hours. Residential tariff also includes an energy usage charge ranging from Won 57.3 to Won 670.6 per kilowatt hour for electricity usage depending on the amount of usage and voltage.

*Educational.* The basic charge varies from Won 5,390 per kilowatt to Won 6,540 per kilowatt depending on the voltage used and the rate option. The energy usage charge varies from Won 40.2 per kilowatt hour to Won 147 per kilowatt hour depending on the voltage used, the season and the rate option.

*Agricultural.* The basic charge varies from Won 340 per kilowatt to Won 1,070 per kilowatt depending on the type of usage. The energy usage charge varies from Won 20.6 per kilowatt-hour to Won 36.4 per kilowatt hour depending on the type of usage.

*Street-lighting.* The basic charge is Won 5,420 per kilowatt and the energy usage charge is Won 74 per kilowatt hour. For electricity capacity of less than 1 kilowatt or for places where the installation of the electricity meter is difficult, a fixed rate of Won 32.3 per watt applies, with the minimum charge per month of Won 1,050.

Further to the announcement by the Ministry of Knowledge Economy in February 2010, a new electricity tariff system went into effect on July 1, 2011. This system is designed to overhaul the prior system for determining electricity tariff chargeable to customers by more closely aligning the tariff levels to the movements in fuel prices, with the aim of providing more timely pricing signals to the market regarding the expected changes in electricity tariff levels and encouraging more efficient use of electricity by customers. Previously, the electricity tariff consisted of two components: (i) base rate and (ii) usage rate based on the cost of electricity and the amount of electricity consumed by the end-users. Under the new tariff system, the electricity tariff will also have a third component of fuel cost-adjusted rate, which will be added to or subtracted from the sum of the base rate and the usage rate based on the movements of coal, LNG and oil prices. The fuel cost-related adjustment will be made on a monthly basis based on the three-month average fuel cost which is reflected as fuel-cost adjustment fees two months later. The new tariff system is intended to provide greater financial stability and ensure a minimum return on investment to electricity suppliers, such as us. However, due to inflationary and other policy considerations relating to protecting the consumers from sudden and substantial rises in electricity tariff, the Ministry of Knowledge Economy has for the time being suspended applying the fuel cost-based adjustment, and such adjustment amount (which has been a positive amount since the adoption of the new tariff system due to the

**Table of Contents**

continued rise in coal, LNG and oil prices) is currently being recorded as accounts receivable pending the commencement of the application of the fuel cost-based adjustment. There is no assurance as to when the Government will commence applying the fuel cost-based adjustment and reflect the adjustment amount in the electricity tariff payable to us, or whether the new tariff system will undergo further amendments to the effect that it will not fully cover our fuel and other costs on a timely basis or at all, or will not have unintended consequences that we are not presently aware of. Any such development may have a material adverse effect on our business, financial condition, results of operations and cash flows. See Item 4B. Business Overview Recent Developments Implementation of the Fuel Cost-based Tariff System.

In 2001, as part of implementing the Restructuring Plan, the Ministry of Knowledge Economy established the Electric Power Industry Basis Fund to enable the Government to take over certain public services previously performed by us. In 2011, 3.7% of the tariff we collected from our customers was transferred to this fund prior to recognizing our sales revenue.

**Power Development Strategy**

We and our generation subsidiaries make plans for expanding or upgrading our generation capacity based on the Basic Plan Relating to the Long-Term Supply and Demand of Electricity, or the Basic Plan, which is announced and revised generally every two years by the Government.

In December 2010, the Government announced the fifth Basic Plan relating to the future supply and demand of electricity. The fifth Basic Plan, which is effective for the period from 2010 to 2024, focuses on, among other things, (i) ensuring that electricity generation conforms to the National Energy Basic Plan relating to the overall energy management policy for Korea, (ii) expanding the base-load generation capacity to promote economical supply of electricity, (iii) preparing contingency planning to cover for, among others, delayed construction of generation facilities, and otherwise ensuring stable long-term balance between electricity supply and demand, (iv) tightening supply management from 2012 to 2014 in response to the short-term decrease in facility reserve margins, (v) fostering environmentally friendly electricity sources in line with the planned nationwide reduction in greenhouse gas emission by giving priority in the construction of nuclear generation facilities and taking other green energy initiatives, (vi) appropriately adjusting the generation capacity expansion and (vii) improving transparency in planning and engaging a greater number of experts in the process of planning future basic plans.

We cannot assure that the fifth Basic Plan, or the plans subsequently adopted, will successfully achieve their intended goals, the foremost of which is to formulate a capacity expansion plan that will result in balanced overall electricity supply and demand in Korea at an affordable cost to the end users. If there is a significant variance between the actual capacity expansions by us and our generation subsidiaries based on the projected electricity supply and demand and the actual supply and demand, this may result in inefficient use of our capital, mispricing of electricity and undue financing costs on the part of us and our generation subsidiaries, which may have a material adverse effect on our results of operations, financial condition and cash flows.

**Capital Investment Program**

The table below sets forth, for each of the years ended December 31, 2010 and 2011, the amounts of capital expenditures (including capitalized interest) for the construction of generation, transmission and distribution facilities. The figures in the table are derived from Additions to property, plant and equipment under the item cash flows from investing activities in our consolidated statements of cash flows.

2010	(In billions of Won)	2011
(Won)10,184		(Won) 10,610

In accordance with the fifth Basic Plan, our generation subsidiaries currently intend to add new installed capacity of 39,523 megawatts during the period from 2012 to 2024 by newly constructing 13 nuclear units,

**Table of Contents**

17 coal-fired units, 14 LNG-combined units. According to the fifth Basic Plan, the total capacity of all generating facilities at the end of 2024 is expected to be 112,593 megawatts, with nuclear power plants accounting for 31.9% of the total capacity. Coal-fired plants, LNG combined plants, oil-fired plants and hydroelectric and other plants are expected to account for 27.9%, 20.9%, 3.6% and 15.7%, of the total capacity, respectively.

The table below sets forth the currently estimated installed capacity for new or expanded generation units to be completed by our generation subsidiaries according to the fifth Basic Plan in each year from 2012 to 2015.

Year	Number of Units	Type of Units	Total Installed Capacity (Megawatts)
2012	2	LNG-combined	1,283
	2	Nuclear power	2,000
2013	3	LNG-combined	1,650
	2	Nuclear power	2,400
2014	9	LNG-combined	6,100
	1	Nuclear	1,400
	3	Coal-fired	2,240
2015	9	Coal-fired	6,050

From 2016 and 2024, our generation subsidiaries currently plan to complete eight nuclear units with an aggregate installed capacity of 11,400 megawatts, five coal-fired units with an aggregate installed capacity of 5,000 megawatts.

As part of our capital investment program, we also intend to add new transmission lines and substations, continue to replace overhead lines with underground cables and improve the existing transmission and distribution systems.

The actual number and capacity of generation units and transmission and distribution facilities we construct and the timing of such construction are subject to change depending upon a variety of factors, including, among others, changes in the Basic Plan, demand growth projections, availability and cost of financing, changes in fuel prices and availability of fuel, ability to acquire necessary plant sites, environmental considerations and community opposition.

The table below sets forth, for the years from 2012 to 2015, the budgeted amounts of capital expenditures (including capitalized interest) for the construction of generation, transmission and distribution facilities pursuant to our capital investment program. The budgeted amounts may vary from the actual amounts of capital expenditures for a variety of reasons, including, among others, the implementation of the fifth Basic Plan, changes in the number of units to be constructed, the actual timing of such construction, changes in rates of exchange between the Won and foreign currencies and changes in interest rates.

	2012	2013	2014	2015	Total
	(in billions of Korean won)				
<b>Generation:</b>					
Nuclear	4,892	5,432	5,526	6,272	22,122
Thermal	3,336	8,531	6,567	3,713	22,147
Sub-total	8,228	13,963	12,093	9,985	44,269
<b>Transmission and Distribution:</b>					
Transmission	2,627	2,353	2,244	1,965	9,189
Distribution	2,195	2,182	2,139	2,080	8,596
Sub-total	4,822	4,535	4,383	4,045	17,785
Others <sup>(1)</sup>	1,872	2,328	2,508	2,363	9,071

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Total	14,922	20,826	18,984	16,393	71,125
-------	--------	--------	--------	--------	--------

*Note:*

(1) Principally consists of investments in renewable energy generation, among others.

**Table of Contents**

We have financed, and plan to finance in the future, our capital investment programs primarily through net cash provided by our operating activities and financing in the form of debt securities and loans from domestic financial institutions, and to a lesser extent, borrowings from overseas financial institutions. In addition, in anticipation of potential liquidity shortage, we maintain several credit facilities with domestic financial institutions in the aggregate amounts of Won 3,583 billion, the full amount of which was available as of December 31, 2011. We and KHNP also maintain global medium-term note programs in the aggregate amount of US\$8 billion, of which approximately US\$4.6 billion remains currently available for future drawdown. See also Item 5B. Liquidity and Capital Resources Capital Resources.

**Environmental Programs**

The Environmental Policy Basic Act, the Air Quality Preservation Act, the Water Quality Preservation Act, the Marine Pollution Prevention Act and the Waste Management Act, collectively referred in this report as the Environmental Acts, are the major laws of Korea that regulate atmospheric emissions, waste water, noise and other emissions from our facilities, including power generators and transmission and distribution units. Our existing facilities are currently in material compliance with the requirements of these environmental laws and international agreements, such as the United Nations Framework Convention on Climate Change, the Montreal Protocol on Substances that Deplete the Ozone Layer, the Stockholm Convention on Persistent Organic Pollutants and the Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal. In order to foster coordination among us and our generation subsidiaries in respect of climate change and development of renewable energy sources, we formed the Committee on Climate Change and the Committee on Renewable Energy in 2005. In 2011 the Ministry of Public Administration and Safety issued guidelines for reduction in nationwide greenhouse gas emissions and energy conservation, pursuant to which we are intensifying our efforts to reduce the levels of carbon emission in order to help meet the national target for greenhouse gas emission reduction.

In 2005, we became the first public company in Korea to join the United Nations Global Compact, an international voluntary initiative designed to hold a forum for corporations, United Nations agencies, labor and civic groups to promote reforms in economic, environmental and social policy. As part of our involvement with such initiative, since September 2005, we have issued an annual report named the Sustainability Report to disclose our activities from the perspectives of economy, environment and society, in accordance with the reporting guidelines of the Global Reporting Initiative, the official collaborating center of the United Nations Environment Program that works in cooperation with United Nations Secretary General. In November 2010, our report on the Communication on Progress was reviewed favorably by the United Nations Global Compact and was subsequently posted on its website in recognition of our strong commitment to compliance with the principles of United Nations Global Compact. In 2008 and 2009, our sustainability report was selected as a notable report on Communication on Progress by the United Nations Global Compact.

Atmospheric emissions from generating plants burning fossil fuels include, among others, sulfur dioxide, nitrogen oxide and particulates. The Environmental Acts establish emissions standards relating to, among other things, sulfur dioxide, nitrogen oxide and particulates. Such standards have become more stringent from January 1999 to reduce the amount of permitted emissions.

The table below sets forth the number of emission control equipment installed at coal-fired power plants by our generation subsidiaries as of December 31, 2011.

	<b>KOSEP</b>	<b>KOMIPO</b>	<b>KOWEPO</b>	<b>KOSPO</b>	<b>EWP</b>
Flue Gas Desulphurization System	12	12	12	12	13
Selective Non-Catalytic Reduction System					3
Selective Catalytic Reduction System	9	16	12	15	13
Electrostatic Precipitation System	14	14	12	14	18
Low NO <sub>2</sub> Combustion System	18	16	26	30	30
Total	53	58	62	71	77

**Table of Contents**

The table below sets forth the amount of annual emission from all generating facilities of our generation subsidiaries for the periods indicated. The amount of CO<sub>2</sub> emissions is expected to increase in 2012 due to the construction of additional coal thermal power plants but is expected to decrease thereafter, principally due to an increased use of nuclear power and renewable energy.

Year	Sox (g/MWh)	NOx (g/MWh)	Dust (g/MWh)	CO <sub>2</sub> (kg/MWh)
2009	169	308	8	489
2010	158	283	8	467
2011	145	278	8	452

In order to comply with the current and expected environmental standards and address related legal and social concerns, we intend to continue to install additional equipment, make related capital expenditures and undertake several environmentally friendly measures to foster community goodwill. For example, in October 2004, we and our generation subsidiaries reached an agreement with the Ministry of Environment and civic organizations to completely remove polychlorinated biphenyl, or PCB, a toxin, from the insulating oil of our transformers by 2025. In addition, when constructing certain large new transmission and distribution facilities, we assess and disclose their environmental impact at the planning stage of such construction, as well as consult with local residents, environmental groups and technical experts to generate community support for such projects. We exercise additional caution in cases where such facilities are constructed near ecologically sensitive areas such as wetlands or preservation areas. We also make reasonable efforts to minimize any negative environmental impact, for example, by using more environmentally-friendly technology and hardware. In addition, we also undertake measures to minimize losses during the transmission and distribution process by making our power distribution network more energy-efficient in terms of loss of power, as well as to lower consumption of energy, water and other natural resources. In addition, we and our subsidiaries have acquired the ISO 14000 certification which is an environmental management system widely adopted internationally and have made it a high priority to make our electricity generation and distribution more environmentally friendly.

Our environmental measures, including the use of environmentally friendly but more expensive parts and equipment and budgeting capital expenditures for the installation of such facilities, may result in increased operating costs and liquidity requirement. The actual cost of installation and operation of such equipment and related liquidity requirement will depend on a variety of factors which may be beyond our control. There is no assurance that we will continue to be in material compliance with legal or social standards or requirements in the future in relation to the environment.

As part of our long-term strategic initiatives, we plan to take other measures designed to promote the generation and use of environmentally friendly, or green, energy. See Item 4B. Business Overview Strategy.

**Renewable Energy**

Some of our generation facilities are powered by renewable energy sources, such as solar energy, wind power and hydraulic power. While such facilities are currently insignificant as a proportion of our total generating capacity or generation volume of our generation subsidiaries, we expect that the portion will increase in the future, especially since we are required to comply with the Renewable Portfolio Standard policy as described below.



**Table of Contents**

The following table sets forth the generating capacity and generation volume in 2011 of our generation facilities that are powered by renewable energy sources.

	Generating Capacity (megawatts)	Generation Volume (gigawatt-hours)
Hydraulic Power	625.5	1,519.9
Wind Power	81.5	154.7
Solar Energy	25.0	25.0
Fuel Cells	5.8	40.3
By-product gas	116.0	85.0
Subtotal	853.8	1,824.9
As percentage of total <sup>(1)</sup>	1%	0.41%

*Note:*

(1) As a percentage of the total generating capacity or total generation volume, as applicable, of all of our generation subsidiaries. In order to deal with shortage of fuel and other resources and also to comply with various environmental standards, the Government has adopted the Renewable Portfolio Standard ( RPS ) policy, under which each generation subsidiary will be required to supply 2.0% and 10.0% of the total energy generated from such subsidiary in the form of renewable energy by 2012 and 2022, respectively, with fines being levied on any unit failing to do so in the prescribed timeline. We currently estimate that, under the current RPS policy, our generation subsidiaries will incur approximately Won 45 trillion in additional capital expenditure over the next 10 years. We expect that such additional capital expenditure will be covered by a corresponding increase in electricity tariff. However, there is no assurance that the Government will in fact raise the electricity tariff at a level sufficient to fully cover such additional capital expenditures or at all.

In July 2005, nine government-invested utilities companies, including us, entered into a Renewable Portfolio Agreement ( RPA ) with the Government in order to expand the generation and distribution of renewable energy. This agreement contemplates two phases of capacity build-up for the generation and distribution of renewable energy. During Phase I, which lasted from 2006 to 2008, we made capital expenditures of Won 520.1 billion to construct renewable energy generation capacity of 184 megawatts, of which 63 megawatts capacity has been completed to-date. During Phase II, lasting from 2009 to 2011, we and our generation subsidiaries made capital expenditures of Won 920.7 billion to construct renewable energy facilities with an aggregate generation capacity of 366 megawatts.

The breakdown of capital expenditures for Phase I and Phase II under the RPA by type of expenditure is as follows:

	Phase I (2006 - 2008)	Phase II (2009 - 2011)
	(in billions of Won)	
Facilities investment	(Won) 388.2	(Won) 830.4
Research and development	128.0	86.8
Promotion and other	3.9	3.5
Total	(Won) 520.1	(Won) 920.7

We have financed, and plan to finance in the future, our capital investment programs primarily through net cash provided by our operating activities and financing in the form of debt securities and loans from domestic financial institutions, and to a lesser extent, from overseas financial institutions. In addition, in anticipation of potential liquidity shortage, we and KHNP also maintain global medium-term note programs in the aggregate amount of US\$8 billion, of which approximately US\$4.6 billion remains currently available for future drawdown. See Item 5B.

Liquidity and Capital Resources Capital Resources.



## **Table of Contents**

### **Community Programs**

Building goodwill with local communities is important to us in light of concerns among the local residents and civic groups in Korea regarding construction and operation of generation units, particularly nuclear generation units. The Act for Supporting the Communities Surrounding Power Plants requires that the generating companies and the affected local governments carry out various activities up to a certain amount annually to address neighboring community concerns. Pursuant to this Act, we and our generation subsidiaries, in conjunction with the affected local and municipal governments, undertake various programs, including scholarships and financial assistance to low-income residents.

Under the Act for Supporting the Communities Surrounding Power Plants, activities required to be undertaken under the Act are funded partly by the Electric Power Industry Basis Fund (see Sales and Customers Electricity Rates ) and partly by KHNP as part of its budget. KHNP is required to make annual contributions to the affected local communities in an amount equal to Won 0.25 per kilowatt of electricity generated by its nuclear generation units during the one-year period before the immediately preceding fiscal year and Won 5 million per thousand kW of hydroelectric generation capacity. In addition, under the Korean tax law, KHNP is required to pay local tax levied on its nuclear generation units in an amount equal to Won 0.50 per kilowatt of their generation volume in the affected areas and Won 2 per 10 cube meters of water used for hydroelectric generation.

Prior to the construction of a generation unit, our generation subsidiaries perform an environmental impact assessment which is designed to evaluate public hazards, damage to the environment and concerns of local residents. A report reflecting this evaluation and proposing measures to address the problems identified must be submitted to and approved by the Ministry of Environment prior to the construction of the unit. Our generation subsidiaries are then required to implement the measures reflected in the approved report.

Despite these activities, civic community groups may still oppose the construction and operation of generation units (including nuclear units), and such opposition could adversely impact our construction plans for generation units (including nuclear units) and have a material adverse effect on our business, results of operations and cash flow.

### **Nuclear Safety**

KHNP takes nuclear safety as its top priority and continues to focus on ensuring the safe and reliable operation of nuclear power plants. KHNP also focuses on enhancing corporate ethics and transparency in the operation of its plants.

KHNP has a corporate code of ethics and is firmly committed to enhancing nuclear safety, developing new technologies and improving transparency. KHNP has also established the Statement of Safety Policy for Nuclear Power Plants to ensure the highest level of nuclear safety. Furthermore, KHNP invests approximately 5% of its total annual sales into research and development for the enhancement of nuclear safety and operational performance.

KHNP implements comprehensive programs to monitor, ensure and improve safety of nuclear power plants. In order to enhance nuclear safety through risk-informed assessment, KHNP conducts probabilistic safety assessments for all its nuclear power plants. In order to systematically verify nuclear safety and identify the potential areas for safety improvements, KHNP performs periodic safety reviews on a 10-year frequency basis for all its operating units. These reviews have been completed for Kori units 1, 2, 3 and 4, Yonggwang units 1, 2, 3 and 4, Ulchin units 1, 2, 3 and 4 and Wolsong units 1, 2, 3 and 4. Reviews for Younggwang units 5 and 6 are in progress. In order to enhance nuclear safety and plant performance, KHNP has established a maintenance effectiveness monitoring program based on the maintenance rules issued by the United States Nuclear Regulatory Commission, which covers all of KHNP's nuclear power plants other than the Shin-Kori unit 1. KHNP is currently developing advanced maintenance rule implementation programs for Shin-Kori unit 1 and nuclear power plants to be constructed in the future.

---

**Table of Contents**

KHNP has developed the Risk Monitoring System for operating nuclear power plants, which it implements in all of its nuclear power plants. The Risk Monitoring System is intended to help ensure nuclear plant safety. In addition, KHNP has developed and implemented the Severe Accident Management Guidelines in order to manage severe accidents for all of its nuclear power plants.

KHNP conducts various activities to enhance nuclear safety such as quality assurance audits, reviews by the KHNP Nuclear Review Board and reviews by the KHNP operational safety review team, which consists of former employees of KHNP and experts from academia and internal research institutes. KHNP maintains a close relationship with international nuclear organizations in order to enhance nuclear safety. In particular, KHNP invites international safety review teams such as the World Association of Nuclear Operators ( WANO ) Peer Review Team, the International Atomic Energy Agency ( IAEA ) and the Operational Safety Review Team to its nuclear plants for purposes of meeting international standards for independent review of its facilities. KHNP actively exchanges relevant operational information and technical expertise with its peers in other countries. For example, in March 2011, Shin-Wolsong 1 hosted the WANO Pre-Startup Peer Review and Ulchin 5 and 6 conducted the WANO Peer Review in September 2011. The recommendations and findings from this event were shared with KHNP's other nuclear plants to implement improvements at such plants.

The average level of radiation dose per unit amounted to a relatively low level of 0.53 man-Sv in 2011, which was substantially lower than the global average in 2010 of 0.79 man-Sv/year as reported in the WANO performance indicator report.

Recently, in response to the damage to the nuclear facilities (including nuclear meltdowns) in Japan as a result of the tsunami and earthquake in March 2011, the Government established a Nuclear Safety Commission in July 2011 for neutral and independent safety appraisals, subjecting nuclear power plants to additional safety inspections by governmental authorities and civic groups and requiring KHNP to perform 46 comprehensive safety improvement measures. KHNP developed 10 additional measures through benchmarking overseas cases and the internal analysis of current operations. KHNP plans to implement these measures, which are expected to be completed by 2015, at total expected cost of approximately Won 1.1 trillion.

Low and intermediate level waste, or LILW, and spent fuels are stored in temporary storage facilities at each nuclear site of KHNP. The temporary LILW storage facilities at the nuclear sites will be sufficient to accommodate all LILWs produced up to 2014. We expect that the Korea Radioactive Waste Management Corporation ( KRMC ) will complete the construction of a LILW disposal facility in the city of Gyeongju by June 2014, and starting from December 2010, LILW stored in temporary storage facilities at Ulchin and Wolsong was transferred to a disposal facility in the city of Gyeongju.

In order to increase the storage capacity of temporary storage facilities for spent fuels, KHNP has been pursuing various projects, such as installing high-density racks in spent fuel pools, building dry storage facilities and transporting the spent fuels to other nuclear units within a nuclear site. Through these activities, we expect that the storage capacity for spent fuels in all nuclear sites will be sufficient to accommodate all the spent fuels produced by 2016. The policy for spent fuel management options is currently under development.

The Radioactive Waste Management Act ( RWMA ) was enacted in an effort to centralize the disposal of spent fuel and low and intermediate level radioactive waste and enhance the security and efficiency of related management processes. The RWMA became effective on January 1, 2009 and designated KRMC to manage the disposal of spent fuels and low and intermediate level radioactive waste. Pursuant to the RWMA, the Government established the Radioactive Waste Management Fund. The management expense for LILW is paid when LILW is transferred to KRMC, and the charge for spent fuel is paid based on the quantity of spent fuel generated every quarter.

All of KHNP's nuclear plants are in compliance with Korean law and regulations and the safety standards of the IAEA in all material respects.

**Table of Contents**

Since the submission of our annual report on Form 20-F in June 2011, there have been no significant safety-related events or accidents in KHNP's nuclear power plants that would have a material adverse effect on us.

**Decommissioning**

Decommissioning of a nuclear power unit is the process whereby the unit is shut down at the end of its life, the fuel is removed and the unit is eventually dismantled. KHNP implements a dismantling policy under which dismantling would take place five to ten years after the unit's permanent shutdown. Kori unit-1, the first nuclear power plant in Korea, commenced its operation in 1978 and reached the end of its intended life in June 2007. KHNP obtained an approval to extend the Kori operation for another 10 years, and the unit resumed its operations in January 2008. Wolsong unit-1, the second nuclear power plant in Korea, will reach the end of its intended lifetime in November 2012. Applications for continued operation of Wolsong unit-1 were submitted to the Ministry of Education, Science and Technology in December 2009 and are currently being reviewed by the Nuclear Safety and Security Commission. Wolsong unit-1 underwent facility improvement in July 2011 and has since normally operated at 100% capacity.

While it does not carry a cash reserve for its decommissioning liability, KHNP retains financial responsibility for decommissioning its units. KHNP has accumulated the decommissioning cost as a liability since 1983. The decommissioning costs of nuclear facilities were estimated based on the study by the related committee and defined by the Radioactive-Waste Management Act, which requires KHNP to credit annual appropriations separately. The decommissioning costs are reviewed by the Ministry of Knowledge Economy every two years.

For the accounting treatment of decommissioning costs, see Item 5A. Operating Results Critical Accounting Policies Decommissioning Costs.

**Overseas Activities**

We are actively engaged in a number of overseas activities. We believe that such activities help us to facilitate procurement of requisite fuels and diversify our revenue streams by leveraging the operational experience of us and our subsidiaries gathered from providing a full range of services, such as power plant construction, and specialized engineering and maintenance services in Korea, as well as to establish strategic relationships with a number of countries that are or may become providers of fuels.

The table set below summarizes the overseas projects that we are currently pursuing based on binding agreements.

<b>Country</b>	<b>Project Period</b>	<b>Project Description</b>
Ilijan, Philippines	March 1999 to June 2022	1,200-megawatt combined-cycle power plant project (BOT) <sup>(1)</sup>
Naga, Philippines	Since February 2006	242.5-megawatt power plant (O&M/M&A) <sup>(2)</sup>
Cebu, Philippines	June 2011 to May 2036	200-megawatt CFBC <sup>(3)</sup> coal-fired power plant (BOO) <sup>(4)</sup>
Shanxi, China	April 2007 to April 2056	5,489-megawatt coal-fired power plants (BOO) <sup>(4)</sup> and coal mine projects
Gansu, China	September 2005 to April 2029	99-megawatt wind power plants (BOO) <sup>(4)</sup>
Inner Mongolia, China	May 2007 to December 2035	990-megawatt wind power plants (BOO) <sup>(4)</sup>

**Table of Contents**

<b>Country</b>	<b>Project Period</b>	<b>Project Description</b>
Liaoning, China	April 2010 to April 2031	226-megawatt wind power plant (BOO) <sup>(4)</sup>
Thailand	2011 to 2037	Purchase of minority equity interest in Navanakorn Electric Co. (BOO) <sup>(4)</sup>
Indonesia	Since July 2010	Purchase of equity interest of PT Bayan Resources Tbk
Indonesia	Since July 2009	Purchase of equity interest of PT Adaro Energy Tbk
Bhutan	April 2011 to June 2012	Bhutan Semtohka substation upgradation with 220/66kV50/63MVA transformer
India	September 2011 to 2013	11kV feeder separation program for separation of non-agricultural and agricultural consumers, replacement of bare Low Tension line with Aerial Bunched cable and meterization of unmetered consumers in rural areas
India	January 2012 to December 2048	Purchase of a minority equity interest of Pioneer Gas Power of India for construction, operation and maintenance of a combined-cycle power plant
Nigeria	Since March 2006	Exploration of oil and gas for two offshore blocks
Nigeria	Since October 2008	Development of downstream projects in Nigeria
Nigeria	Since 2007	Acquisition of majority interest in Egbin Power Plc, a power plant owner and operator in Nigeria
Jordan	May 2009 to December 2035	373-megawatt combined-cycle power plant (BOO) <sup>(4)</sup>
Jordan	March 2012 to June 2038	Construction and operation of a diesel engine power plant in Almanakher, Jordan
Saudi Arabia	July 2009 to March 2033	1,204-megawatt oil-fired power plant (BOO) <sup>(4)</sup>
UAE	March 2011 to March 2039	1,600-megawatt combined-cycle gas power plant project (BOO) <sup>(4)</sup>
UAE	December 2009 to May 2020	Construction, operation and support for four 1,400-megawatt nuclear power generation units
Niger	Since December 2009	Share subscription of ANCE, a uranium development company
Australia	Since January 2008	Moolarben thermal coal mine development

**Table of Contents**

<b>Country</b>	<b>Project Period</b>	<b>Project Description</b>
Australia	Since November 2007	Share subscription of Cockatoo Coal Limited, a coal development company
Australia	Since July 2010	Bylong thermal coal mine development
Canada	December 2007 to August 2012	Uranium exploration project in the Cree East
Canada	January 2008 to May 2013	Uranium exploration project in the Waterbury Lake
Canada	Since June 2009	Share subscription of Denison Mines, a uranium development company
United States	2013 to 2065	Construction and operation of a solar power plant in Nevada (BOO) <sup>(4)</sup>
United States	Since February 2012	Acquisition of minority interest in Strathmore Minerals Corp. in relation to a uranium development project in Wyoming
Mexico	January 2011 to May 2038	433-megawatt combined-cycle power plant project (BOO) <sup>(4)</sup>
France	June 2009 to 2015	Construction and operation of a uranium enrichment plant
Kazakhstan	February 2011 to 2013	Modernization of 17 substations in Actub, Kazakhstan
Kazakhstan	Since March 2011	Construction of 325 km of 220kV transmission lines in Moniak, Kazakhstan

*Notes:*

- (1) Represents build, operate and transfer projects.
- (2) Represents rehabilitation, operation, maintenance and management projects
- (3) Represents circulating fluidized bed combustion projects.
- (4) Represents build, own and operate projects.

While strategically important, we believe that our overseas activities, as currently being conducted, are not in the aggregate significant in terms of scope or amount compared to our domestic activities. In addition, a number of the overseas contracts currently being pursued are based on non-binding memoranda of understanding and the details of such projects may significantly change during the course of negotiating the definitive agreements.

A description of the material overseas activities by us and our subsidiaries by key geographic region is provided below.

**Asia***China*

In September 2005 and April 2006, we and China Datang Corporation of the People's Republic of China formed joint ventures to build four wind-powered generation projects in China, consisting of one unit in Gansu province with total capacity of 49.3 megawatts and three units in Inner Mongolia with total capacity of

---

**Table of Contents**

139.4 megawatts. Since then, one unit with capacity of 49.5 megawatts has been added in Gansu and thirteen units with total capacity with 851.4 megawatts have been added in Inner Mongolia. In Liaoning province, we have developed five units under an understanding with the government of Chaoyang City. In November 17, 2011, one unit with total capacity of 45 megawatts was added to Inner Mongolia and one unit with total capacity of 48 megawatts was added to Liaoning. The joint ventures were capitalized with RMB 271 million for the Gansu projects, RMB 3,252 million for the Inner Mongolia projects and RMB 678 million for the Liaoning projects. One-third of the investment was funded with equity contribution and the remaining two-thirds with debt. We and China Datang Corporation hold 60:40 equity interests in each of the aforementioned joint ventures and we participate in the projects through our wholly-owned subsidiary, KEPCO Neimnggu International Limited. Of the 25 wind power generation units constructed in the aforementioned areas in China, 18 units with a total capacity of 826 megawatts are currently in operation. These projects are currently generating additional revenue from the clean development mechanism (CDM) business.

We formed a limited partnership with Shanxi International Electricity Group and Deutsche Bank in China to develop and operate power projects and coal mines in Shanxi province, China, which was approved by the Chinese government in April 2007. As of December 31, 2011, the total installed capacity was 5,489 megawatts and our equity ownership in the partnership was 34%, representing 1,867 megawatts in installed capacity.

### *Philippines*

We are currently engaged in three major power projects in the Philippines: (i) a build, operate and transfer of a 1,200-megawatt combined-cycle power plant project in Ilijan, construction of which began in November 1997 and was completed in June 2002, and operation by us until 2022 (the project cost of the Ilijan project was US\$710 million, for which project finance on a limited recourse basis was provided), and (ii) acquisition of a 40.0% equity interest in SPC Power Corporation, an independent power producer operating a 242.5-megawatt Naga power complex in Cebu, the Philippines, in February 2006 for which rehabilitation, operation, maintenance and management was completed in March 25, 2012 followed by six months of operation and maintenance thereafter and (iii) a build, operate and own of a 200-megawatt CFBC coal power plant in Cebu for which construction began in February 2008 and was completed in May, 2011, followed by operation thereof until 2036. The project cost of the Cebu project was US\$451 million, for which project finance on a limited recourse basis was provided.

On December 24, 2011, our contract to operate and maintain a 650-megawatt oil-fired power plant project in Malaya expired. We are currently in the process of transferring this project to National Power Corporation, a state-owned company in the Philippines. We expect the transfer process to take up to two years.

### *Indonesia*

On July 23, 2009, we, together with KOSEP, purchased a 1.5% equity interest in PT Adaro Energy Tbk ( Adaro ) for an aggregate purchase price of US\$46 million. Adaro is the second largest coal producer in Indonesia and the fifth largest coal exporter in the world, and has produced a total of 50 million tons of coal in 2011. As part of this investment, we are entitled to an annual coal procurement of 3 million tons per year.

On August 19, 2010, we purchased a 20% equity interest in PT Bayan Resources Tbk ( Bayan ), an Indonesian mining company, for a purchase price of US\$518 million. Bayan is engaged in open cut mining of various coal qualities from mines located primarily in East and South Kalimantan, and has produced 20 million tons of coal in 2011. In addition, because Bayan owns the largest coal terminal and the only floating transfer-station in Indonesia, we believe that the acquisition will improve our access to much-needed transportation infrastructure within Indonesia. As part of this investment, we are entitled to an annual coal procurement of 2 million tons per year between 2012 and 2014 and 7 million tons per year beginning in 2015.

We expect that both of our investments in Indonesia will help us secure a more stable supply of coal for power generation and help us hedge against fluctuations in fuel prices.



## **Table of Contents**

### *Kazakhstan*

On February 23, 2011, a consortium led by us, Hyundai Engineering & Construction and Hyundai Corporation won a power transmission and variation project from Kazakhstan Electricity Grid Operating Company ( KEGOC ), a Kazakhstan state-run company. This US\$100 million project will be conducted on an engineering, procurement and construction (EPC) basis, in connection with which are modernizing 17 substations in Actub, Kazakhstan. The project is expected to be completed by the end of 2013. The consortium also won an additional US\$46 million project from KEGOC in March 1, 2011 to construct power transmission facilities in Moniak, Kazakhstan. The Moniak project involves the construction of 200kV transmission lines with a total length of 325km, and is expected to be completed by the end of 2012.

### *Bhutan*

In April 2011, a consortium led by us entered into an agreement with the Bhutan Electricity Authority for the upgrade of the Semtohka substation and construction of a power transformer for an estimated project cost of US\$2.6 million. Due for completion by the end of June 2012, this project is expected to create 63 megavolt-amperes of transformer capacity.

### *India*

In September 2011, a joint venture company established by us and Megha Engineering & Infrastructures Ltd. ( Megha ) entered into an agreement with M.P. Paschim Kshetra Vidyut Vitaran Co. Ltd., Indore ( Paschim ) and M.P. Poorv Kshetra Vidyut Vitaran Co. Ltd., Jabalpur ( Poorv ), each a state-controlled electricity provider in India, to improve the overall power distribution network in Madhya Pradesh, India through a feeder separation program, including improvements of transmission lines and installation of power meters in seven rural areas. The joint venture company will be responsible for five of the projects in conjunction with Megha. In addition, we will be separately responsible for the remaining two projects. The total project cost is estimated to be US\$100 million. Construction for the project began in September 2011 and is expected to be completed in 2013.

In March 2012, our wholly-owned generation subsidiary, KOWEPO, purchased a 22.7 % equity interest in Pioneer Gas Power for a purchase price of approximately US\$20 million to construct a 388-megawatt combined-cycle power plant in Maharashtra, India. The total size of the project, which commenced in January 2012, is expected to be approximately US\$250 million and we expect the power facility to begin commercial operation in 2014. KOWEPO will be responsible for operation and maintenance of the project.

### *Thailand*

On December 23, 2011, our wholly-owned generation subsidiary, KOMIPO, agreed to purchase a 29% equity interest in Navanakorn Electric Co., a Thailand power company, to jointly develop a combined-cycle power plant project in Thailand with generation capacity of 111 megawatts. The total project cost is currently estimated to be US\$187 million, and KOMIPO expects to invest approximately US\$15.6 million into this project. This project is expected to involve two years of construction starting from 2011 and 25 years of operation beginning in 2013.

### *Middle East*

#### *Jordan*

In July 2008, a consortium consisting of us and Xenel was selected as the preferred bidder to build, own and operate a gas-fired power plant with installed capacity of 373 megawatts in Al Qatrana, near Amman, Jordan. Construction of the power plant began in May 2009 and was completed in December 2011. The total cost of construction was approximately US\$460 million. Operation of the power plant will be for a period of 25 years lasting until 2036. We and Xenel established a joint venture to oversee the project, with us and Xenel holding an 80:20 equity interest, respectively. We expect our total investment in the project to be approximately US\$114 million. We believe that this project will help us expand our business in the Middle East and position us as a competitive power producer in the global market.

**Table of Contents**

On January 30, 2012, a consortium consisting of us, Mitsubishi Corporation and Wartsila Development & Financial Services was selected by National Electric Power Corporation, a state-run electricity provider in Jordan, to construct and operate a diesel engine power project in Almanakher with an expected total generation capacity of 600 megawatts. This project involves two years of construction beginning in April 2012 followed by 25 years of operation upon target completion of the power plant in 2014. Phase I of the project consists of partial completion of construction by May 2013, after which we will begin partial operations of the power plant. The total project cost is currently estimated to be US\$800 million, of which approximately 25% will be financed through equity investments by the consortium members and the remaining 75% through debt. We expect to invest US\$120 million and hold a 60% equity interest in the consortium. We plan to establish a subsidiary for the purpose of participating in the consortium.

*Saudi Arabia*

On December 1, 2008, we formed a consortium with ACWA Power International of Saudi Arabia and submitted a bid for the 1,204 megawatt oil-fired power project in Rabigh, Saudi Arabia. In March 2009, we were selected as the preferred bidder against competitors that included Suez of Belgium, IP of Britain and Oger of Saudi Arabia. The project's target completion date is 2013 and the project will involve operation of the plant for 20 years with an estimated project cost of US\$2.5 billion. We are expected to hold a 40.0% equity interest in the joint venture which will oversee the project. On July 11, 2009, we entered into a power purchase agreement with Saudi Electricity Company to construct and operate a heavy oil power plant at Rabigh in Saudi Arabia.

*United Arab Emirates*

On December 27, 2009, following an international open bidding process, we entered into a prime contract with the Emirates Nuclear Energy Corporation (the ENEC), a state-owned nuclear energy provider of the United Arab Emirates (UAE), to design, build and help operate four civil nuclear power generation units to be located in Braka, a region approximately 270 kilometers from Abu Dhabi, for the UAE's peaceful nuclear energy program. The contract amount for the project is US\$18.6 billion, with the term of the contract to last from December 27, 2009 to May 1, 2020. Under the contract, we and the subcontractors, some of which are our subsidiaries, are to perform various duties in connection with the project, including, among others, (i) designing and constructing four nuclear power generation units (each with a capacity of 1,400 megawatts), (ii) supplying nuclear fuel for three fuel cycles including initial loading (with each cycle currently projected to last for approximately 18 months), and (iii) providing technical support, training and education to the plant operation personnel. The target completion dates for the four units are set for May 2017, May 2018, May 2019 and May 2020. In addition, in order to foster a long-term strategic partnership and stable management of the units post-construction, we currently plan to make an equity investment in an operation company to be established by ENEC. Details of such investment, including its size and structure, remain subject to further negotiation at this time, and we plan to make further disclosures regarding such investment in due course and as appropriate.

On October 18, 2010, a consortium led by us was selected by Abu Dhabi Water & Electricity Authority (ADWEA), a state-run utilities provider in the United Arab Emirates, as the preferred bidder in an international bidding for the construction and operation of the combined-cycle natural gas-fired electricity generation facilities in Shuweihat, UAE with an expected aggregate generation capacity of 1,600 megawatts. On February 15, 2011, the consortium entered into a formal contract with ADWEA for the construction and operation of the generation facilities. This project involves three years of construction starting from March 2011, and 25 years of operation following its completion in March 2014 until March 2039. The total project cost is currently estimated to be US\$1.5 billion, of which approximately 20% will be financed through equity investments by the consortium members and the remaining 80% through project financing. Equity interests in the consortium are owned by ADWEA (60.0%), Sumitomo (20.4%) and us (19.6%), subject to further change. The total amount of our equity investment in the project is expected to be approximately Won 60.4 billion, and we are participating in this project through a special purpose vehicle.

**Table of Contents***North America**United States*

On October 31, 2011, a consortium consisting of our wholly-owned generation subsidiary, KOMIPO, and POSCO Engineering Co., was selected by the City of Boulder as the winning bidder in an auction for the construction and operation of a US\$1 billion solar power plant project in Nevada, the United States with generation capacity of 300-megawatts. The total size of the project is expected to be approximately US\$300 million, and KOMIPO expects to invest approximately US\$90 million and hold a 30% interest in the project. Construction of the project is expected to commence in September 2013 and be completed by December 2014, to be followed by 50 years of operation from 2015 to 2065.

On February 1, 2012, we signed an agreement with Strathmore Minerals Corp. ( Strathmore ) to acquire approximately 14 million common shares of Strathmore for a purchase price of US\$8 million. As a result of this acquisition, we hold approximately 14% of the equity interests of Strathmore. Under this agreement, we have the right to purchase a portion of any future annual uranium production from Strathmore's properties in Gas Hills, Wyoming. The proceeds from our investment will be used for a Phase I exploration and development program. Upon completion of Phase I, we have the right to participate in the Phase II development based on an option to purchase up to a total 40% interest in the Gas Hills Properties for an additional investment of US\$32 million. With this investment, we will be able to off-take, for the duration of the project operation, 40% of approximately 400 tons of uranium that are currently expected to be produced from these properties.

*Canada*

On December 14, 2007, a consortium consisting of four Korean companies, namely us, Korea Resources Corporation, Hanwha Corporation and SK Energy Co., Ltd., entered into an agreement with CanAlaska Uranium, Ltd., a uranium exploration company located in Canada ( CanAlaska ), to carry out a joint uranium exploration project to search for uranium deposits across mines in the Cree East area, Saskatchewan, Canada. Under the terms of the agreement, the consortium and CanAlaska each hold a 50.0% equity interest in the four-year project. The estimated capital expenditure for the project is C\$19 million, all of which is to be borne by the consortium through cash contributions over the term of the project. We have invested C\$4.75 million for which we have received a 12.5% equity interest in the project at the end of 2010. If additional capital expenditure is required, the amount in excess of C\$19 million is to be shared equally between CanAlaska and the consortium.

On January 30, 2008, a consortium consisting of us, KHNP, Korea Nuclear Fuel Co., Ltd., Hanwha Corporation and Gravis Capital Corp., a Canadian company, entered into an agreement with Fission Energy Corp., a uranium exploration company located in Canada, to carry out a joint uranium exploration project in Waterbury Lake, Saskatchewan, Canada. Under the terms of the agreement, each of the consortium and Fission Energy Corp. holds a 50% equity interest in the three-year project. The estimated capital expenditure for the project is C\$15 million, all of which is to be borne by the consortium through cash contributions over the term of the project. Under the terms of the agreement, the consortium is required to purchase a 50% equity interest in the project held by Fission Energy Corp. upon the final payment of cash contributions by the consortium during the term of the project. We have a 20% equity interest in the project and are expected to make estimated cash contributions of C\$6 million. During the three-year exploration period, which ended in April 2010, we discovered a high grade uranium mineralization after drilling 20 sites out of 97 sites. On August 16, 2010, the consortium entered into an additional agreement consisting of a limited partnership agreement, a shareholders agreement and an operating service agreement with Fission Energy Corp. and extended the exploration period to May 2013 in order to enlarge known mineralization and to produce a resource estimate. On April 12, 2011, Fission Energy Corp. exercised a Back-In Option under the limited partnership agreement dated August 16, 2010, and provided to the consortium consideration of C\$6 million. As a result of the exercise of the Back-In Option, the Fission Energy Corp.'s equity interest increased by 10% and the consortium's equity interest was reduced by 10%. Currently, Fission Energy Corp. and the consortium hold a 60% and 40% equity interest, respectively, in the special purpose entity established to operate this project, of which we hold a 16% equity

---

**Table of Contents**

interest. Subsequent to the exercise of the Back-In Option, the consortium and Fission Energy Corp. is required to make estimated cash contributions for the project on the basis of their respective equity interest.

On June 15, 2009, we, together with KHNP, entered into a definitive agreement with Denison Mines Corporation ( Denison ) under which we currently hold a 15.1% equity interest in Denison Mines and remain the largest shareholder thereof. Under the terms of the agreement, we are entitled to procure up to approximately 20.0% of Denison s current annual uranium production, during the period from 2010 to 2015. For the period from 2016, we will also be entitled to procure up to 20.0% of Denison s annual uranium production provided that we beneficially own 10.0% or more of Denison s share capital. We procured 159 metric tons of uranium in 2011 and expect such amounts to increase in the near future.

*Mexico*

On August 2, 2010, a consortium led by us was selected as the preferred bidder in an international auction for the construction and operation of the Norte II gas-fueled combined-cycle electricity generation facility in Chihuahua, Mexico, as ordered by the Comision Federal de Electricidad ( CFE ) of Mexico. This facility is expected to have a generation capacity of 433 megawatts, and the project will be undertaken on a build, own and operate basis. The total size of the project, which commenced in September 2010 and is expected to end in May 2038, is expected to be approximately US\$430 million. We hold a 56% interest in the consortium, whose other members are Samsung C&T (with a 34% interest) and Techint, a Mexico company (with a 10% interest). The consortium established a special purpose vehicle, KST Electric Power Company ( KST ), to act as the operating entity, and on September 7, 2010, KST entered into a power purchase agreement with CFE to construct and operate a combined-cycle power plant at Chihuahua in Mexico. In October 2010 KST was licensed by the Mexican government as an independent power producer, which allows it to produce and sell electricity to CFE during the specified contract period.

*Australia*

On November 7, 2007, we and EWP entered into a share subscription agreement with Cockatoo Coal Limited ( Cockatoo ), a coal exploration and mining company located in Australia. We and EWP currently hold a 4.7% aggregate equity interest in Cockatoo after having made a total investment of A\$21.8 million. Cockatoo has several coal exploration projects in Queensland and New South Wales and one production project in Bowen Basin, Queensland, Australia.

On January 2, 2008, a consortium consisting of Korea Resources Corporation, Hanwha Corporation, us and four of our wholly-owned generation subsidiaries, namely, KOSEP, KOMIPO, KOWEPO and KOSPO, entered into an agreement with Felix Resources Limited, an Australian coal mining company, to develop the Moolarben coal mine located in Western Coal Fields, New South Wales, Australia. Under the terms of agreement, the consortium purchased 10% equity interest in the Moolarben project from Felix, of which we and our four generation subsidiaries own an aggregate of 5%, 80% equity interest of the project is held by Felix which was acquired by Yancoal Australia in December 2009. In 2011 Moolarben produced 5 million tons of coal, of which we imported 2.5 million tons in 2011. Our four generation subsidiaries have a coal off-take agreement for a total of 2.5 million tons of coal per annum.

On July 5, 2010, Kepco Australia Pty Ltd., our wholly-owned subsidiary, entered into an agreement with Anglo American Metallurgical Coal Assets Eastern Australia Ltd. to acquire 100% of the equity interest in Anglo Coal (Bylong) Pty Ltd., a wholly-owned subsidiary of Anglo, for a purchase price of A\$402 million. Bylong owns a bituminous coal mine in New South Wales, Australia. From this acquisition, we expect to secure an average of 7.5 million tons of bituminous coal per year from this mine during the period from 2016 to 2045. We and Cockatoo are currently undergoing a feasibility study for this project to explore and develop coal that is of export quality.

---

## **Table of Contents**

### ***Africa***

In August 2005, a consortium consisting of us, Korea National Oil Corporation, a Government-controlled enterprise, and Daewoo Shipbuilding & Marine Engineering won a bid from the federal government of Nigeria for exploration and production of oil in two off-shore blocks. This consortium holds 60.0% of the equity interest in the special purpose vehicle established to carry out the project regarding these two blocks and we hold 8.8% of the interest in the consortium. In March 2006, the consortium entered into production sharing contracts with Nigerian National Petroleum Corporation in connection with this project. Under these contracts, if the consortium is successful in finding oil, it will be entitled to operate the related facilities for 20 years. However, in January 2009, the government of Nigeria unilaterally decided to void allocation of the oil blocks granted to the consortium based on a claim that the consortium failed to pay full amount of the consideration. Korea National Oil Corporation has filed a suit in the Nigerian court challenging this assertion. On August 20, 2009, the Federal High Court in Nigeria ruled that the Nigerian government illegally cancelled offshore exploration rights with respect to the deep sea oil exploration projects and banned the Nigerian government from further interfering with the consortium. The Nigerian government subsequently appealed the ruling and the case is currently pending in court.

Another consortium consisting of us, KNOC and POSCO Engineering & Construction commenced the development of the downstream projects in Nigeria in 2006. While an agreement in-principle was entered into with the Nigerian authorities regarding the project development in October 2008, due to the court proceedings discussed above, these projects are currently on hold.

In October 2007, we invested US\$9.1 million in KEPCO Energy Resource Nigeria Ltd., or KERNL, a joint venture with Energy Resource Ltd., a Nigerian company. We currently own 30.0% of KERNL's equity capital. In May 2007, KERNL entered into a share purchase agreement with the Nigerian government for the purchase of 51.0% of the equity capital of Egbin Power Plc in Nigeria, which owns and operates the Egbin power plant, for a consideration of approximately US\$280 million. The acquisition remains to be completed.

On December 30, 2009, we and KHNP, our wholly-owned nuclear generation subsidiary, entered into a definitive agreement with Areva NC Expansion ( ANCE ) to purchase 1.0 million shares, or 15.0%, of the share capital of ANCE at an aggregate purchase price of EUR 170 million. We are entitled to procure up to approximately 10.0% of Imouraren SA's annual uranium production in Niger, which is estimated to be 770 metric tons based on ANCE's annual production plan during the period between 2015 and 2046. Imouraren SA is an ANCE-invested mine operating company.

### ***Europe***

#### ***France***

On June 30, 2009, KHNP acquired a 2.5% equity interest in Societe D. Enrichissement Du Tricastin ( SET Holding ), which was established by Areva for the purpose of constructing and operating a uranium enrichment plant in Tricastin, France. KHNP has invested approximately 129 million Euros for the 2.5% equity interest, and Kansai Electric Power in Japan and Suez Energy International in Belgium have also acquired 2.5% and 5.0% equity interest, respectively, in SET Holding. The maximum production capability of the uranium enrichment plant is eight million Separative Work Unit or, SWU. We believe that this investment will help us secure a more stable and economical supply of enriched uranium.

### ***North Korea***

#### ***Kaesong Complex***

Since 2005, we have provided electricity to the industrial complex located in Kaesong, North Korea, which was established pursuant to an agreement made during the summit meeting of the two Koreas in June 2000. The Kaesong complex is the largest economic project between the two Koreas and is designed to combine the

## **Table of Contents**

Republic's capital and entrepreneurial expertise with the availability of land and labor of North Korea. In March 2005, we built a 22.9 kilovolt distribution line from Munsan substation in Paju, Gyeonggi Province to the Kaesong complex and became the first to supply electricity to pilot zones such as ShinWon Ebenezer. In April 2006, we started to construct a 154 kilovolt, 16 kilometer transmission line connecting Munsan substation to the Kaesong complex as well as Pyunghwa substation in the complex and began operations in May 2007.

As of December 31, 2011, we supplied electricity to 232 units, including administrative agencies, support facilities and resident corporations, using a tariff structure identical to that of South Korea. No assurance can be given that we will not experience any material losses from this project as a result of, among other things, a project suspension or failure of the project as a result of a breakdown or escalation of hostilities in the relationship between the Republic and North Korea. See Item 3D. Risk Factors Risks Relating to Korea and the Global Economy Tensions with North Korea could have an adverse effect on us and the market value of our shares.

### *The Light Water Reactor Project*

The Korean Peninsula Development Organization, or KEDO, was chartered in March 1995 as an international consortium stipulated by the Agreed Framework, which was signed by the United States and North Korea in October 1994. KEDO signed an agreement with North Korea in December 1995 to construct two light water reactors in North Korea in return for certain nuclear nonproliferation steps to be taken by North Korea. KEDO designated us as its prime contractor to build two units of pressurized light water reactors with total capacity of 2,000 megawatts. We entered into a fixed price turnkey contract with KEDO, which became effective on February 3, 2000. However, when North Korea did not meet the conditions required for the continuation of the project, KEDO suspended the project in December 2003. Following the suspension, KEDO notified us of the termination of the project and the related turnkey contract between KEDO and us. On December 12, 2006, we entered into a transfer agreement with KEDO. According to the transfer agreement, we assumed substantially all of KEDO's rights and obligations related to the light water reactor outside of North Korea. In exchange, we waived the right to claim any expenses incurred and any potential claims by subcontractors to KEDO. Pursuant to the terms of the transfer agreement, we are required to report to KEDO the disposal or reuse of the transferred equipment. The gains from the transfer agreement will be shared with KEDO through further negotiations between the two parties.

We decided to dispose of transferred equipment in 2010, the majority of which we sold through an international open bidding process and negotiated agreements in 2011. In January 2012, we disposed of the remaining transferred equipment through a sales contract with KHNP for the remaining Nuclear Steam Supply System equipment. In March 2012, we submitted to KEDO the Final Report on Resale for the transferred equipment under the terms of the transfer agreement.

### **Insurance**

We and our generation subsidiaries carry insurance covering against certain risks, including fire, in respect of key assets, including buildings, equipment, machinery, construction-in-progress and procurement in transit, as well as, in the case of KEPCO, directors' and officers' liability insurance. We and our generation subsidiaries maintain casualty and liability insurance against risks related to our business to the extent we consider appropriate. These insurance and indemnity policies, however, cover only a portion of the assets that we own and operate and do not cover all types or amounts of loss that could arise in connection with the ownership and operation of these assets. Other than KHNP, neither we nor our generation subsidiaries separately insure against terrorist attacks.

Substantial liability may arise from the operation of nuclear-fueled generation units and from the use and handling of nuclear fuel and possible radioactive emissions associated with such nuclear fuel. KHNP maintains property and liability insurance against risks of its business to the extent required by the related law and regulations or considered as appropriate and otherwise self-insures against such risks. KHNP carries insurance

**Table of Contents**

for its generation units against certain risks, including property damage, nuclear fuel transportation and liability insurance for personal injury and property damage. Each of KHNP's four power plant complexes has property damage insurance coverage of up to US\$1 billion per accident in respect of such plant complex, which includes property insurance coverage for acts of terrorism up to US\$300 million. KHNP maintains a nuclear liability insurance for personal injury and third-party property damage for a coverage of up to Won 50 billion per accident per plant complex, for a total coverage of Won 250 billion. KHNP is also the beneficiary of a Government indemnity with respect to such risks for damage claims of up to Won 50 billion per nuclear plant complex, for a total coverage of Won 250 billion. Under the Nuclear Damage Compensation Act of 1969, as amended, KHNP is liable only up to 300 million Special Drawing Rights, or SDRs, which amounts to approximately US\$461 million, at the rate of 1 SDR = US\$1.5357 as posted on the Internet homepage of the International Monetary Fund on March 12, 2012, per single accident; provided that such limitation will not apply where KHNP intentionally causes harm or knowingly fails to prevent the harm from occurring. KHNP will receive the Government's support, subject to the approval of the National Assembly, if (i) the damages exceed the insurance coverage amount of Won 50 billion and (ii) the Government deems such support to be necessary for the purposes of protecting damaged persons and supporting the development of nuclear energy business. The amount of Government's support to KHNP for such qualifying nuclear incident would be 300 million SDRs, or the limit of KHNP's liability, minus the coverage amount of up to Won 50 billion as determined by the National Assembly. While KHNP carries insurance for its generation units and nuclear fuel transportation, the level of insurance is generally adequate and is in compliance with relevant laws and regulations, and KHNP is the beneficiary of a certain Government indemnity which covers a portion of liability in excess of the insurance, such insurance is limited in terms of amount and scope of coverage and does not cover all types or amounts of losses which could arise in connection with the ownership and operation of nuclear plants. Accordingly, material adverse financial consequences could result from a serious accident to the extent it is neither insured nor covered by the government indemnity.

See Item 3D. Risk Factors Risks Relating to KEPCO The amount and scope of coverage of our insurance are limited.

**Competition**

We currently transmit and distribute substantially all of the electricity in Korea. In addition to us, under the Community Energy System there are also 12 other entities in Korea that are licensed to supply electricity in limited geographical areas, but their aggregate market share has to-date been insignificant. In July 2004, the Government adopted the Community Energy System to enable regional districts to source electricity from independent power producers to supply electricity without having to undergo the cost-based pool system used by our generation subsidiaries and most independent power producers to distribute electricity nationwide. A supplier of electricity under the Community Energy System must be authorized by the Korea Electricity Commission and be approved by the Minister of Knowledge Economy in accordance with the Electricity Business Act. The purpose of this system is to decentralize electricity supply and thereby reduce transmission costs and improve the efficiency of energy use. These entities do not supply electricity on a national level but are licensed to supply electricity on a limited basis to their respective districts under the Community Energy System. As of March 31, 2012, 14 districts were using this system and one other district was preparing to launch it and there were 12 independent entities that are licensed to distribute electricity in all of such 15 districts, to which we also transmit and distribute electricity. The generation capacity installed or under construction of the electricity suppliers in these 15 districts amounted to approximately 1% of the aggregate generation capacity of our generation subsidiaries as of March 31, 2012. Since the introduction of the Community Energy System in 2004, a total of 31 districts have obtained the license to supply electricity through the Community Energy System, but 16 of such districts have reportedly abandoned plans to adopt the Community Energy System, largely due to the relatively high level of capital expenditure required, the rise in fuel costs and the lower-than-expected electricity output per cost. However, if the Community Energy System is widely adopted, it will erode our market position in the generation and distribution of electricity in Korea, which has been virtually monopolized by us until recently, and may have a material adverse effect on our business, growth, revenues and profitability.

## **Table of Contents**

The electric power industry, which began its liberalization process with the establishment of our power generation subsidiaries in April 2001, may become further liberalized in accordance with the Restructuring Plan. See Item 4B. Business Overview Restructuring of the Electric Power Industry in Korea.

In the residential sector, consumers may use natural gas, oil and coal for space and water heating and cooking. However, currently there is no practical substitute for electricity for lighting and other household appliances, which is available on commercially affordable terms.

In the commercial sector, electricity is the dominant energy source for lighting, office equipment and air conditioning. For its other uses, such as space and water heating, natural gas and, to a lesser extent, oil, provide competitive alternatives to electricity.

In the industrial sector, currently there is no practical substitute for electricity in a number of applications, including lighting and power for many types of industrial machinery and processes that are available on commercially affordable terms. For other uses, such as space and water heating, electricity competes with oil and natural gas and potentially with gas-fired combined heating and power plants.

## **Regulation**

We are a statutory juridical corporation established under the KEPCO Act for the purpose of ensuring a stable supply of electric power and further contributing toward the sound development of the national economy through facilitating development of electric power resources and carrying out proper and effective operation of the electricity business. The KEPCO Act (including the amendment thereto) prescribes that we engage in the following activities:

1. development of electric power resources;
2. generation, transmission, transformation, distribution of electricity and other related business;
3. research and technology development related to the businesses mentioned in items 1 and 2;
4. overseas business related to the businesses mentioned in items 1 through 3;
5. investments or contributions related to the businesses mentioned in items 1 through 4;
6. businesses incidental to items 1 through 5;
7. development and operation of real estate holdings, subject to certain restrictions pursuant to the Presidential Decree of the KEPCO Act; and
8. other businesses entrusted by the Government.

The KEPCO Act currently requires that our profits be applied in the following order of priority:

first, to make up any accumulated deficit;



## Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

second, to set aside 20.0% or more of profits as a legal reserve until the accumulated reserve reaches one-half of our capital;

third, to pay dividends to shareholders;

fourth, to set aside a reserve for expansion of our business;

fifth, to set aside a voluntary reserve for the equalization of dividends; and

sixth, to carry forward surplus profit.

Based on our consolidated financial results as of December 31, 2011, the legal reserve was Won 1,604 billion, the reserve for business expansion was Won 15,949 billion, and the reserve for investment of social overhead capital was Won 5,277 billion.

**Table of Contents**

We are under the supervision of the Ministry of Knowledge Economy, which has principal responsibility with respect to director and management appointments and rate approval.

Because the Government owns part of our capital stock, the Government's Board of Audit and Inspection may audit our books.

The Electricity Business Act requires that licenses be obtained in relation to the generation, transmission and distribution and sale of electricity, with limited exceptions. We hold the license to generate, transmit, distribute and sell electricity. Several other companies have received a license solely for power generation. See Item 4B. Business Overview Purchase of Electricity Cost-based Pool System. Each of our six generation subsidiaries holds an electricity generation license. As of March 31, 2012, we and 12 other electricity suppliers (we nationally and the 12 other suppliers for a total of 15 districts) have obtained a license for the distribution of electricity under the Community Energy System as authorized by the Korea Electricity Commission and approved by the Minister of Knowledge Economy in accordance with the Electricity Business Act. The Electricity Business Act also governs the formulation and approval of electricity rates in Korea. See Sales and Customers Electricity Rates above.

Our operations are subject to various laws and regulations relating to environmental protection and safety. See Community Programs above.

**Proposed Sale by Us of Certain Power Plants and Equity Interests**

The following table summarizes our current plans for sale of certain of our assets. The consummation of these plans, however, is subject to, among others, related Government policies and market conditions.

Equity holdings	Primary business	Net asset value / book value as of December 31, 2011	Ownership percentage as of December 31, 2011 (in billions of Won)	Ownership percentage to be sold
KEPCO Plant Service & Engineering Co., Ltd.	Overhauling and repairing power plants	494 <sup>(1)</sup>	75.0%	15.0%
KEPCO Engineering & Construction Co., Inc	Designing and engineering power plants	380 <sup>(1)</sup>	74.9%	16.9%
LG Uplus Corp.	Electronics, telecommunications and Internet access services	284 <sup>(2)</sup>	7.5%	7.5%
Korea Electric Power Industrial Development Co., Ltd.	Electricity metering	21 <sup>(3)</sup>	29.0%	29.0%

*Notes:*

(1) Represents net asset value of a consolidated subsidiary.

(2) Represents book value recorded by us as an available-for-sale financial asset as of December 31, 2011.

(3) Represents book value recorded by us as an investment in associate as of December 31, 2011.

*KEPCO Plant Service & Engineering Co., Ltd.*

In December 2007, we completed the initial public offering of KEPCO Plant Service & Engineering Co., Ltd., or KPS, formerly our wholly-owned subsidiary, by listing approximately 20.0% of its equity interest on the Korea stock exchange for an aggregate consideration of Won 120 billion. Pursuant to the Third Phase of the Public Institution Reform Plan, we sold an additional 5.0% of KPS shares through a block sale and plan to sell an additional 15.0% of KPS's equity interest by the end of 2012 subject to prevailing market conditions. We expect to maintain control of KPS subsequent to the planned sale. As such, KPS is expected to remain as our consolidated subsidiary.



## **Table of Contents**

### *KEPCO Engineering & Construction Co., Inc.*

Pursuant to the Third Phase of the Public Institution Reform Plan announced by the Government in August 2008, we conducted the initial public offering of Korea Engineering and Construction Co., Ltd., or KEPCO E&C formerly known as Korea Power Engineering Co., Ltd., in December 2009. We owned 97.9% of KEPCO E&C's shares prior to the initial public offering and currently own 77.9% following the initial public offering. Gross proceeds from the initial public offering were Won 165 billion. In furtherance of the Third Phase of the Public Institution Reform Plan, we plan to sell an additional 20.0% equity interest in KEPCO E&C by the end of 2012, subject to prevailing market conditions, and in furtherance of such plan, on November 29, 2011, we sold an additional 3.08% of our shares in KEPCO E&C to third party investors for gross proceeds of approximately Won 101 billion. Following such sale, we currently hold 74.9% equity interest in KEPCO E&C. We expect to maintain control of KEPCO E&C subsequent to the planned sale. As such, KEPCO E&C is expected to remain as our consolidated company.

### *LG Uplus Corp.*

We currently own a 7.46% equity interest in LG Uplus Corp., a telecommunications and Internet access service provider in Korea which is the surviving entity after the consolidation of LG Dacom, LG Telecom and LG Powercom in January 2010. Pursuant to the Fifth Phase of the Public Institution Reform Plan, we currently plan to sell our remaining equity interest in LG Uplus Corp. subject to prevailing economic and market conditions.

### *Korea Electric Power Industrial Development Co., Ltd.*

In February 2003, we privatized Korea Electric Power Industrial Development, or KEPID, formerly our wholly-owned subsidiary, by selling 51.0% of its equity interest to Korea Freedom Federation. Pursuant to the Fifth Phase of the Public Institution Reform Plan announced by the Government in January 2009, we sold 20% of the KEPID shares through additional listing and currently plan to sell the remaining 29.0% of KEPID's equity interest based on, among others, considerations of economic and market conditions.

## **Item 4C. Organizational Structure**

As of December 31, 2011, we had 66 subsidiaries, 30 associates and 22 joint ventures (not including any special purpose entities).

### **Subsidiaries**

Our wholly-owned six generation subsidiaries are KHNP, KOSEP, KOMIPO, KOWEPO, KOSPO and EWP. Our non-generation subsidiaries include KEPCO E&C, KEPCO KPS, KEPCO NF, and KEPCO KDN. For a full list of our subsidiaries, including foreign subsidiaries, and their respective jurisdiction of incorporation, please see Exhibit 8.1 attached to this report.

### **Associates and Joint Ventures**

An associate is an entity over which we have significant influence and that is neither a subsidiary nor an interest in a joint venture. Significant influence is the power to participate in the financial and operating policy decisions of the investee but is not control or joint control over those policies. A joint venture is a contractual arrangement whereby we and other parties undertake an economic activity that is subject to joint control (namely when the strategic financial and operating policy decisions relating to the activities of the joint venture require the unanimous consent of the parties sharing control). Joint venture arrangements that involve the establishment of a separate entity in which each party has an interest are referred to as jointly controlled entities. The accounts of the associates and joint ventures are not required to be consolidated in our financial statements. We record our equity interests in these associates and joint ventures as investments under the equity method of accounting. See

**Table of Contents**

Note 18 of the notes to our consolidated financial statements. The table below sets forth for each of our principal associates and joint ventures the name and our percentage shareholding and their principal activities as of December 31, 2011.

	Ownership (Percent)	Principal Activities
<b>Associates:</b>		
Daegu Green Power Co., Ltd.	41.0	Power generation
Korea Gas Corporation	24.5	Importing and wholesaling LNG
Korea Electric Power Industrial Development Co., Ltd.	29.0	Electricity metering
YTN Co. Ltd.	21.4	Broadcasting
Cheongna Energy Co., Ltd.	30.0	Generating and distributing vapor and hot/cold water
Gangwon Wind Power Co., Ltd. <sup>(1)</sup>	15.0	Wind power generating
Hyundai Green Power Co. Ltd.	29.0	Generating electricity
AMEC Partners Korea <sup>(2)</sup>	19.0	Resources development
Hyundai Energy Co., Ltd.	29.0	Power generation
Ecollite Co. Ltd.	33.5	Artificial light-weight aggregate
Taebaek Wind Power Co., Ltd.	25.0	Construction and service
Alternergy Philippine Investments Corporation	50.0	Power generation
Muju Wind Power Co., Ltd.	25.0	Power generation
Pyeongchang Wind Power Co., Ltd.	25.0	Power generation
Daeryun Power co., Ltd.	19.8	Power generation
JinanJangsu Wind Power Co., Ltd	25.0	Power generation
Changjuk Wind Power Co., Ltd.	30.0	Power generation
Commerce and Industry Energy Co., Ltd.	29.5	Power generation
Gyeongju Wind Power Co., Ltd.	30.0	Power generation
KNH Solar Co., Ltd.	27.0	Power generation
SPC Power Corporation	40.0	Power generation
Gemeng International Energy Group Co., Ltd.	34.0	Construction and operation of utility plant
PT.Cirebon Electric Power	27.5	Construction and operation of utility plant
KNOC Nigerian East Oil Co., Ltd. <sup>(3)</sup>	14.6	Oil and gas exploration in Nigeria
KNOC Nigerian West Oil Co., Ltd. <sup>(3)</sup>	14.6	Oil and gas exploration in Nigeria
Dolphin Property Limited <sup>(3)</sup>	15.0	Rental company
E-Power S.A	30.0	Operation of utility plant and sales of electricity
PT Wampu Electric Power	46.0	Power generation
PT. Bayan Resources TBK	20.0	Resources development
Korea Power Exchange <sup>(4)</sup>	100.0	Management of power market
<b>Joint ventures:</b>		
Canada Korea Uranium Limited Partnership <sup>(5)</sup> .	12.5	Resources development
KEPCO-Uhde Inc. <sup>(6)</sup>	66.0	Power generation
Eco Biomass Energy Sdn. Bhd.	40.0	Power generation
Datang Chaoyang Renewable Power Co., Ltd.	40.0	Power generation
Shuweiht Asia Power Investment B.V.	49.0	Holding company
Shuweiht Asia Operation & Maintenance Company <sup>(6)</sup>	55.0	Maintenance of utility plant
Waterbury Lake Uranium LP	40.0	Resources development
ASM-BG Investicii AD	50.0	Power generation
RES Technology AD	50.0	Power generation
KV Holdings, Inc.	40.0	Power generation
Kings Plaza JV, LLC <sup>(6)</sup>	75.0	Power generation
KEPCO SPC Power Corporation <sup>(6)</sup>	76.0	Construction and operation of utility plant
KEPCO Energy Resource Nigeria Limited	30.0	Holding company
Gansu Datang Yumen Wind Power Company Ltd.	40.0	Power generation
Datang Chifeng Renewable Power Co., Ltd.	40.0	Power generation
Datang KEPCO Chaoyang Renewable Power Co., Ltd.	40.0	Power generation
Rabigh Electricity Company	40.0	Construction of utility plant and sales of electricity
Rabigh Operation & Maintenance Company	40.0	Maintenance of utility plant

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Jamaica Public Service Company Limited	40.0	Power generation
KW Nuclear Components Co., Ltd.	43.4	R&D
Busan Shinho Solar power Co., Ltd.	20.0	Power generation
STX Electric Power Co., Ltd.	49.0	Power generation

---

**Table of Contents**

*Notes:*

- (1) Although we hold less than 20% of the equity shares of Gangwon Wind Power Co., Ltd., we may exercise significant influence over the company due to our ability to appoint directors to the board of directors and our indirect control over the management of its financial and operating policies.
- (2) Although we hold less than 20% of the equity shares of AMEC Partners Korea, we may exercise significant influence over the company due to our ability to appoint a director to the board of directors.
- (3) Although we hold less than 20% of the equity shares in this company, we may exercise significant influence over the company due to our ability to appoint one out of four members of the steering committee. In addition, we engage in significant financial transactions with the company which further results in our indirect influence on the company.
- (4) We hold 100% of the equity shares of Korea Power Exchange and we exercise some control over the company due to our ability to nominate directors to the board of directors. However, Korea Power Exchange is not classified as our subsidiary because the Korean Government has the ability to appoint directors to the board of directors.
- (5) Although we hold less than 20% of the equity shares of Canada Korea Uranium Limited Partnership, we possess joint control of the company due to our ability to appoint directors to the board of directors and our indirect control over the management of its financial and operating policies.
- (6) We hold over 50% of the equity shares of the company. However, pursuant to the terms of the joint venture agreement, all material decisions require the consent of each of the parties to the joint venture agreement, each of whom has equal voting rights in the board of directors. For these reasons, the company is classified as a joint venture.

**Item 4D. Property, Plant and Equipment**

Our property consists mainly of power generation, transmission and distribution equipment and facilities in Korea. See Item 4B. Business Overview Power Generation, Transmission and Distribution and Capital Investment Program. In addition, we own our corporate headquarters building complex at 167 Samseong-dong, Gangnam-gu, Seoul 135-791, Korea. On June 24, 2005, the Government announced its policy to relocate the headquarters of government-invested enterprises, including us and certain of our subsidiaries, out of the Seoul metropolitan area to other provinces in Korea. As of December 31, 2011, the net book value of our property was Won 112,385 billion. No significant amount of our properties is leased. There are no material encumbrances on our properties, including power generation, transmission and distribution equipment and facilities.

**ITEM 4A. UNRESOLVED STAFF COMMENTS**

We do not have any unresolved comments from the SEC staff regarding our periodic reports under the Securities Exchange Act of 1934, as amended (the Exchange Act ).

## **Table of Contents**

### **ITEM 5. OPERATING AND FINANCIAL REVIEW AND PROSPECTS**

*You should read the following discussion on our operating and financial review and prospects together with our consolidated financial statements and the related notes which appear elsewhere in this report. Our results of operations, financial condition and cash flows may materially change from time to time, for reasons including various policy initiatives (including changes to the Restructuring Plan) by the Government in relation to the Korean electric power industry, and accordingly our historical performance may not be indicative of our future performance. See Item 4B. Business Overview Restructuring of the Electric Power Industry in Korea and Item 3D. Risk Factors The Government may adopt policy measures to substantially restructure the Korean electric power industry or our operational structure, which may have a material adverse effect on our business, operations and profitability.*

#### **Item 5A. Operating Results**

##### **Overview**

As we are a predominant market participant in the Korean electric power industry, our business is heavily regulated by the Government, including with respect to the rates we charge to customers for the electricity we sell. In addition, our business requires a high level of capital expenditures for the construction of electricity generation, transmission and distribution facilities and is subject to a number of variable factors, including demand for electricity in Korea and fluctuations in fuel costs, which are in turn impacted by the movements in the exchange rates between the Won and other currencies.

Under the Electricity Business Law and the Price Stabilization Act, the Government generally establishes electricity rates at levels that are expected to permit us to recover our operating costs attributable to our basic electricity generation, transmission and distribution operations in addition to receiving a fair investment return on capital used in those operations. For a detailed description of the fair investment return, see Item 4B. Business Overview Sales and Customers Electricity Rates. We have recorded operating income for every fiscal year since our inception in 1981; however, since 2008, we have recorded operating losses and/or net losses due to substantial increases in fuel prices which have more than offset the effect from the increases in the electricity tariff rates we charge to our customers.

We estimate that fuel prices will continue to be volatile and accordingly have a material adverse effect on our results of operations and profitability in 2012 and beyond. In part to address these concerns, the Government from time to time increases the electricity tariff rates (most recently in August 2010 and August and December 2011). However, such increases may be insufficient to fully offset the adverse impact from the rise in the fuel costs, and since such increases typically require lengthy public deliberations in order to be implemented, the tariff increases often occur with a significant time lag and as a result our results of operations and cash flows may suffer.

Further to the announcement by the Ministry of Knowledge Economy in February 2010, a new electricity tariff system went into effect on July 1, 2011. This system is designed to overhaul the prior system for determining electricity tariff chargeable to customers by more closely aligning the tariff levels to the movements in fuel prices, with the aim of providing more timely pricing signals to the market regarding the expected changes in electricity tariff levels and encouraging more efficient use of electricity by customers. However, due to inflationary and other policy considerations, the Ministry of Knowledge Economy has for the time being suspended applying the fuel cost-based adjustment, and such adjustment amount (which has been a positive amount since the adoption of the new tariff system due to the continued rise in coal, LNG and oil prices) is currently being recorded as accounts receivable pending the commencement of the application of the fuel cost-based adjustment. See Electricity Rates.



**Table of Contents**

The results of our operations are largely affected by the following factors:

demand and supply of electricity;

electricity rates we charge to our customers;

fuel costs; and

the exchange rates of Won against other foreign currencies, in particular the U.S. dollar.

***Demand and Supply of Electricity***

Our sales are largely dependent on the level of demand for electricity in Korea and the rates we charge for the electricity we sell.

Demand for electricity in Korea grew at a compounded average rate of 5.5% per annum for the five years ended December 31, 2011. According to The Bank of Korea, the compounded growth rate for real gross domestic product, or GDP, was approximately 3.5% during the same period. The GDP increased, on a year-on-year basis, by 6.2% in 2010 and by 3.6% in 2011.

The table below sets forth, for the periods indicated, the annual rate of growth in Korea's gross domestic product, or GDP, and the annual rate of growth in electricity demand (measured by total annual electricity consumption).

	2007	2008	2009	2010	2011
Growth in GDP (at 2006 constant prices)	5.1%	2.3%	0.3%	6.2%	3.6%
Growth in electricity consumption	5.7%	4.5%	2.4%	10.1%	4.8%

Demand for electricity may be categorized either by the type of its usage or by the type of customers. The following describes the demand for electricity by the type of its usage, namely, industrial, commercial and residential:

The industrial sector currently represents the largest segment of electricity consumption in Korea. While demand from the industrial sector (including the agricultural sector) has increased steadily as a result of the economic expansion in Korea, it has gradually declined as a percentage of total demand from 57.3% in 2000 to 55.3% in 2011. Demand from the industrial sector increased by 8.1% to 251,491 gigawatt hours in 2011 from 2010, largely due to the continued export-led growth of the Korean economy backed by greater utilization of industrial plants.

Demand for electricity from the commercial sector has increased in recent years, both in absolute terms and as a percentage of total demand, as a result of the continuing growth of the service sector in the Korean economy, which has led to an increased number of office buildings, office automation and use of air conditioners. Growth in the commercial sector is also attributable to the construction industry and the expansion of the leisure and distribution industries. Demand from the commercial sector increased by 2.1% to 99,504 gigawatt hours in 2011 from 2010, largely as a result of the increased commercial activities in Korea, which was partially offset by weakened consumer sentiment in light of the enhanced uncertainties in the global economy.

Demand for electricity from the residential sector decreased by 0.9% to 82,130 gigawatt hours in 2011 from 2010. In 2011, we provided electricity to approximately 20 million households, which represent substantially all of the households in Korea. Demand from the residential sector is largely dependent on population growth and the increased use of air conditioners and other electrical appliances. Residential demand for electricity decreased in 2011, largely due to the relatively less warm summer in 2011 compared

## Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

to 2010 resulting in reduced use of air conditioning in 2011, which more than offset increased electricity demand from greater electric heater usage during the winter of 2011 due to the relatively colder winter compared to 2010.

For a discussion on demand by the type of customers, see Item 4B. Business Overview Sales and Customers Demand by the Type of Usage.

---

**Table of Contents**

As for the supply of electricity in Korea, we have since our inception had, and, subject to any substantial future developments in respect of the Restructuring Plan, expect to have, the predominant market share, in terms of generation of electricity as well as transmission and distribution thereof to the end-users. As for transmission and distribution of electricity, we accounted for approximately 99% of the market share, in terms of transmission and distribution capacity, in 2010 and 2011. While as of March 31, 2012, there were 12 other entities in Korea that are also licensed to supply electricity under the Community Energy System, these suppliers are, by the terms of their licenses, permitted to supply electricity to limited geographical areas, and their aggregate transmission and distribution capacity accounted for approximately 1% of our capacity. Furthermore, since the introduction of the Community Energy System in 2004, a total of 31 districts have obtained the license to supply electricity through the Community Energy System, but 16 of such districts have reportedly abandoned plans to adopt the Community Energy System, largely due to the relatively high level of capital expenditure required, the rise in fuel costs and the lower-than-expected electricity output per cost. See Item 4B. *Business Overview* *Transmission and Distribution*. As for the generation of electricity that we purchase for transmission and distribution to our end-users, our generation subsidiaries accounted for 91.5% and 88.9% in 2010 and 2011, respectively, with the remainder accounted for by independent power producers. We currently expect that our market dominance in the supply of electricity in Korea will continue for the foreseeable future, absent any substantial changes to the Restructuring Plan or other policy initiatives by the Government in relation to the Korean electric power industry, or an unexpected proliferation of districts opting for supply of electricity through the Community Energy System.

***Electricity Rates***

Under the Electricity Business Law and the Price Stabilization Act, electricity rates are established at levels that will permit us to recover our operating costs attributable to our basic electricity generation, transmission and distribution operations in addition to receiving a fair investment return on capital used in those operations. For further discussion of fair investment return, see Item 4B. *Business Overview* *Sales and Customers* *Electricity Rates*.

From time to time, our actual rate of return on invested capital may differ significantly from the rate of return on invested capital assumed for the purposes of electricity tariff approvals, for reasons, among others, related to movements in fuel prices, exchange rates and demand for electricity that differ from what is assumed for determining our fair rate of return. For example, between 1987 and 1990, the actual rate of return was above the fair rate of return due to declining fuel costs and rising demand for electricity at a rate not anticipated for purposes of determining our fair rate of return. Similarly, depreciation of the Won against the U.S. dollar accounted for our actual rates of return being lower than the fair rate of return for the period from 1996 to 2000, and for the period since 2006, our actual rates of return have been lower than the fair rate of return largely to a general increase in fuel costs and higher facility investment costs. Partly in response to the variance between our actual rates of return and the fair rate of return, the Government from time to time adjusts the electricity tariff rates, but there typically is a significant time lag for the tariff adjustment as such adjustment requires a series of deliberative processes and administrative procedures and the Government also has to consider other policy considerations, such as the inflationary effect of overall tariff increases and the efficiency of energy use from sector-specific tariff increases. Furthermore, there is no assurance that the tariff adjustments will have the desired effect at a level anticipated or at all, or that they will not have unintended adverse consequences.

Recent adjustments to the electricity tariff rates by the Government involve the following, which were made principally in response to the rising fuel prices which hurt our profitability as well as to encourage a more efficient use of electricity by the different sectors:

effective August 1, 2010, a 3.5% overall increase in our average tariff rate, consisting of increases in the residential, educational, industrial, street lighting and night power usage tariff rates by 2.0%, 5.9%, 5.8%, 5.9% and 8.0%, while making no changes to the commercial and agricultural tariff.

---

**Table of Contents**

effective August 1, 2011, a 4.9% overall increase in our average tariff rate, consisting of increases in the industrial, commercial, residential, educational, street lighting and night power usage tariff rates by 6.1%, 4.4%, 2.0%, 6.3%, 6.3% and 8.0%, while making no changes to the agricultural tariff.

effective December 5, 2011, a 4.5% overall increase in our average tariff rate, consisting of increases in the industrial, commercial, educational and street lighting tariff rates by 6.5%, 4.5%, 4.5% and 6.5%, while making no changes to the residential, agricultural and night power usage tariff.

Further to the announcement by the Ministry of Knowledge Economy in February 2010, a new electricity tariff system went into effect on July 1, 2011. This system is designed to overhaul the prior system for determining electricity tariff chargeable to customers by more closely aligning the tariff levels to the movements in fuel prices, with the aim of providing more timely pricing signals to the market regarding the expected changes in electricity tariff levels and encouraging more efficient use of electricity by customers. Previously, the electricity tariff consisted of two components: (i) base rate and (ii) usage rate based on the cost of electricity and the amount of electricity consumed by the end-users. Under the new tariff system, the electricity tariff will also have a third component of fuel cost-adjusted rate, which will be added to or subtracted from the sum of the base rate and the usage rate based on the movements of coal, LNG and oil prices. The fuel cost-related adjustment will be made on a monthly basis based on the three-month average fuel cost which is reflected as fuel-cost adjustment fees two months later. The new tariff system is intended to provide greater financial stability and ensure a minimum return on investment to electricity suppliers, such as us. However, due to inflationary and other policy considerations relating to protecting the consumers from sudden and substantial rises in electricity tariff, the Ministry of Knowledge Economy has for the time being suspended applying the fuel cost-based adjustment, and such adjustment amount (which has been a positive amount since the adoption of the new tariff system due to the continued rise in coal, LNG and oil prices) is currently being recorded as accounts receivable pending the commencement of the application of the fuel cost-based adjustment. There is no assurance as to when the Government will commence applying the fuel cost-based adjustment and reflect the adjustment amount in the electricity tariff payable to us, or whether the new tariff system will undergo further amendments to the effect that it will not fully cover our fuel and other costs on a timely basis or at all, or will not have unintended consequences that we are not presently aware of. Any such development may have a material adverse effect on our business, financial condition, results of operations and cash flows.

See Item 4B. Business Overview Sales and Customers Electricity Rates and Item 4B. Recent Developments Implementation of the Fuel Cost-based Tariff System.

***Fuel Costs***

Our results of operations are also significantly affected by the cost of producing electricity, which is subject to a variety of factors, including, in particular, the cost of fuel.

Cost of fuel in any given year is a function of the volume of fuels consumed and the unit fuel cost for the various types of fuel used for generation of electricity (i) by our generation subsidiaries or (ii) by independent power producers from whom we purchase electric power. A significant change in the unit fuel costs materially impacts the costs of electricity generated by our generation subsidiaries (which costs form part of our power generation, transmission and distribution expenses) as well as, to our knowledge, the costs of electricity generated by the independent power producers that sell their electricity to us (which costs form part of our purchased power expenses). We believe that unit fuel costs materially impact the total fuel costs for both generated power and purchased power, but we are unable to provide a comparative analysis since the unit fuel cost information for purchased power is proprietary information of the independent power producers, who use a significantly different composition of the types of fuels for power generation.

Fuel costs accounted for 45.1% and 48.2% of our sales and 49.3% and 48.7% of our cost of sales in 2010 and 2011, respectively. Substantially all of the fuel (except for anthracite coal) used by our generation subsidiaries is imported from outside of Korea at prices determined in part by prevailing market prices in

---

**Table of Contents**

currencies other than Won. In addition, our generation subsidiaries purchase a significant portion of their fuel requirements under contracts with limited quantity and duration. Pursuant to the terms of our long-term supply contracts, prices are adjusted from time to time subject to prevailing market conditions. See Item 4B. Business Overview Fuel.

Uranium accounted for 34.1% and 34.2% of our fuel requirements in 2010 and 2011, respectively. Coal accounted for 45.5% and 45.4% of our fuel requirements in 2010 and 2011, respectively. LNG accounted for 16.6% and 16.8% of our fuel requirements in 2010 and 2011, respectively. Oil accounted for 2.5% and 2.2% of our fuel requirements in 2010 and 2011, respectively. In each case, the fuel requirements are measured by the amount of electricity generated by us and do not include electricity purchased from third parties. In order to ensure stable supplies of fuel materials, our generation subsidiaries enter into long-term and medium-term contracts with various suppliers and supplement such supplies with fuel materials purchased on spot markets.

In the past few years, the price of bituminous coal fluctuated significantly. For example, the price of bituminous coal increased substantially in the first half of 2008, after which it gradually decreased. However, it has increased again significantly from the second half of 2009. See Item 4B. Business Overview Fuel. In 2011, approximately 75.9% of the bituminous coal requirements of our generation subsidiaries were purchased under long-term contracts and 24.1% purchased on the spot market. The average free on board Newcastle coal price index was US\$120.5 per ton in 2011 and decreased to US\$104.0 per ton as of April 17, 2012. If the bituminous coal price rises again our generation subsidiaries may not be able to secure their respective bituminous coal supplies at prices commercially acceptable to them. In addition, any significant interruption or delay in the supply of fuel, bituminous coal in particular, from any of their suppliers could cause our generation subsidiaries to purchase fuel on the spot market at prices higher than contracted, resulting in an increase in fuel cost. Furthermore, there have been recent increases in crude oil prices that may lead to an increase in the price of commodity oil that we use, thereby resulting in higher fuel cost.

Nuclear power has a stable and relatively low-cost structure and forms a significant portion of electricity supplied in Korea. Due to significantly lower fuel costs as compared with those of conventional power plants, our nuclear power plants generally operate at full capacity with only routine shutdowns for check-up and overhauls lasting 20 to 30 days. In case of shortage in electricity generation resulting from stoppages of the nuclear power plants, we seek to make up for such shortage with power generated by our coal-fired power plants.

Because the Government heavily regulates the rates we charge for the electricity we sell (see Item 4B. Business Overview Sales and Customers Electricity Rates ), our ability to pass on such cost increases to our customers is limited. For example, since 2008 we recorded operating loss and/or net loss largely due to sustained rises in fuel costs that were neither timely nor sufficiently offset by a corresponding rise in electricity tariff rates. If the fuel prices remain at the current level or continue to increase and the Government, out of concern for inflation or for other reasons, maintains the current level of electricity tariff or does not increase it to a level to sufficiently offset the impact of rising fuel prices, the price increases will significantly narrow our profit margins or even cause us to suffer net losses and our business, financial condition, results of operations and cash flows would seriously suffer.

***Movements of the Won against the U.S. Dollar and Other Foreign Currencies***

Korean Won has fluctuated significantly against major currencies in recent years. For fluctuations in exchange rates, see Item 3A. Selected Financial Data Currency Translations and Exchange Rates. In particular, Korean Won underwent substantial fluctuations during the recent global financial crisis, and has remained subject to significant volatility even in its aftermath. The Noon Buying Rate per one U.S. dollar increased from Won 1,130.6 on December 31, 2010 to Won 1,158.5 on December 31, 2011, and was Won 1,134.2 on April 13, 2012. While Won has recently been appreciating against U.S. dollar and other foreign currencies, there were times in the past when it underwent steady depreciation, which resulted in a significant increase in the cost of fuel materials and equipment purchased from overseas as well as the cost of servicing our

**Table of Contents**

foreign currency debt. As of December 31, 2011, approximately 23.2% of our long-term debt (including the current portion and discounts on debentures but excluding premium on debentures) before accounting for swap transactions was denominated in foreign currencies, principally in U.S. dollar, Yen and Euro. The prices for substantially all of the fuel materials and a significant portion of the equipment we purchase are stated in currencies other than Won, generally in U.S. dollars. Since substantially all of our revenues are denominated in Won, we must generally obtain foreign currencies through foreign-currency denominated financings or from foreign currency exchange markets to make such purchases or service such debt, fulfill our obligations under existing overseas investments and make new overseas investments. As a result, any significant depreciation of Won against U.S. dollar or other foreign currencies will have a material adverse effect on our profitability and results of operations. See Item 3D. Risk Factors Risks Relating to KEPCO The movement of Won against the U.S. dollar and other currencies may have a material adverse effect on us.

**Recent Accounting Changes**

The selected consolidated financial data set forth below as of and for the years ended December 31, 2010 and 2011 have been derived from our audited consolidated financial statements as of and for the years ended December 31, 2010 and 2011, which have been prepared in accordance with IFRS.

Historically, we prepared our financial statements in accordance with Korean GAAP. As of January 1, 2011 (the date of transition), we have adopted IFRS as issued by IASB, and prepared our first consolidated financial statements in accordance with IFRS 1 First-time of adoption of IFRS.

Starting on January 1, 2011, we have prepared our consolidated financial information in accordance with IFRS. A description of the principal differences between our previous accounting standards and IFRS and the impacts of transition to IFRS is as follows (also see paragraph 4 below):

(1) IFRS 1 *First-time of adoption of IFRS* Optional exemptions

IFRS 1 provides for a number of optional exemptions from the general principle of full retrospective applications. Our optional exemptions for first-time adoption of IFRS are as follows:

(a) Business combination

We have elected not to apply IFRS 3, *Business Combinations* retrospectively to past business combinations that occurred before January 1 2010, the date of transition to IFRS.

(b) Fair value or revaluation as deemed cost

Land, property, plant and equipment have been revalued at the date of transition to IFRS and that revaluation is used as the asset's deemed cost.

Effect of revaluation in certain land, property, plant and equipment as of January 1, 2010 are as follows

(KRW in millions):

Korean GAAP	Revaluation increase	IFRS
(Won) 74,033,431	(Won) 21,839,510	(Won) 95,872,941

(c) Cumulative translation differences

Cumulative translation differences for all foreign operations were deemed to be zero at the date of transition to IFRS.



**Table of Contents**

(d) Leases

We have elected to apply the transitional provisions in International Financial Reporting Interpretations Committee ( IFRIC ) 4, *Determining Whether an Arrangement Contains a Lease* ( IFRIC 4 ), thereby determining whether we have any arrangements that exist at the date of transition to IFRS that contain a lease on the basis of facts and circumstances existing at January 1, 2010. No such arrangements were identified.

(e) Investments in subsidiaries, associates, and joint ventures

For certain investments in foreign subsidiaries, associates, or joint ventures, who have previously adopted IFRS, we recognized the carrying values on the respective entity's books, as of date of transition, as deemed cost.

(f) Decommissioning liabilities included in the cost of property, plant and equipment

In accordance with IFRIC 1 *Changes in Existing Decommissioning, Restoration and Similar Liabilities*, specified changes in a decommissioning, restoration or similar liability are added to or deducted from the cost of the asset to which it relates, and the adjusted depreciable amount of the asset is then depreciated prospectively over its useful life.

(2) Exceptions to retrospective application of other accounting standards.

(a) Derecognition of financial assets

We applied derecognition criteria listed in IAS 39 *Financial Instruments: Recognition and derecognition* for transfer of financial assets for transfers after the transition date. For any derecognized financial assets in accordance with past accounting standards before the date of transition, we did not retrospectively recognize such assets in accordance with IFRS, even if it does not satisfy the derecognition criteria under IFRS.

(b) Exception for estimates

Unless there is objective evidence that estimates were in error, we applied estimates which are estimated before the date of transition to be consistent with estimates made for the same date under Korean GAAP, after adjustments to reflect any difference in accounting policies.

(3) Explanation of transition to IFRS

**Korean GAAP**

**IFRS**

**Scope of consolidation (\*1)**

The definition of control is similar to those in IFRS. However, some of the scope of consolidation is restricted by the Act on External Audit of Stock Companies as below.

Control is the power to govern the financial and operating policies of an entity so as to obtain benefits from its activities. All entities controlled by us are consolidated regardless of quantitative significance. As a result, at transition date to IFRS, our change in scope of consolidation as compared with those of Korean GAAP.



## Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

An entity that another entity owns more than 30% of shares as the largest shareholder is included in consolidation.

A subsidiary with less than 10 billion Won in its total assets as of the previous fiscal year end is excluded from consolidation.

An unincorporated entity such as a partnership is excluded from consolidation

**Table of Contents**

**Korean GAAP**

**IFRS**

**Property, plant and equipment**

Under Korean GAAP, we use the cost model in the measurement after initial recognition.

We revalued our property and equipment as at January 1, 2010 and used their fair values as deemed cost in the opening IFRS statement of financial position.

The depreciation method is required to be applied consistently at each period and cannot be changed unless there are justified reasons. For a newly acquired asset, the same depreciation methods applied to the existing, similar assets are applied consistently.

For the measurement after initial recognition, IAS 16, Property, Plant and Equipment allows for an entity to choose either the cost model or the revaluation model by the class of property and equipment and we have chosen the cost model.

The residual value, the useful life and the depreciation method of property and equipment are required to be reviewed at least at each financial year-end and, if expectations differ from previous estimates, the changes should be accounted for as a change in an accounting estimate in accordance with IAS 8, Accounting Policies, Changes in Accounting Estimates and Errors.

We changed our depreciation method of equipment from a declining balance method to a straight-line method in connection with the adoption of IFRS.

**Revenue recognition**

Under Korean GAAP, we read meters and bill customers on a cycle basis. We did not accrue revenue for power sold to customers between the meter-reading date and end of the reporting period but recorded the revenue in the subsequent period. Such practice was consistent with the Accounting Regulations for Public Enterprise Associated Government Agency, which has been approved by the Korean Ministry of Strategy and Finance (formerly the Korean Ministry of Finance and Economy) and considered by the utility industry in Korea as Korean GAAP.

Under IFRS, we estimate and recognize unbilled revenue related to the sale of power between the meter-reading dates and the end of the reporting period.

**Retirement benefit obligation & long-term employee benefits obligation**

Allowances for retirement benefits accrued equal to the amounts to be paid at the end of reporting period, assuming that the all entitled employees with a service year more than a year would retire at once. Retirement benefit expenses incur at the point when the payment obligation is fixed. We recognized allowances for long-term employee

The retirement benefit amount is appropriated as a defined benefit obligation by actuarial assessment using the projected unit credit method. Also, we recognize our long-term employee benefits obligation by actuarial assessment using the projected unit credit method.

benefit at the point when the payment obligation is fixed.

**Table of Contents**

**Korean GAAP**

**IFRS**

**Income tax**

Under Korean GAAP, deferred tax assets and liabilities were classified as either current or non-current based on the classification of their underlying assets and liabilities assuming that all differences from one entity are recovered or settled together. If there are no corresponding assets or liabilities, deferred tax assets and liabilities were classified based on the periods the temporary differences were expected to reverse.

Under Korean GAAP the temporary differences associated with investments in subsidiaries, branches and associates and interest in joint ventures were recognized as deferred tax assets and liabilities.

Under IFRS, deferred tax assets and liabilities are all classified as non-current on the statement of financial position.

Under IFRS, the temporary differences associated with investments in subsidiaries, branches and associates and interest in joint ventures is recognized as deferred assets and liabilities reflecting the manner in which Company expects to recover or settle the carrying amount of its assets and liabilities.

**Financial assets measurement and impairment**

Our available-for-sale securities, loans & receivables and other financial assets are measured at fair value. Under Korean GAAP, expected loss was estimated and set as allowance for doubtful accounts based on our evaluation of loans and receivables collectability.

Under IFRS, we review whether or not impairment exists for individually significant loans and receivables. For other loans and receivables, we group loans and receivables which have similar credit risks, performs collective impairment test, and estimates the incurred loss as allowance for doubtful loans and receivables.

**Construction contracts**

Under Korean GAAP, there was no concept of recognizing the gross amount due from or due to customers as an asset or liability.

Under IFRS, the due from or due to customers amount which is the net amount of cost incurred plus recognized profits, less the sum of the recognized losses and progress billing. If the costs incurred plus recognized profit (or losses) exceeds progress billings a due from customer amount is recognized as an asset, and if the progress billing exceeds the cost incurred plus recognized profit (or losses) a due to customer amount is recognized as a liability.

**Other reclassifications**

i. Memberships and guarantee deposits Under Korean GAAP memberships and guarantee deposits were classified as other non-current assets.

Under IFRS facility-use memberships are recognized as intangible assets with an indefinite useful life and guarantee deposits that satisfy the definition of financial assets are classified as loans and receivables at amortized costs.

ii. Investment property and intangible assets Under Korean GAAP, properties acquired for earn rental income and/or for capital appreciation (including property under construction for such purposes) were classified as property, plant and equipment.

Under IFRS, such properties are reclassified separately as investment properties and for property under construction with intangible asset type items are classified separately within

intangible assets.

**Table of Contents**

(\*1) As of January 1, 2010, the date of transition to IFRS, our change in scope of consolidation is as follows:

<b>Type</b>	<b>Description</b>	<b>Company</b>
Newly Added	Under the former Act on External Audit of Stock companies Article 1.3 Section 2.1 in the Republic of Korea, companies those whose total assets are less than 10 billion Korean won were not subject to consideration, However, under IFRS all entities are subject to consolidation.	KEPCO Canada Uranium Investment Limited Partnership
		KEPCO Middle East Holding Company
		Qatrana Electric Power Company
		Sylardus Holdings B.V.
		Akkuyu Finance B.V.
		Akkuyu Fuel B.V.
		Akkuyu Operation B.V.
		Korea Electric Power Nigeria Ltd.
		KOWEPO International Corporation
		KOSPO Jordan LLC
	EWP Cebu Corporation	
	KOREA Waterbury Uranium Limited Partnership	
	Akkuyu Electricity Production Company	
Excluded	Under the former Act on External Audit of Stock companies Article 1.3 Section 2.1 in the Republic of Korea, entities where we own more than 30% of shares and is the largest shareholder with the largest voting rights were included in the scope. Under IFRS no such exceptions exist.	KEPCO SPC Power Corporation. (formerly KEPCO Salcon Power Corporation)

(4) Explanation of effects of transition to IFRS

(a) Effects in equity at January 1, 2010, date of transition, are as follows (KRW in millions):

<b>Item</b>	<b>Note</b>	<b>Asset</b>	<b>Liability</b>	<b>Equity</b>
Korean GAAP		93,208,031	51,804,224	41,403,807
Reconciliation of transition effects				
Consolidation	(*1)	656,730	102,943	553,787
Property, plant and equipment	(*2)	26,567,833	9,382,612	17,185,221
Leases	(*3)	1,248,604	1,564,536	(315,932)
Revenue recognition	(*4)	1,285,709	326,598	959,111

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Employee benefits	(*5)	80,676	683,829	(603,153)
Income taxes	(*6)	(500,193)	1,685,847	(2,186,040)
Other	(*7)	70,643	(219,894)	290,537
IFRS		122,618,033	65,330,695	57,287,338

**Table of Contents**

- (b) Effects in equity at December 31, 2010, the end date of the last fiscal period the last financial statements were prepared under Korean GAAP, are as follows (KRW in millions):

Item	Note	Asset	Liability	Equity
Korean GAAP		99,610,398	58,121,798	41,488,600
Reconciliation of transition effects				
Consolidation	(*1)	501,166	(301,393)	802,559
Property, plant and equipment	(*2)	28,672,884	11,771,386	16,901,498
Leases	(*3)	1,120,143	1,420,717	(300,574)
Revenue recognition	(*4)	1,350,042	344,135	1,005,907
Employee benefits	(*5)	78,867	876,723	(797,856)
Income taxes	(*6)	(1,771,638)	294,934	(2,066,572)
Other	(*7)	(44,068)	(287,043)	242,975
IFRS		129,517,794	72,241,257	57,276,537

- (c) Effects in net income and comprehensive income for the year ended December 31, 2010, the end date of the last fiscal period the last financial statements were prepared under Korean GAAP, are as follows (KRW in millions):

Item	Note	Net income (Loss)	Comprehensive income (Loss)
Korean GAAP		(19,855)	(56,124)
Reconciliation of transition effects			
Consolidation	(*1)	107,454	184,513
Property, plant and equipment	(*2)	(68,265)	(99,293)
Leases	(*3)	15,359	15,359
Revenue recognition	(*4)	41,835	41,835
Employee benefits	(*5)	(79,237)	(165,186)
Income taxes	(*6)	(20,551)	19,152
Other	(*7)	(45,907)	(51,990)
IFRS		(69,167)	(111,734)

*Notes:*

- (\*1) Effects of change in scope of consolidation and the effects of the adoption of IFRS by our associates.
- (\*2) Effects of revaluation of land, property, plant and equipment, net, and investment property, which was used as deemed cost.
- (\*3) Application of lease accounting of arrangement, power purchase agreement ( PPA ) which contains a lease portion under IFRIC 4 *Determining whether an arrangement contains a lease*.
- (\*4) Under Korean GAAP, we read meters and billed customers on a cycle basis. We did not accrue revenue for power sold to customers between the meter-reading date and end of the reporting period but recorded the revenue in the subsequent period. Such practice was consistent with the Accounting Regulations for Public Enterprise Associated Government Agency, which has been approved by the Korean Ministry of Strategy and Finance (formerly the Korean Ministry of Finance and Economy) and considered by the utility industry in Korea as Korean GAAP. However, under IFRS, we estimate and recognize unbilled revenue related to the sale of power between the meter-reading dates and the end of the reporting period.
- (\*5) Effects of retirement benefit obligation & long-term employee benefits obligation.
- (\*6) Effects of adjustments which are made for additional deferred income tax incurred from temporary differences of income tax of the subsidiaries in accordance with the IFRS, and reclassification of current deferred income tax to non-current, offsetting of deferred income



tax asset and liability.

**Table of Contents**

(\*7) Other effects mainly consist of reclassification of membership which has unlimited period of validity to intangible assets with indefinite useful lives, and derecognition of certain provisions which do not match the recognition criteria of IFRS.

(d) Effects of IFRS transition adjustments in the consolidated statement of cash flows for the year ended December 31, 2010. Under IFRS, dividends received, interest received, interest paid and income taxes paid which were presented in aggregate under Korean GAAP, are now presented separately in the statement of cash flows. Except for the aforementioned items, there are no significant differences between the consolidated statement of cash flow prepared in accordance with Korean GAAP and IFRS.

(e) Components classified as operating income (loss) under IFRS but classified as non-operating income (loss) under Korean GAAP in the past for period for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	2011	2010
	(Won)	(Won)
Reversal of other provisions	110	14,754
Reversal of allowance for doubtful accounts	460	6,951
Gains on assets contributed	4,392	1,390
Gains from liabilities exempted	4,578	5,679
Compensation and reparations revenue	30,350	12,501
Electricity infrastructure development fund	48,154	41,189
Revenue from research contracts	6,124	542
Rental income	180,563	168,386
Others (other income)	43,114	28,018
Compensation and reparations expense	(2,000)	
Transfer to other provisions	(238)	(22,004)
Depreciation expenses on investment properties	(927)	(1,129)
Depreciation expenses on assets not in use	(6,619)	(6,723)
Other bad debt expense	(867)	(471)
Donations	(100,352)	(30,874)
Others (other expenses)	(36,592)	(8,586)
Gains on disposition of property, plant, and equipment	38,776	42,037
Gains on disposition of intangible assets		
Reversal of intangible assets loss on impairment		16
Gains on foreign currency translation (related to operating activities)	1,659	4,634
Gains on foreign currency transaction (Related to operating activities)	100,811	90,452
Insurance proceeds		34
Others (Other income)	213,624	219,110
Loss on disposition of property, plant, and equipment	(31,228)	(46,882)
Loss on disposition of intangible assets	(5)	(12)
Property, Plant, and Equipment loss on impairment		(26,648)
Intangible assets loss on impairment	(221)	(450)
Loss on foreign currency translation (Related to operating activities)	(5,402)	(3,603)
Loss on foreign currency transaction (Related to operating activities)	(98,806)	(97,210)
Others (Other loss)	(Won) (53,505)	(Won) (63,271)

Fuel costs increased to Won 20,971 billion in 2011 from Won 17,823 billion in 2010 and accounted for 48.7% and 49.3% of our consolidated cost of sales in 2011 and 2010, respectively.

## **Table of Contents**

### **Critical Accounting Policies**

The following discussion and analysis is based on our consolidated financial statements. The fundamental objective of financial reporting is to provide useful information that allows a reader to comprehend our business activities. To aid in that understanding, our management has identified critical accounting policies.

We make a number of estimates and judgments in preparing our consolidated financial statements. These estimates may differ from actual results and have a significant impact on our recorded assets, liabilities, revenues and expenses and related disclosure of contingent assets and liabilities. We consider an estimate to be a critical accounting estimate if it requires a high level of subjectivity or judgment, and a significant change in the estimate would have a material impact on our financial condition or results of operations. Further discussion of these critical accounting estimates and policies is included in the notes to our consolidated financial statements.

The accounting policies set out below have been applied consistently by us and our subsidiaries to all periods presented in these consolidated annual financial statements and in preparing the opening IFRS statement of financial position as of January 1, 2010 for the purposes of the transition from previous GAAP (Korean GAAP) to IFRS, unless otherwise indicated.

#### ***Electricity Sales***

The Government approves the rates we charge to customers for our power transmission and distribution divisions. Our utility rates are designed to recover our reasonable costs plus a fair investment return. Our power generation subsidiaries' rates are determined in the market.

Under IFRS, we recognize electricity sales revenue based on power sold (transferred to the customer) up to the reporting date. As no specific regulatory accounting guidance exists under IFRS, we do not apply any regulatory accounting related to our regulated divisions. To determine the amount of power sold, we estimate reasonable daily power volumes for residential, commercial, industrial and other uses. The differences between the current month's estimated amount and actual (meter-read) amount, is adjusted for (trued-up) during the next month period.

#### ***Fuel Cost-based Tariff System***

As of July 1, 2011, the Government approved a fuel cost-based tariff system, allowing us to adjust the tariff we charge to our customers based on the changes in fuel costs with a view to ultimately passing through increases in fuel costs to our customers. The adjustment amount is determined by a formula based on the prior three months moving average of global fuel cost changes and other factors.

Currently, the Government has issued a temporary suspension on our collection of the fuel cost adjustment amounts from the customers as a means to control inflation in Korea and for other policy considerations. As a result, as of December 31, 2011, we recognized receivables in the amount of Won 357 billion for the related fuel cost adjustment amounts.

#### ***Derivative Instruments***

We record rights and obligations arising from derivative instruments as assets and liabilities, which are stated at fair value. The gains and losses that result from the change in the fair value of derivative instruments are reported in current earnings. However, for derivative instruments designated as hedging the exposure of variable cash flows, the effective portions of the gains or losses on the hedging instruments are recorded as accumulated other comprehensive income (loss) and credited or charged to operations at the time the hedged transactions affect earnings, and the ineffective portions of the gains or losses are credited or charged immediately to operations.

**Table of Contents**

Significant management judgment is involved in determining the fair value of estimated derivative instruments. The estimates and assumptions used by our management to determine fair value can be impacted by many factors, such as the estimated discount factor derived from observable market data, credit risk of the counterparty and the estimated cash flow based on settlement period, interest convention, and other contract information of the derivative instruments.

As of December 31, 2010 and 2011, we recorded net derivative assets (liabilities), in the amounts of Won 248 billion and Won 244 billion, respectively, under IFRS. Changes in the estimated discount factor or cash flow, or changes in the assumptions and judgments by management underlying these estimates, may cause material revisions to the estimated total gain or loss effect of derivative instruments, which could have a material effect on the recorded asset or liability.

***Decommissioning Costs***

We record the fair value of estimated decommissioning costs as a liability in the period in which we incur a legal obligation associated with retirement of long-lived assets that result from acquisition, construction, development and/or normal use of the assets. We also record a corresponding asset that is depreciated over the life of the asset. Accretion expense consists of period-to-period changes in the liability for decommissioning costs resulting from the passage of time and revisions to either the timing or the amount of the original estimate of undiscounted cash flows. Depreciation and accretion expenses are included in cost of electric power in the accompanying consolidated statements of comprehensive income.

Significant management judgment is involved in determining the fair value of estimated decommissioning costs. The estimates and assumptions used by our management to determine fair value can be impacted by many factors, such as the estimated decommissioning costs based on engineering studies commissioned and approved by the Korean government, and changes in assumed dates of decommissioning, inflation rate, discount rate, decommissioning technology, regulation and the general economy.

As of December 31, 2010 and 2011, we recorded liability for decommissioning costs in the amounts of Won 5,976 billion and Won 6,727 billion, respectively. Changes in the estimated costs or timing of decommissioning, or changes in the assumptions and judgments by management underlying these estimates, may cause material revisions to the estimated total cost to decommission these facilities, which could have a material effect on the recorded liability. We used a discount rate of 4.36% and an inflation rate of 2.30% when calculating the decommissioning cost liability recorded as of December 31, 2010 and 2011. In addition, the following is a sensitivity analysis of the potential impact on decommissioning costs from a 0.10% increase or decrease in each of the inflation rate and the discount rate, assuming that all other aforementioned assumptions remain constant:

	Sensitivity to inflation rate		Sensitivity to discount rate	
	+0.10%	-0.10%	+0.10%	-0.10%
	(in billions of Won)			
Increase (decrease) of provision for decommissioning costs	(Won) 180.3	(Won) (174.5)	(Won) (132.5)	(Won) 136.1

See Notes 27 and 44 of the notes to our consolidated financial statements for further related information.

***Provision for Decontamination of Transformer***

Under the Persistent Organic Pollutants Management Act which was enacted in 2007, we are required to remove the toxin polychlorinated biphenyls (PCBs) from our transformers insulating oil by 2015. We are also required to inspect the PCB levels in our transformers and dispose of any PCBs in excess of established safety standards.

As of December 31, 2010 and 2011, we recorded a liability of Won 278 billion and Won 215 billion, respectively, for inspection and disposal costs related to the decontamination of existing transformers.

**Table of Contents**

The estimates and assumptions used by our management to determine fair value can be affected by many factors, such as the estimated costs of inspection and disposal, inflation rate, discount rate, regulations and the general economy.

Changes in the estimated costs or changes in the assumptions and judgments underlying these estimates may cause material revisions to the estimated total costs, which could have a material effect on our recorded liability. When calculating the provision for the decontamination of our transformers, we used a discount rate of 6.49% and an inflation rate of 2.81% as of December 31, 2010, and a discount rate of 5.84% and an inflation rate of 3.34% as of December 31, 2011. In addition, the following is a sensitivity analysis of the potential impact on decontamination costs based on a 0.10% increase or decrease in each of the inflation rate and the discount rate, assuming that all other aforementioned assumptions remain constant:

	Sensitivity to inflation rate		Sensitivity to discount rate	
	+0.10%	-0.10%	+0.10%	-0.10%
	(in billions of Won)			
Increase (decrease) of provision for decontamination of transformer	(Won) 1.3	(Won) (1.3)	(Won) (1.3)	(Won) 1.3
<b>Deferred Tax Assets</b>				

In assessing the realizability of the deferred tax assets, our management considers whether it is probable that a portion or all of the deferred tax assets will not be realized. The ultimate realization of our deferred tax assets is dependent on whether we are able to generate future taxable income in specific tax jurisdictions during the periods in which temporary differences become deductible. Our management has scheduled the expected future reversals of the temporary differences and projected future taxable income in making this assessment. Based on these factors, our management believes that it is probable that we will realize the benefits of these temporary differences as of December 31, 2011. However, the amount of deferred tax assets may be different if we do not realize estimated future taxable income during the carry forward periods as originally expected.

We recognize deferred tax assets and liabilities based on the differences between the financial statement carrying amounts and the tax bases of assets and liabilities at each separate taxpaying entity. Under IFRS, a deferred tax asset is recognized for temporary difference that will result in deductible amounts in future years and for carry forwards. If, based on the weight of available evidence, it is more likely than not that some or all of the portion of the deferred tax asset will not be realized, that portion is deducted directly from the deferred tax asset.

We believe that the accounting estimate related to the realizability of deferred tax asset is a critical accounting estimate because: (i) it requires management to make assessments about the timing of future events, including the probability of expected future taxable income and available tax planning opportunities, and (ii) the difference between these assessments and the actual performance could have a material impact on the realization of tax benefits as reported in our results of operations. Management's assumptions require significant judgment because actual performance has fluctuated in the past and may continue to do so.

**Useful Lives of Property, Plant and Equipment**

In accordance with IFRS, property, plant and equipment are stated at cost. We do not depreciate land. Depreciation is computed by the straight-line method (and unit-of-production method for loaded nuclear fuel (PWR) and capitalized asset retirement cost of loaded nuclear fuel), using rates based on the estimated useful lives. Net property, plant and equipment as of December 31, 2011 totaled Won 112,385 billion representing more than 82% of total assets. Given the significance of property, plant and equipment and the associated depreciation expense to our financial statements, the determination of an asset's economic useful life is considered to be a critical accounting estimate.

**Table of Contents**

Economic useful life is the duration of time the asset is expected to be productively employed by us, which may be less than its physical life. Management's assumptions on the following factors, among others, affect the determination of estimated economic useful life: wear and tear, obsolescence, technical standards, changes in market demand and technological changes. We apply the following useful lives for our property, plant and equipment:

	<b>Estimated useful life</b>
Buildings	8 ~ 40
Structures	8 ~ 50
Machinery	6 ~ 32
Vehicles	4
Loaded heavy water	30
Asset retirement costs	18, 30, 40
Finance lease assets	20
Ships	9
Others	4 ~ 9

Generally, useful life is estimated at the time the asset is acquired and is based on historical experience with similar assets and takes into account anticipated technological or other changes. If technological changes were to occur more rapidly than anticipated or in a different form than anticipated or the assets experienced unexpected levels of wear and tear, the useful lives assigned to these assets may need to be shortened, resulting in the recognition of increased depreciation expenses in future periods.

***Impairment of Long-lived Assets***

Under IFRS, at the end of each reporting period, we review the carrying amounts of tangible and intangible assets to determine whether there is any indication that those assets have suffered an impairment loss. If any such indication exists, the recoverable amount of the asset is estimated in order to determine the extent of the impairment loss (if any). Where it is not possible to estimate the recoverable amount of an individual asset, we estimate the recoverable amount of the cash-generating unit to which the asset belongs. Where a reasonable and consistent basis of allocation can be identified, corporate assets are also allocated to individual cash-generating units, or otherwise they are allocated to the smallest group of cash-generating units for which a reasonable and consistent allocation basis can be identified.

Intangible assets with indefinite useful lives and intangible assets not yet available for use are tested for impairment at least annually, and whenever there is an indication that the asset may be impaired. Recoverable amount is the higher of fair value less costs to sell and value in use. In assessing value in use, the estimated future cash flows are discounted to their present value using a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset for which the estimates of future cash flows have not been adjusted.

If the recoverable amount of an asset (or a cash-generating unit) is estimated to be less than its carrying amount, the carrying amount of the asset (or the cash-generating unit) is reduced to its recoverable amount. An impairment loss is recognized immediately in income or loss, unless the relevant asset is carried at a revalued amount, in which case the impairment loss is treated as a revaluation decrease.

Where an impairment loss subsequently reverses, the carrying amount of the asset (or a cash-generating unit) is increased to the revised estimate of its recoverable amount, but so that the increased carrying amount does not exceed the carrying amount that would have been determined had no impairment loss been recognized for the asset (or the cash-generating unit) in prior years. A reversal of an impairment loss is recognized immediately in income or loss, unless the relevant asset is carried at a revalued amount, in which case the reversal of the impairment loss is treated as a revaluation increase.

## **Table of Contents**

The assessment of impairment is a critical accounting estimate, because significant management judgment is required to determine: (i) if an indicator of impairment has occurred, (ii) how assets should be grouped, and (iii) if an impairment exists, the recoverable amount of the asset or asset group. If management's assumptions about these assets change as a result of events or circumstances, and management believes the assets may have declined in value, we may record impairment charges, resulting in lower profits. Our management uses its best estimate in making these evaluations and considers various factors, including the future prices of energy, fuel costs and other operating costs. However, actual market prices and operating costs could vary from those used in the impairment evaluations, and the impact of such variations could be material.

### ***Accrual for Loss Contingencies for Legal Claims***

We are involved in legal proceedings regarding matters arising in the ordinary course of business. Related to these matters, as of December 31, 2011, we were engaged in 429 lawsuits as a defendant and 103 lawsuits as a plaintiff. The total amount claimed against us was Won 138.5 billion and the total amount claimed by us was Won 21.4 billion as of December 31, 2011. As of December 31, 2011, we had an accrual for loss contingencies of Won 44.4 billion. We record liabilities for estimated loss contingencies when we assess that a loss is probable and the amount of the loss can be reasonably estimated. The determination for a loss contingency is based on management judgment and estimates with respect to the likely outcome of the matter, including the analysis of different scenarios. Liabilities are recorded or adjusted when events or circumstances cause these judgments or estimates to change. In assessing whether a loss is a reasonable possibility, we may consider the following factors: the nature of the litigation, claim or assessment, available information, opinions or views of legal counsel and other advisors, and the experience gained from similar cases. We provide disclosures for material contingencies when there is a reasonable possibility that a loss or an additional loss may be incurred.

As new developments occur or more information becomes available, our assumptions and estimates of these liabilities may change. Revisions to contingent liabilities are generally reflected in income when new or different facts or information become known or circumstances change that affect previous assumptions with respect to the likelihood or amount of loss. If changes in these or other assumptions or the anticipated outcomes we use to estimate contingencies cause a loss to become more likely, it could materially affect future results of operations for any particular quarterly or annual period.

Actual amounts realized upon settlement of contingencies may be different than amounts recorded and disclosed and could have a significant impact on the liabilities and expenses recorded on the consolidated financial statements.

### **Consolidated Results of Operations**

#### ***2011 Compared to 2010***

In 2011, our consolidated sales, which is principally derived from the sale of electric power, increased by 10.2% to Won 43,532 billion from Won 39,507 billion in 2010, reflecting primarily a 4.8% increase in the volume of electricity sold from 434,160 gigawatt hours in 2010 to 455,070 gigawatt hours in 2011 and a 4.9% increase in our overall average electricity tariff rates effective August 1, 2011 and a 4.5% increase in our overall average electricity tariff rates effective December 5, 2011. The overall increase in the volume of electricity sold was primarily attributable to a 8.1% increase in the volume of electricity sold to the industrial sector, which represents the largest segment of electricity consumption in Korea, from 232,672 gigawatt hours in 2010 to 251,491 gigawatt hours in 2011, and, to a lesser extent, a 2.1% increase in the volume of electricity sold to the commercial sector from 97,410 gigawatt hours in 2010 to 99,504 gigawatt hours in 2011, which more than offset a 0.9% decrease in the volume of electricity sold to the residential sector, including overnight power usage, from 82,890 gigawatt hours in 2010 to 82,130 gigawatt hours in 2011. The increase in the volume of electricity sold to the industrial sector was primarily due to the general increase in demand for electricity in these sectors in Korea largely as a result of the continued export-led growth of the Korean economy, which involved an increased

**Table of Contents**

industrial output and greater capacity utilization in industrial plants. The increase in the volume of electricity sold to the commercial sector was primarily due to increased commercial activities in Korea, which was partially offset by weakened consumer sentiment in light of the enhanced uncertainties in the global economy. The decrease in the volume of electricity sold to the residential sector was primarily due to the unanticipated low temperatures during the summer of 2011. For a discussion of the increase in our electricity tariff rates, see Item 4B. Business Overview Sales and Customers Electricity Rates.

Our consolidated cost of sales, which is principally derived from the costs related to the purchase of fuels for generation of electricity and to a lesser extent, from the purchase of power from independent power producers and depreciation, increased by 19.1% to Won 43,082 billion in 2011 from Won 36,187 billion in 2010, primarily due to a 17.7% increase in fuel costs, a 46.1% increase in purchased power and a 145.7% increase in other cost of sales (excluding purchased power). Fuel costs increased to Won 20,971 billion in 2011 from Won 17,823 billion in 2010. The fuel costs accounted for 48.7% and 49.3% of our consolidated cost of sales in 2011 and 2010, respectively. Such increase in fuel costs was primarily due to a 17.8% increase in fuel cost for LNG, which was partially offset by a 1.4% decrease in fuel cost for oil. Fuel cost for LNG, which accounted for 43.3% of the total fuel cost in 2011, increased mainly due to a 14.1% increase in unit cost of LNG and a 3.2% increase in LNG consumption mainly due to increased demand for electricity as a result of economic recovery and unanticipated weather conditions, including relatively colder winter in 2011 compared to 2010 resulting in greater use of heaters in 2011 at peak hours. Fuel cost for coal, which accounted for 45.4% of the total fuel cost in 2011, increased by 21.1%, mainly due to a 17.1% increase in unit cost for bituminous coal. For further information on the increase in fuel costs, see Item 4B. Business Overview Fuel. Purchased power, which accounted for 17.4% and 14.2% of our cost of sales in 2011 and 2010, respectively, increased by 46.1% to Won 7,500 billion in 2011 from Won 5,133 billion in 2010, primarily due to a 37.1% increase in the volume of power purchased from independent power producers (who generate electricity primarily through LNG-fired power plants), from 38,682 gigawatt hours in 2010 to 53,024 gigawatt hours in 2011, primarily to compensate for the shortfall in the supply of electricity due to the higher than anticipated rise in demand for electricity in 2011. Depreciation expense increased by 3.0% to Won 6,733 billion in 2011 from Won 6,540 billion in 2010 primarily due to the increase of additional property, plant and equipment related to the construction of new generation facilities pursuant to our capital investment program. Maintenance costs increased by 6.0% to Won 1,416 billion in 2011 from Won 1,335 billion in 2010 primarily due to an increase in new construction projects and maintenance on KHNP's Wolsong-1 unit. Other cost of sales (excluding purchased power) increased significantly to Won 1,784 billion in 2011 from Won 726 billion in 2010 primarily due to an increase in costs related to the disposal of nuclear waste.

As a cumulative result of the foregoing factors, our consolidated gross profit decreased by 86.4% to Won 450 billion in 2011 from Won 3,319 billion in 2010, and our gross profit margin decreased to 1.0% in 2011 from 8.4% in 2010.

Our consolidated selling and administrative expenses increased by 6.5% to Won 1,752 billion in 2011 from Won 1,645 billion in 2010, primarily as a result of increases in amortization of intangibles related to the increase in purchase of software, research and development expenses related to electronic data processing, maintenance costs, employee benefits, fees and commissions related to electricity meter outsourcing costs and other expenses related to marketing and promotion.

Our consolidated other operating income, net, decreased by 3.4% to Won 451 billion in 2011 from Won 467 billion in 2010, mainly as a result of the increase in contributions related to renewable energy initiatives.

Our consolidated net other income increased by 39.5% to Won 166 billion from Won 119 billion in 2010, primarily as a result of the increase in gains on foreign currency transactions due to increased volatility in foreign exchange rates in 2011.



## **Table of Contents**

As a cumulative result of the foregoing factors, we recorded consolidated operating loss of Won 685 billion in 2011 compared to consolidated operating income of Won 2,260 billion in 2010. We recorded operating loss margin of 1.6% in 2011 compared to operating profit margin of 5.7% in 2010, largely due to a 17.7% increase in fuel costs and a 46.1% increase in purchased power which more than offset the 10.0% increase in our revenue from the sale of electricity.

Our consolidated net financial expense decreased by 2.8% to Won 1,911 billion in 2011 from Won 1,967 billion in 2010, primarily as a result of the increase in gains on valuation of derivatives related to the overall appreciation of Won against the U.S. dollar.

Our consolidated profits of affiliates or joint ventures using equity method increased by 60.6% to Won 123 billion in 2011 from Won 77 billion in 2010, primarily as a result of an increase in profits from our overseas subsidiaries and affiliates due to the expansion of our overseas business.

As a cumulative result of the foregoing factors, we recorded consolidated loss before income taxes of Won 2,473 billion in 2011 compared to consolidated income before income taxes of Won 370 billion in 2010. Our consolidated income tax expenses increased by 86.8% to Won 820 billion in 2011 from Won 439 billion in 2010, primarily due to tax loss carry forward assessment which resulted in a decrease in deferred tax asset and an increase in consolidated income tax expense.

As a cumulative result of the above factors, our consolidated loss for the year increased substantially to Won 3,293 billion in 2011 from Won 69 billion in 2010, and our consolidated net loss margin substantially increased to 7.6% in 2011 from 0.2% in 2010. We also recorded net loss attributable to owners of the Company of Won 3,370 billion in 2011, compared to net loss attributable to owners of the Company of Won 120 billion in 2010.

Our consolidated other comprehensive loss substantially increased to Won 262 billion in 2011 from Won 43 billion in 2010, primarily as a result of the effect of recording a negative net change in fair value of available-for-sale financial assets, net of tax in 2011, which was largely due to unfavorable market conditions of the Korean stock market. Such change more than offset a positive change in share in other comprehensive income (loss) of associates and joint ventures, net of tax in 2011, which was largely due to exchange rate fluctuations that impacted the translations of other comprehensive income (loss) of our overseas associates and joint ventures.

As a cumulative result of the above factors, our consolidated total comprehensive loss for the period increased substantially to Won 3,555 billion in 2011 from Won 112 billion in 2010.

## **Inflation**

The effects of inflation in Korea on our financial condition and results of operations are reflected primarily in construction costs as well as in labor expenses. Inflation in Korea has not had a significant impact on our results of operations in recent years. It is possible that inflation in the future may have an adverse effect on our financial condition or results of operations.

## **Segment Results**

We operate the following business segments: transmission and distribution, nuclear power generation and non-nuclear power generation, and all other. The transmission and distribution segment, which is operated by KEPCO, the parent company, consists of operations related to the transmission, distribution and sale to end-users of electricity purchased from our generation subsidiaries as well as from independent power producers. The power generation segment, which is operated by KEPCO's one nuclear generation subsidiary and five non-nuclear generation subsidiaries, consists of operations related to the generation of electricity sold to KEPCO through the Korea Power Exchange. The transmission and distribution segment and the power generation

## **Table of Contents**

segment together represent our electricity business. The remainder of our operation is categorized as all other. The all other segment consists primarily of operations related to the engineering and maintenance of generation plants, information services, sales of nuclear fuel, communication line leasing, overseas businesses and others. In 2010 and 2011, the revenue from external customers of the power generation segment (representing the six generation subsidiaries) and all our other revenues in the aggregate amounted to only 2.2% and 2.4% of our consolidated revenues, respectively, and the results of operations for our business segments substantially mirror our consolidated results of operations.

### **Item 5B. Liquidity and Capital Resources**

*We expect that our capital requirements, capital resources and liquidity position may change in the course of implementing the Restructuring Plan. See Item 4B. Business Overview Restructuring of the Electric Power Industry in Korea and Item 3D. Risk Factors Risks Relating to KEPCO The Government may adopt policy measures to substantially restructure the Korean electric power industry or our operational structure, which may have a material adverse effect on our business, operations and profitability.*

#### **Capital Requirements**

We anticipate that the following represent the major sources of our capital requirements in the short-term to intermediate future:

capital expenditures pursuant to our capital investment program;

working capital requirements, the largest component of which is fuel purchases;

payment of principal and interest on our existing debt;

headquarters relocation expenses pursuant to Government policy; and

overseas investments.

In addition, if there were to occur unanticipated material changes to the Restructuring Plan, the Basic Plan or other major policy initiatives of the Government relating to the electric power industry, or natural disasters, such developments may require a significant amount of additional capital requirements.

#### **Capital Expenditures**

We anticipate that capital expenditures will be the most significant use of our funds for the next several years. Our capital expenditures relate primarily to the construction of new generation units, maintenance of existing generation units and a significant expansion of our transmission and distribution systems. Our capital expenditures generally follow budgets established under the fifth Basic Plan, which contains projections relating to the supply and demand of electricity of Korea based on which we plan the construction of additional generation units and transmission systems. See Item 4B. Business Overview Capital Investment Program for a further description of our capital investment program.

Our total capital expenditures were Won 10.2 trillion and Won 10.6 trillion in 2010 and 2011, respectively, and under our current budgets, are estimated to be approximately Won 14.9 trillion, Won 20.8 trillion and Won 19.0 trillion in 2012, 2013 and 2014, respectively. We plan to finance our capital expenditures primarily through borrowings from financial institutions, issuance of securities in the capital markets and construction grants.

**Table of Contents**

In addition, in order to deal with the long-term shortage of fuel and other resources and also to comply with various environmental standards, in April 2010 the Government announced a plan to adopt the Renewable Portfolio Standard ( RPS ) policy, under which each of our generation subsidiaries will be required to supply 2.0% and 10.0% of the total electricity generated from it in the form of renewable energy by 2012 and 2022, respectively, with fines being levied on any unit failing to do so in the prescribed timeline. We currently estimate that, if the Renewable Portfolio Standard is implemented as currently planned, our generation subsidiaries will incur approximately Won 45 trillion in additional capital expenditure over the next 10 years. We expect that such additional capital expenditure will be covered by a corresponding increase in electricity tariff. However, there is no assurance that the Government will in fact raise the electricity tariff at a level sufficient to fully cover such additional capital expenditures or at all. See Item 4B. Business Overview Renewable Energy for a further description of the Renewable Portfolio Standard and our related past capital expenditures.

**Fuel Purchases**

We require significant funds to finance our operations, principally in relation to the purchase of fuels by our generation subsidiaries for generation of electricity. In 2010 and 2011, fuel costs accounted for 45.1% and 48.2% of our sales and 49.3% and 48.7% of our cost of sales, respectively. We plan to fund our fuel purchases primarily with net operating cash, although in cases of rapid increases in fuel prices as was the case in recent years, we may also rely on borrowings and issuance of debt securities in the capital markets.

**Repayment of Existing Debt**

Payments of principal and interest on indebtedness will require considerable resources. The table below sets forth the scheduled maturities of our outstanding debt as of December 31, 2011 for each year from 2012 to 2016 and thereafter.

Year ended	Local currency borrowings	Foreign currency borrowings	Domestic Debentures	Foreign debentures	Exchangeable bonds	Total
December 31 <sup>(1)</sup>			(in millions of Won)			
2012	1,425,989	677,087	4,180,010	726,193		7,009,279
2013	1,230,129	1,128,331	3,980,000	1,613,593		7,952,053
2014	544,088		4,250,000	2,248,935		7,043,023
2015	25,159		4,270,000	1,672,285		5,967,444
2016	40,172		4,080,000	749,645		4,869,817
Thereafter	1,633,550	49,557	9,560,000	2,218,854		13,461,961
Total	4,899,087	1,854,975	30,320,010	9,229,505		46,303,577

**Note:**

(1) As of December 31, 2011, we had borrowings under conditional agreements of Won 21.4 billion, of which Won 11.3 billion was denominated in Won and Won 10.1 billion in foreign currencies, with maturity dates between 2021 and 2026. Such loans are not included in the above table. Under the terms of the conditional loans, we are not obligated to repay the principal and interest on such loans if the underlying projects fail.

We have incurred interest charges (including capitalized interest) of Won 2,482 billion and Won 2,697 billion in 2010 and 2011, respectively. We anticipate that interest charges will increase in future years because of, among other factors, anticipated increases in our long-term debt. See Capital Resources below. The weighted average rate of interest on our debt was 5.16% and 4.91% in 2010 and 2011, respectively.

We plan to repay the principal and interest on our existing debt primarily through borrowings from financial institutions, issuance of securities in the capital markets and net operating cash.



---

**Table of Contents*****Relocation Expenses***

In June 2005, the Government announced its policy to relocate the headquarters of government-invested enterprises, including us and certain of our subsidiaries including six generation subsidiaries, out of the Seoul metropolitan area to other provinces in Korea. Pursuant to this policy, our headquarters are scheduled to be relocated to Naju in Jeolla Province, which is approximately 300 kilometers south of Seoul. Although the relocation was initially scheduled to occur by the end of 2012, due to construction delays, we currently expect that the relocation will occur by the end of 2014. In addition, the headquarters of certain of our subsidiaries are scheduled to be relocated to various other cities in Korea. Under the current relocation plan as approved by the Government in 2007 and in accordance with the relevant statute and related guidelines, the total relocation cost for us and our generation subsidiaries is estimated to be Won 1,079 billion, which will be paid out over the construction period. Under a special act enacted for this purpose, we are required to sell the property in our current headquarters within one year after the relocation.

We plan to finance our relocation costs primarily through borrowings from financial institutions and issuance of securities in the capital markets, as well as net operating cash.

***Overseas Investments***

As part of our revenue diversification and fuel procurement strategy, we plan to continue to make overseas investments on a selective basis, which will be funded primarily through foreign currency-denominated borrowings and debt securities issuances as well as net operating cash from such projects.

***Capital Resources***

We have traditionally met our working capital and other capital requirements primarily from net cash provided by operating activities, issuance of debt securities, borrowings from financial institutions and construction grants. Net cash provided by operating activities was Won 6,740 billion and Won 4,145 billion in 2010 and 2011, respectively. Total long-term debt as of December 31, 2011 (including the current portion and discounts on debentures and excluding premium on debentures) was Won 45,031 billion, of which Won 34,644 billion was denominated in Won and an equivalent of Won 10,387 billion was denominated in foreign currencies, primarily U.S. dollars. Construction grants received were Won 1,595 billion and Won 1,374 billion in 2010 and 2011, respectively. In addition, in anticipation of potential liquidity shortage, we maintain several credit facilities with domestic financial institutions amounting to Won 3,583 billion and US\$1.1 billion, the full amount of which was available as of December 31, 2011. In addition, we and KHNP also maintain Won-denominated and U.S. dollar-denominated global medium-term note programs in the aggregate amount of US\$8 billion, of which approximately US\$4.6 billion remains currently available for future drawdown.

As of December 31, 2010 and 2011, our long-term debt, excluding the current portion thereof, as a percentage of shareholders' equity was 57.3% and 72.9%, respectively. As of December 31, 2010 and 2011, the current portion of our long-term debt was Won 6,311 billion and Won 5,832 billion, respectively. As of December 31, 2010 and 2011, our short-term borrowings amounted to Won 458 billion and Won 1,174 billion, respectively. See Note 24 of the notes to our consolidated financial statements.

Subject to the implementation of our capital expenditure plan and the sale of our interests in our generation subsidiaries and other subsidiaries, our long-term debt may increase or decrease in future years. Until recently, a substantial portion of our long-term debt was raised through foreign currency borrowings. However, in order to reduce the impact of foreign exchange rate fluctuations on our results of operations, we have reduced the proportion of our debt which is denominated in foreign currencies and plan to adjust the proportion of foreign currency debt in order to optimize our foreign currency exposure in light of, among others, the fluctuations in the value of Won, the cost of funding by each currency and the maturity of fund available in each market. Our foreign currency-denominated long-term debt increased from Won 9,992 billion as of December 31, 2010 to Won 10,387 billion as of December 31, 2011 before accounting for swap transactions.

## **Table of Contents**

Our ability to incur long-term debt in the future is subject to a variety of factors, many of which are beyond our control, including, the implementation of the Restructuring Plan and the amount of capital that other Korean entities may seek to raise in capital markets. Economic, political and other conditions in Korea may also affect investor demand for our securities and those of other Korean entities. In addition, our ability to incur debt will also be affected by the Government's policies relating to foreign currency borrowings, the liquidity of the Korean capital markets and our operating results and financial condition. In case of adverse developments in Korea, however, the price at which such financing may be available may not be acceptable to us.

We incur our short-term borrowings primarily through commercial papers sold to domestic financial institutions. The proceeds from our short-term borrowings are used primarily for fuel purchase and other working capital purposes. Our short-term borrowings increased significantly from (Won)458 billion as of December 31, 2010 to Won 1,174 billion as of December 31, 2011, primarily as a result of the issuance of commercial papers to domestic financial institutions and domestic bank borrowings, in part, for the purpose of funding the purchase of fuels, the cost of which continued to significantly increase in 2011. In large part due to the ample liquidity in the domestic financial markets and the strong credit ratings of us and our generation subsidiaries, we have not had, and we currently do not expect to have, any material difficulties in obtaining short-term borrowings in the foreseeable future. However, there is no assurance that we will not face any such difficulties due to unforeseen circumstances.

We may raise capital from time to time through the issuance of equity securities. However, there are certain restrictions on our ability to issue equity, including limitations on shareholdings by foreigners. In addition, without changes in the existing KEPCO Act which requires that the Government, directly or pursuant to the Korea Finance Corporation Act, through Korea Finance Corporation, own at least 51% of our capital stock, it may be difficult or impossible for us to undertake any equity financing other than sales of treasury stock without the participation of the Government. In case of adverse economic developments in Korea, however, the share price at which such financing may be available may not be acceptable to us. See Item 3D. Risk Factors Risks Relating to Korea and the Global Economy.

Our total shareholders' equity decreased from Won 57,277 billion as of December 31, 2010 to Won 53,804 billion as of December 31, 2011.

## **Liquidity**

Our liquidity is substantially affected by our construction expenditures and fuel purchases. Construction in progress increased slightly from Won 19,253 billion as of December 31, 2010 to Won 19,912 billion as of December 31, 2011. Fuel costs increased to Won 20,971 billion in 2011 from Won 17,823 billion in 2010. The fuel costs accounted for 48.7% and 49.3% of our consolidated cost of sales in 2011 and 2010, respectively.

Due to the capital-intensive nature of our business as well as significant volatility in fuel prices, from time to time we operate with a working capital deficit, and we may have substantial working capital deficit in the future. In order to meet capital requirements related to working capital deficit, we intend to continue to rely primarily upon net cash provided by operating activities, sales of debt securities, borrowings from financial institutions and construction grants. See Capital Resources. As of December 31, 2010 and 2011, we had a working capital deficit of Won 916 billion and Won 3,615 billion, respectively. We have traditionally met our working capital and other capital requirements primarily from net cash provided by operating activities, issuance of debt securities, borrowings from financial institutions and construction grants. We also incur our short-term borrowings primarily through commercial papers sold to domestic financial institutions. We have not had, and we do not expect to have, any material difficulties in obtaining short-term borrowings. See Capital Resources.

---

## **Table of Contents**

We may face liquidity concerns in the case of significant depreciation of Korean Won against major foreign currencies over a short period of time. While substantially all of our revenues are denominated in Won, we pay for substantially all of our fuel purchases in foreign currencies and a substantial portion of our long-term debt is denominated in foreign currencies, and payment of principal and interest thereon is made in foreign currencies. In the past, we have incurred foreign currency debt principally due to the limited availability and the high cost of Won-denominated financing in Korea. However, in light of the increasing sophistication of the Korean capital markets and the recent increase in liquidity in the Korean financial markets, we plan to reduce the portion of our debt which is denominated in foreign currencies although we intend to continue to raise certain amounts of capital through long-term foreign currency debt for purposes of maintaining diversity in our funding sources as well as paying for overseas investments in foreign currencies. As of December 31, 2011, approximately 23.2% of our long-term debt (including the current portion and discounts on debentures but excluding premium on debentures) before accounting for swap transactions, was denominated in currencies other than Won.

We enter into currency swaps and other hedging arrangements with respect to our debt denominated in foreign currencies only to a limited extent due primarily to the limited size of the Korean market for such derivative arrangements. Such instruments include combined currency and interest rate swap agreements, interest rate swaps and foreign exchange agreements. We do not enter into derivative financial instruments in order to hedge market risk resulting from fluctuations in fuel costs. Our policy is to hold or issue derivative financial instruments for hedging purposes only. Our derivative financial instruments are entered into with major financial institutions, thereby minimizing the risk of credit loss. See Note 12 of the notes to our consolidated financial statements.

We did not pay any dividends in 2010 and 2011, and we currently have no plans to pay dividends in 2012 as we recorded net losses in 2011.

### **Other**

Our operations are materially affected by the policies and actions of the Government. See Item 4B. Business Overview Regulation.

### **Item 5C. Research and Development, Patents and Licenses, etc.**

#### **Research and Development**

We maintain a research and development program focused on developing highly advanced electric power technology necessary to become a global leader in the electric power industry. In order to achieve this goal, we have adopted the Green Technology Development Strategy and Roadmap as part of the 2020 Mid- and Long-Term Strategic Management Plan which we announced in 2009. This strategic roadmap consists of low carbon power generating technology, high efficiency power transmission and distribution technology and the demand-creating green technology. We are planning to invest Won 3,572 billion to develop green technologies such as integrated gasification combined cycle, carbon capture and storage, smart grid, super conductor, electricity-powered vehicles and all-electric powered houses.

As part of our strategy for future growth, we have placed a high priority on the development of the following green energy projects:

a high-efficiency absorbent for carbon capture;

the establishment of a joint venture company to adopt a technology of integrated gasified process;

an infrastructure for electricity-powered vehicles;

a high-tech smart grid test bed in Jeju Island;

a conversion system for a 80kV high voltage direct current; and

all-electric powered houses.



## **Table of Contents**

In the field of hydroelectric and thermal power, our research and development efforts are primarily focused on developing technologies required for the efficient operation of thermal power plants, such as the Development of Advanced Thermal Power Plant project using the Ultra-Super Critical Technology. We also emphasize enhancing plant maintenance, which has proven to be of great importance in maintaining a competitive edge in this field, through accurate damage analysis, environmentally-friendly inspections and various other protective and optimization measures.

In the field of nuclear power, our research and development efforts are primarily focused on developing technology for enhancing the safety and economy of nuclear plants, such as our Basic Design for Advanced Power Reactor project. Our research and development objective for this field is to obtain technologies necessary to perform reactor/plant safety analysis, radiation control and radioactive waste reduction, and seismic monitoring and analysis.

In the field of electric power systems, we have focused our research and development efforts on developing required technology and providing technical support for the stable and reliable operation of electric power systems, such as the Static Synchronous Compensator (STATCOM). We have also developed the technology for an efficient distribution system, and preventive maintenance for substations, system automation, power utilization and power line communication.

In addition, we have been cooperating closely with many foreign electric utilities and research institutes on a diverse range of projects.

We invested approximately Won 766 billion in 2011 and currently plan to invest Won 948 billion in 2012 on research and development. We had approximately 895 employees engaged in research and development activities as of December 31, 2011. As a result of our research, approximately 2,382 intellectual property applications were submitted in Korea and abroad, out of which 1,313 intellectual property applications have been registered to date. In addition, we are currently constructing management infrastructure to facilitate development of high value-added intellectual properties. We also seek to market the technologies we have developed by identifying key items that have market potential in light of intellectual property, overseas market conditions and cost-efficiency issues. We are continuously upgrading our research and development programs, restructuring our research and development organization and reallocating and reassigning research personnel.

### **Item 5D. Trend Information**

Trends, uncertainties and events which could have a material impact on our sales, liquidity and capital resources are discussed above in Item 5A. Operating Results and Item 5B. Liquidity and Capital Resources.

### **Item 5E. Off-Balance Sheet Arrangements**

We have no significant off-balance sheet arrangements as of December 31, 2011 except for purchase obligations, payment guarantees and overdraft as described in Item 5F.

**Table of Contents****Item 5F. Tabular Disclosure of Contractual Obligations**

The following summarizes certain of our contractual obligations as of December 31, 2011 and the effect such obligations are expected to have on liquidity and cash flow in future periods.

Contractual Obligations <sup>(1)</sup>	Total	Payments Due by Period			
		Less than 1 year	1 3 years (in billions of Won)	4 5 years	After 5 years
Long-term debt <sup>(2)</sup>	(Won) 45,130	(Won) 5,836	(Won) 14,995	(Won) 10,837	(Won) 13,462
Interest payments on long-term debt <sup>(3)(4)</sup>	10,839	2,132	3,249	1,862	3,596
Short-term borrowings	1,174	1,174			
Plant construction <sup>(4)(5)</sup>	45,790	7,611	23,390	14,789	
<b>Total</b>	<b>(Won) 102,933</b>	<b>(Won) 16,753</b>	<b>(Won) 41,634</b>	<b>(Won) 27,488</b>	<b>(Won) 17,058</b>

*Notes:*

- (1) We entered into finance lease agreements with Korea Development Leasing Corporation and others for certain computer systems. We believe the remaining annual payments under capital and operating lease agreements as of December 31, 2011 were immaterial.
- (2) Includes the current portion and excludes amortization of note discount and issue costs.
- (3) A portion of our long-term debt carried a variable rate of interest. We used the interest rate in effect as of December 31, 2011 for the variable rate of interest in calculating the interest payments on long-term debt for the periods indicated.
- (4) These figures represent those of us and our six wholly-owned generation subsidiaries, which represent more than 90% of the corresponding amounts on a consolidated basis.
- (5) Based on budgeted amounts, as of December 31, 2011, of capital expenditure for the construction of generation facilities of our generation subsidiaries through 2015. The budgeted amounts may differ from the actual amounts of expenditure.

For a description of our commercial commitments and contingent liabilities, see Note 49 of the notes to our consolidated financial statements.

We entered into a power purchasing agreement with GS EPS Co., Ltd. and other independent power producers, under which we are required to annually purchase a minimum amount of power from these companies. Power we purchased from these companies amounted to Won 2,195 billion and Won 2,529 billion for the years ended December 31, 2010 and 2011, respectively.

We have entered into contracts with domestic and foreign suppliers (including Korea Gas Corporation, a related party) to purchase bituminous coal, anthracite coal and LNG. These contracts generally have terms of three months to one year and provide for periodic price adjustments to then-market prices. Under most of the coal purchase contracts, we are required to purchase an annual quantity of coal. We have also entered into long-term transportation contracts with Hanjin Shipping Co., Ltd. and others.

We import all uranium ore concentrates from sources outside Korea (including the United States, United Kingdom, Kazakhstan, France, Russia, South Africa, Canada and Australia) through medium- to long-term contracts and pay for such concentrates with currencies other than Won, primarily U.S. dollars. Contract prices for processing of uranium are generally based on market prices. See Note 48 of the notes to our consolidated financial statements for further details of these contracts.

Under the Long-term Transmission and Substation Plan approved by the Ministry of Knowledge Economy, which took effect on March 13, 2009, we are liable for the construction of all of our power transmission facilities and the maintenance and repair expenses for such facilities.

In July 2005, nine government-invested utilities companies, including us, entered into a Renewable Portfolio Agreement with the Government in order to expand the generation and distribution of renewable energy. This agreement contemplates two phases of capacity build-up for the generation and distribution of renewable energy.



**Table of Contents**

Under Phase II, which lasted from 2009 to 2011, we and our generation subsidiaries made capital expenditures of Won 1,227 billion in the aggregate to construct renewable energy generation capacity of 534 megawatts.

Payment guarantee and short-term credit facilities from financial institutions as of December 31, 2011 were as follows:

**Payment guarantee**

Description	Financial Institutions	Credit Lines (In millions of Won or thousands of USD, GBP, NPR, SAR, AED, BTN, INR, THB, BDT, and EUR)	
Payment of import letter of credits	Suhyup Bank and others	KRW	99,213
	Korea Exchange Bank and others	USD	1,616,063
	Korea Exchange Bank	GBP	61,169
Inclusive credits	Korea Exchange Bank	KRW	387,500
	HSBC and others	USD	547,012
Performance guarantees of business on overseas oilfield or Electricity	Bank of Kathmandu	NPR	155,448
	SABB	SAR	100,000
	Export-import Bank of Korea and others	USD	223,708
	Hana Bank	KRW	65,000
Performance guarantees on guarantees	Korea Exchange Bank	AED	54,880
	Bhutan National Bank	BTN	11,857
	HSBC and others	INR	244,333
	Seoul Guarantee Insurance and others	KRW	16,592
	Standard Chartered Bank and others	USD	653,230
Guarantees for bid	HSBC and others	INR	82,700
	Standard Chartered Bank	THB	72,000
	Shinhan Bank and others	USD	81,016
Warranty bond	Korea Exchange Bank	BDT	10,206
	Bhutan National Bank	BTN	11,857
	Shinhan Bank	EUR	5,438
	HSBC	INR	139,690
	Nonghyup Bank	USD	20,212
Other guarantees	Shinhan Bank	USD	750
<b>Overdraft and Others</b>			

Description	Financial Institutions	Credit Lines (In millions of Won or thousands of USD)	
Overdraft	Kookmin Bank and others	Won	1,534,000
Commercial paper	Shinhan Bank and others	Won	2,049,000
Limit amount available for card	Industrial Bank of Korea and others	Won	71,570
Loan limit	Korea Exchange Bank and others	Won	506,830
	HSBC and others	USD	1,233,000
Repayment guarantees for foreign currency debentures	Korea Development Bank	USD	583,993
We have entered into contracts with several companies in the aggregate amount of Won 28,224 billion as of December 31, 2011 for construction of power plant facilities and facility maintenance.			

We have provided a debt guarantee of US\$58 million to Sumitomo Mitsui Banking Corporation and other financial institutions in relation to the UAE Shuweihat S3 project.

## Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

We provide Won 5.2 billion performance guarantee related to construction completion to Kookmin Bank. As such performance guarantee does not meet the definition of financial guarantee contract in IAS 39, no related liability is recognized.

**Table of Contents**

We have joint and several obligations for liabilities in our pumped storage power business with five of our power generation subsidiaries and KHNP, which occurred prior to January 1, 2011 when our pumped storage power business segment was reorganized from five of our power generation subsidiaries (KOSEP, KOMIPO, KOWEPO, KOSPO, and EWP) and merged into KHNP.

As of December 31, 2011, our affiliate, Hyundai Energy Co., Ltd., which is engaged in the integrated energy business, carried long-term borrowings for project financing amounting to Won 450 billion from Korea Development Bank ( KDB ) and others. In connection with such borrowings, we pledged our investment securities in Hyundai Energy Co., Ltd., amounting to Won 30,878 million, to secure long-term borrowings amounting to Won 390 billion on behalf of our investee. In addition, we placed guarantees for the business performance of Hyundai Energy Co., Ltd., and had a payment guarantee in relation to the repayment of the principal and interest in arrears of unsubordinated borrowings amounting to Won 60 billion. In relation to the above project financing, NH Power II Co., Ltd. and Daewoo Securities Co., Ltd. entered into an agreement with Yecheon TPL Co., Ltd. to acquire shares in Hyundai Energy Co., Ltd. held by Yecheon TPL Co., Ltd. We placed guarantees for a fixed return on investment to the financial institutions and obtained the rights to acquire preferential investment securities in return.

As of December 31, 2011, our related parties, RES Technology AD ( RES ) and ASM-BG Investicii AD, ( ASM ), which are engaged in the photovoltaic power generation business in Bulgaria, had long-term borrowings for project financing amounting to EUR 59,243 thousand and EUR 59,469 thousand from KDB and others, respectively. In connection with these borrowings, we pledged our investment securities in RES and ASM to secure the long-term borrowings.

We have provided the following guarantees for our subsidiaries and affiliates as of December 31, 2011:

Type	Guaranteed company	Amounts (thousands)
Subsidiary	KEPCO Ilijan Co. <sup>(1)</sup>	USD 72,000
Subsidiary	KEPCO Shanxi International Ltd. <sup>(2)</sup>	USD 116,474 RMB800,000
Subsidiary	KEPCO Lebanon SARL. <sup>(3)</sup>	USD 17,113
Subsidiary	Qatrana Electric Power Company <sup>(4)</sup>	USD 17,600
Subsidiary	KST Electric Power Company <sup>(5)</sup>	USD 83,587
Subsidiary	KEPCO Middle East Holding Company <sup>(4)</sup>	USD 67,000
Affiliate	KNOC Nigerian East Oil Co., Ltd. <sup>(6)</sup>	
	KNOC Nigerian West Oil Co., Ltd. <sup>(6)</sup>	USD 34,650
Affiliate	Shuwei hat Asia Power Investment B.V. <sup>(7)</sup>	USD 17,944
Affiliate	Shuwei hat Asia O&M Co. <sup>(7)</sup>	USD 11,000
Affiliate	KEPCO SPC Power Co. <sup>(8)</sup>	USD 220,590
Affiliate	Rabigh Electricity Company <sup>(9)</sup>	SAR100,000

*Notes:*

- (1) KEPCO Ilijan Corporation, which is a subsidiary of KEPCO International Philippines Inc., is engaged in the power generation business in the Philippines and borrowed US\$242 million in 2000 as project financing from Japan Bank of International Cooperation and others. In connection with the borrowing, KEPCO Ilijan Corporation's investment securities held by KEPCO International Philippines Inc. were pledged as collateral. We have provided the National Power Corporation and others with the guarantee not to exceed US\$72 million on performance of the power generation business of KEPCO Ilijan Corporation.
- (2) KEPCO Shanxi International Ltd. (the wholly-owned subsidiary) formed the consortium with Deutsche Bank and Shanxi International Electric Power Ltd. to invest in the Chinese electric power generation business. The consortium established Gemeng International Energy Group Co., Ltd. (34.0% of ownership) to support this business. We have provided HSBC and Export-Import Bank of Korea (the EXIM Bank ) with the payment guarantee for KEPCO Shanxi International Ltd.'s loan of US\$116.5 million. We agreed with Deutsche Bank to refund the investment of RMB800 million and pay the additional interest of Libor + 2% for the period from initial investment date to the unqualified date in accordance with terms of the agreement, if Gemeng International Energy Group Co., Ltd. fails to be listed on the Hong Kong stock exchange within six years from the establishment date.



**Table of Contents**

- (3) We have provided performance guarantees related to the operation of the Lebanon power generation plant amounting to US\$17.1 million to the Lebanon Electricity Agency.
- (4) We invested in a power plant construction project in Al Qatrana, Jordan through KEPCO Middle East Holding Company SPC (our wholly-owned subsidiary), and established the Qatrana Electric Power Company (80% of ownership) to operate this project. Qatrana Electric Power Company provided the Jordanian Electric Power Company with a performance guarantee for this project. We provided a payment guarantee of US\$17.6 million to Qatrana Electric Power Company and US\$67 million to KEPCO Middle East Holding Company SPC in favor of XENEL, a power company located in Saudi Arabia and a partner in the business.
- (5) On August 2, 2010, a consortium led by us was selected as the preferred bidder in an international auction for the construction and operation of the Norte II gas-fueled combined-cycle electricity generation facility in Chihuahua, Mexico, as ordered by the Comision Federal de Electricidad ( CFE ) of Mexico. The consortium established a special purpose vehicle, KST Electric Power Company, to act as the operating entity, and we have provided Comision Federal de Electricidad with a performance guarantee amounting to US\$23 million for KST Electric Power Company's obligations under the project. In addition, we have provided SMBC and other financial institutions with a payment guarantee amounting to US\$61 million in the aggregate related to equity bridge loan of KST Electric Power Company.
- (6) In August 2005, a consortium consisting of us, Korea National Oil Corporation, a state-controlled enterprise, and Daewoo Shipbuilding & Marine Engineering won a bid from the federal government of Nigeria for the exploration and production of oil in two off-shore blocks. This consortium holds a 60% equity interest in the special purpose vehicle established to carry out the project regarding these two blocks. We hold a 15% equity interest in the consortium. In March 2006, the consortium entered into production sharing contracts with the Nigerian National Petroleum Corporation in connection with this project. Under these contracts, if the consortium is successful in finding oil, it will be entitled to operate the related facilities for 20 years. Regarding the exploration and development project, we provided the Nigeria government with a performance guarantee of US\$34.7 million. However, on January 9, 2009, the consortium was informed of a unilateral decision by the government of Nigeria to void allocation of the oil blocks granted to the consortium and refund the prepaid signature bonus. The leader of the consortium, Korea National Oil Corporation has filed a suit in the Nigerian court and won the case on August 21, 2009. As of December 31, 2010, Nigeria's government has appealed a federal court's decision and the case is currently pending.
- (7) On October 18, 2010, a consortium including us was selected by Abu Dhabi Water & Electricity Authority ( ADWEA ), a state-run utilities provider in the United Arab Emirates, as the preferred bidder in an international bidding for the construction and operation of the combined-cycle natural gas-fired electricity generation facilities in Shuweihat, UAE with an expected aggregate generation capacity of 1,600 megawatts. In connection with this project, we have provided a performance guarantee to ADWEA for Shuweihat Asia Power Investment B.V. and Shuweihat Asia O&M Co.'s obligations under the project.
- (8) In 2011, we engaged in a 200 megawatt oil-fired power plant project in Cebu through our affiliate, KEPCO SPC Power Co. We have provided a payment guarantee amounting to US\$221 million for KEPCO SPC Power Co.'s obligations under the project.
- (9) We invested in power plant construction business in Rabigh, Saudi Arabia through KEPCO Netherlands B.V. (the wholly-owned subsidiary), and established Rabigh Electricity Company (having a 40% ownership) to operate this business. Rabigh Electricity Company has provided the Saudi Electricity Company with the performance guarantee for PPA contract through Saudi British Bank and counter guarantees through EXIM Bank. In relation to the guarantee, we have provided a payment guarantee amounting SAR 100 million to EXIM Bank for the above counter guarantees.

Other than as described in this report and also in Notes 46 and 48 of the notes to our consolidated financial statements, we did not have any other material purchase obligations, credit lines and guarantee commitments provided to any third parties as of December 31, 2011.

We are subject to a number of legal proceedings. For a description of our legal proceedings, see Item 8A. Consolidated Statements and Other Financial Information - Legal Proceedings.



## **Table of Contents**

### **ITEM 6. DIRECTORS, SENIOR MANAGEMENT AND EMPLOYEES**

#### **Item 6A. Directors and Senior Management**

##### **Board of Directors**

Under the KEPCO Act, the Public Agencies Management Act and our Articles of Incorporation, our board of directors, which is required to consist of not more than 15 directors, including the president, is vested with the authority over our management.

Pursuant to our Articles of Incorporation and the Public Agencies Management Act, we have two types of directors: standing directors (sangim-isa in Korean) and non-standing directors (bisangim-isa in Korean). The standing directors refer to our directors who serve their positions in full-time capacity. Many of our standing directors concurrently hold executive positions with us or our subsidiaries. The non-standing directors refer to our directors who do not serve their positions in full-time capacity. The non-standing directors currently do not hold any executive positions with us or our subsidiaries.

Under our Articles of Incorporation, there may not be more than seven standing directors, including our president, and more than eight non-standing directors. The number of standing directors, including our president, may not exceed the number of non-standing directors. A senior non-standing director appointed by the Ministry of Strategy and Finance becomes our chairman of the board following the review and resolution of the Public Agencies Operating Committee.

Our president is appointed by the President of the Republic upon the motion of the Ministry of Knowledge Economy following the nomination by our director nomination committee, the review and resolution of the Public Agencies Operating Committee pursuant to the Public Agencies Management Act and an approval at the general meeting of our shareholders. Our controller & auditor general is appointed by the President of the Republic upon the motion of the Ministry of Strategy and Finance following the nomination by our director nomination committee, the review and resolution of the Public Agencies Operating Committee pursuant to the Public Agencies Management Act and an approval at the general meeting of our shareholders. Standing directors (other than our president and controller & auditor general) are appointed by our president with the approval at the general meeting of our shareholders.

On January 24, 2011, the Ministry of Knowledge Economy changed the designation of our generation subsidiaries from other public institutions to market-oriented public enterprise. As other public institutions under the provisions of the Public Agencies Management Act, our generation subsidiaries were not subject to the same regulations applicable to us with regards to corporate governance matters such as the appointment and dismissal of directors and the composition of the boards of directors. However, as market-oriented public enterprises, our generation subsidiaries are currently subject to the same corporate governance rules applicable to us. All of our generation subsidiaries accordingly amended their respective articles of incorporation in 2011 and are currently generally subject to the same system of regulations applicable to us.

The non-standing directors must be appointed by the Ministry of Strategy and Finance following the review and resolution of the Public Agencies Operating Committee from a pool of candidates recommended by the director nomination committee and must have ample knowledge and experience in business management. Government officials that are not part of the teaching staff in national and public schools are ineligible to become our non-standing directors. Our president serves as our chief executive officer and represents us and administers our day-to-day business in all matters and bears the responsibility for the management's performance. The term of our president is three years, while that of our directors is two years. According to the Public Agencies Management Act, our president's term cannot be terminated unless done so by the President of the Republic pursuant to the Public Agencies Management Act or upon an event as specified in our Articles of Incorporation.

Attendance by a majority of the board members constitutes a voting quorum for our board meetings, and resolutions can be passed by a majority of the board members. In the event the president acts in violation of law

**Table of Contents**

or the Articles of Incorporation, is negligent in his duties, or otherwise is deemed to be significantly impeded in performing his official duties as chief executive officer, the board of directors may by resolution request the Minister of the Ministry of Knowledge Economy to dismiss or recommend the dismissal of the president.

Non-standing directors may request any information necessary to fulfill their duties from the chief executive officer, and except in special circumstances, the chief executive officer must comply with such request.

The names, titles and outside occupations, if any, of the directors as of April 6, 2012 and the respective years in which they took office are set forth below.

<b>Name</b>	<b>Age</b>	<b>Title</b>	<b>Outside Occupation</b>	<b>Position Held Since</b>
Kim, Joong-Kyum	(62)	President and Chief Executive Officer and Standing Director	None	September 16, 2011
Han, Dae-Soo	(67)	Standing Director and Controller & Auditor General	None	January 24, 2011
Cho, In-Kook	(57)	Standing Director and Executive Vice President of Domestic Operations	None	March 11, 2011
Byun, Jun-Yeon	(57)	Standing Director and Executive Vice President of Overseas Operations & Chief Nuclear Officer	None	April 22, 2011
Kim, Jong-Ho	(57)	Standing Director and Executive Vice President & Chief Human Resources Officer	None	March 11, 2011
Kim, Chong-Young	(57)	Standing Director and Executive Vice President & Chief Technology Officer	None	March 11, 2011
Koo, Bon-Woo	(56)	Standing Director and Executive Vice President & Chief Operating Officer	None	February 20, 2012
Lee, Tae-Sik	(65)	Non-Standing Director	Advisor, SK Energy Co., Ltd.	June 8, 2011
Lee, Gi-Pyo	(53)	Non-Standing Director	Chief, Boyun Social Welfare Center of Busan	October 19, 2009
Shin, Il-Soon	(63)	Non-Standing Director	Policy advisor of Grand National Party	April 11, 2011
Kim, Kyung-Min	(63)	Non-Standing Director and member of the Audit Committee	Professor, Department of Political Science and Diplomacy, Hanyang University	June 8, 2011
Chung, Hae-Joo	(68)	Non-Standing Director	Chairman of the Board, Korea Testing & Research Institute	June 30, 2011
Nam, Dong-Kyoon	(59)	Non-Standing Director and member of the Audit Committee		October 24, 2011
Ryu, Chang-Moo	(61)	Non-Standing Director	None	February 6, 2012

**Table of Contents**

*Kim, Joong-Kyum* has been our President, Chief Executive Officer and Standing Director since September 16, 2011. Prior to his current position, he served as President and CEO of Hyundai Engineering & Construction Co., Ltd., a leading construction company based in Korea. Mr. Kim received a B.S. in architectural engineering from Korea University.

*Han, Dae-Soo* has been our Standing Director and Controller & Auditor General since January 24, 2011. Prior to his current position, he served as Second Deputy Secretary-General of the Grand National Party, the current ruling political party in Korea. Mr. Han received an M.A. in public administration from Yonsei University.

*Cho, In-Kook* has been our Standing Director since March 11, 2011. Mr. Cho also currently serves as our Executive Vice President of Domestic Operations and previously served as our Executive Vice President and Chief Operating Officer. Mr. Cho received a B.A. in economics from Hanyang University.

*Byun, Jun-Yeon* has been our Standing Director since April 22, 2011. Mr. Byun also currently serves as our Executive Vice President of Overseas Operations and Chief Nuclear Project Officer and previously served as our Executive Vice President and Chief Global Business Officer. Mr. Byun received a B.S. in electrical engineering from Korea University.

*Kim, Jong-Ho* has been our Standing Director since March 11, 2011. Mr. Kim also currently serves as our Executive Vice President and Chief Human Resources Officer and previously served as our Vice President of the Labor Management Department. Mr. Kim received a B.A. in economics from Chung-Ang University.

*Kim, Chong-Young* has been our Standing Director since March 11, 2011. Mr. Kim also currently serves as our Executive Vice President and Chief Technology Officer and previously served as our Vice President of the KEPCO Research Institute. Mr. Kim received a D.S. in metallurgical engineering from Seoul National University.

*Koo, Bon-Woo* has been our Standing Director since February 20, 2012. Mr. Koo also currently serves as our Executive Vice President and Chief Operating Officer and previously served as our Vice President of Transmission Operation Department. Mr. Koo received a B.S. in electrical engineering from Chung-Ang University.

*Lee, Tae-Sik* has been our Non-Standing Director since June 8, 2011. Mr. Lee is currently an advisor of SK Energy Co., Ltd. Mr. Lee received a B.A. in political science from Seoul National University and an M.A. in international public policy from Johns Hopkins University.

*Lee, Gi-Pyo* has been our Non-Standing Director since October 19, 2009. Mr. Lee is currently a chief of Bohyun Social Welfare Center of Busan.

*Shin, Il-Soon* has been our Non-Standing Director since April 11, 2011. Mr. Shin is currently a policy advisor to the Grand National Party. Mr. Shin received a B.S. in electrical engineering from U.S. Military Academy (West Point), an M.A. in military art and science from the United States Army Command and General Staff College and a M.A. in business administration from Kyungnam University.

*Kim, Kyung-Min* has been our Non-Standing Director since June 8, 2011. Mr. Kim is currently a professor of political science and diplomacy in Hanyang University. Mr. Kim received a B.A. in politics from Hanyang University and a Ph.D in political science from the University of Missouri.

*Chung, Hae-Joo* has been our Non-Standing Director since June 30, 2011. Mr. Chung is currently the chairman of the board of the Korea Testing & Research Institute. Mr. Jung received a B.A. in law from Seoul National University and completed a public policy course at Seoul National University Graduate School of Public Administration.

## **Table of Contents**

*Nam, Dong-Kyoon* has been our Non-Standing Director since October 24, 2011. Mr. Nam previously served as the Vice Mayor for Political Affairs, Daegu Metropolitan City. Mr. Nam received an M.A. in economics from Vanderbilt University.

*Ryu, Chang-Moo* has been our Non-Standing Director since February 6, 2012. Mr. Ryu previously served as the president of Korea Trade Insurance Corporation. Mr. Ryu received a B.A. in Business Administration from Sungkyunkwan University and a M.A. in Business from Brunel University.

The business address of our directors is 167 Samseong-Dong, Gangnam-Gu, Seoul, Korea.

## **Audit Committee**

Under the Public Agencies Management Act, which took effect as of April 1, 2007, we are designated as a market-oriented public enterprise and, as such, are required to establish an audit committee in lieu of the preexisting board of auditors upon expiration of the term of the last remaining member of the board of auditors. In September 2007, we amended our Articles of Incorporation to establish, in lieu of the pre-existing board of auditors, an audit committee meeting the requirements under the Sarbanes-Oxley Act. Under the Public Agencies Management Act, the Korean Commercial Code and the amended Articles of Incorporation, we are required to maintain an audit committee consisting of three members, of which not less than two members are required to be the non-standing directors. The roles and responsibilities of our audit committee members are to perform the functions of an audit committee meeting the requirements under the Sarbanes-Oxley Act. Our audit committee was established on December 8, 2008.

Our audit committee currently consists of Han, Dae Soo, a standing director, and Kim, Kyung-Min and Nam, Dong-Kyoon, both non-standing directors. All such members of the audit committee are independent within the meaning of the Korea Stock Exchange listing standards, the regulations promulgated under the Korean Commercial Code and the New York Stock Exchange listing standards.

## **Item 6B. Compensation**

In 2011, the aggregate amount of remuneration paid and accrued to our directors and executive officers in the aggregate was Won 1,301 million. The aggregate amount accrued in 2011 to provide retirement and severance benefits for our directors and executive officers was Won 56 million.

## **Item 6C. Board Practices**

Under the Public Agencies Management Act and our Articles of Incorporation, the term of office for our directors and executive officers that are appointed after April 1, 2007 is three years for the president and two years for other executive officers. The officers and the directors may be reappointed for an additional term of one year. In order to be reappointed, the president must be evaluated on the basis of his management performance; a standing director, on the basis of the performance of the duties for which he was elected to perform, or if the standing director has executed an incentive bonus contract, on the basis of his performance under the contract; and a non-standing director, on the basis of his performance of the duties for which he was elected to perform.

Our board currently does not maintain a compensation committee. See Item 16G. Corporate Governance. However, we currently maintain an audit committee meeting the requirements of the Sarbanes-Oxley Act to perform the roles and responsibilities of the compensation committee. Prior to the establishment of the audit committee on December 8, 2008 pursuant to the Public Agencies Management Act, we maintained a board of auditors, which performed the roles and responsibilities required of an audit committee under the Sarbanes-Oxley Act, including the supervision of the financial and accounting audit by the independent registered public accountants.

**Table of Contents**

The president's management contract provides for benefits upon termination of his employment. The amount for termination benefits payable equals the average value of compensation for one month times the number of years the president is employed by us, provided that the president is only eligible for termination benefits after more than one year of continuous service.

The termination benefits for standing directors are determined in accordance with our internal regulations for executive compensation. Standing directors are only eligible for benefits upon termination of employment or death following one year of continuous service.

See also Item 16G. Corporate Governance for a further description of our board practices.

**Item 6D. Employees**

As of December 31, 2011, we and our generation subsidiaries had a total of 37,828 regular employees, almost all of whom are employed within Korea. Approximately 10.4% of our regular employees (including employees of our generation subsidiaries) are located at the head offices of us and our generation subsidiaries.

The following table sets forth the number of and other information relating to our employees, not including directors or senior management, as of December 31, 2011.

	KEPCO	KHNP	KOSEP	KOMIPO	KOWEPO	KOSPO	EWP	Total
Regular Employees								
Administrative	4,400	792	223	253	208	248	213	6,337
Engineers	9,056	7,078	1,453	1,629	1,367	1,459	1,646	23,688
Others	5,847	1,112	195	253	146	152	98	7,803
<b>Total</b>	<b>19,303</b>	<b>8,982</b>	<b>1,871</b>	<b>2,135</b>	<b>1,721</b>	<b>1,859</b>	<b>1,957</b>	<b>37,828</b>
Head Office Employees	1,355	1,032	369	266	259	289	346	3,916
% of total	7.0	11.5	19.7	12.5	15	15.5	17.7	10.4
Members of Labor Union	14,608	5,558	1,235	1,416	1,111	1,190	1,281	26,399
% of total	75.7	61.9	66.0	66.3	64.6	64.0	65.5	69.8

We and each of our generation subsidiaries have separate labor unions. Approximately 69.8% of our and our generation subsidiaries' employees in the aggregate are members of these labor unions, each of which negotiates a collective bargaining agreement for its members each year.

Under applicable Korean law, an employee-employer cooperation committee, which is composed of eight representatives of management and eight representatives of labor, is required to be, and has been, established at the holding company and at each of our generation subsidiaries. The committee meets periodically to discuss various labor issues.

Since our formation in 1981, our businesses had not been interrupted by any work stoppages or strikes except in early 2002, when employees belonging to our five non-nuclear generation subsidiaries went on strike for six weeks to protest the Government's decision to privatize such non-nuclear generation subsidiaries according to the Restructuring Plan, which privatization plan has since been suspended indefinitely. See Item 3D. Risk Factors Risks Relating to KEPCO The Government may adopt policy measures to substantially restructure the Korean electric power industry or our operational structure, which may have a material adverse effect on our business, operations and profitability.

We believe our relations with our employees are generally good.

**Item 6E. Share Ownership**

None of our directors and members of our administrative, supervisory or management bodies own more than 0.1% of our common stock.

**Table of Contents****ITEM 7. MAJOR SHAREHOLDERS AND RELATED PARTY TRANSACTIONS****Item 7A. Major Shareholders**

The following table sets forth certain information relating to certain owners of our capital stock as of December 31, 2011, the date we last closed our shareholders registry:

Title of Class	Identity of Person or Group	Shares Owned	Percentage of Class <sup>(1)</sup> (%)
Common stock	Government	135,917,118	21.17
	Korea Finance Corporation <sup>(2)</sup>	192,159,940	29.94
	Subtotal	328,077,058	51.11
	Korea Resolution & Collection Corporation <sup>(3)</sup>	32,210,933	5.02
	National Pension Corporation	24,087,867	3.75
	KEPCO (held in the form of treasury stock)	18,929,995	2.95
	Employee Stock Ownership Association		
	Directors and executive officers as a group		
	Public (non-Koreans)	150,112,797	23.38
	Common shares	92,680,326	14.43
	American depository shares	57,432,471	8.95
	Sub Total	553,418,650	86.21
	Public (Koreans)	88,545,427	13.79
	Total	641,964,077	100.00

*Notes:*

- (1) Percentages are based on issued shares of common stock (including treasury stock).
- (2) Korea Finance Corporation is a Government-controlled entity.
- (3) Korea Resolution & Collection Corporation is a wholly-owned subsidiary of the Korea Deposit Insurance Corporation that specializes in the resolution, management and collection of debts and assets originated from troubled financial institutions.

All of our shareholders have equal voting rights. See Item 10B. Memorandum and Articles of Incorporation Description of Capital Stock Voting Rights.

**Item 7B. Related Party Transactions**

We are engaged in a variety of transactions with our affiliates. We have related party transactions with Government-controlled entities such as Korea Gas Corporation, our consolidated subsidiaries and our equity investees. In addition, we engage in related party transactions with Korea Finance Corporation, one of our major shareholders. See Note 46 of the Notes to our consolidated financial statements included in this report for a description of transaction and balances with our related parties.

In the past three years, our related party transactions principally consisted of purchases of LNG from Korea Gas Corporation, sales of electricity to Korea District Heating Co., Ltd., and long-term borrowings from Korea Finance Corporation. In 2010 and 2011, we and our generation subsidiaries purchased LNG from Korea Gas Corporation in the aggregate amount of Won 6,930 billion and Won 9,377 billion, respectively. As of December 31, 2011, we had long-term borrowings from Korea Finance Corporation in the aggregate amount of Won 1,872 billion.

We also engage in extensive transactions with our consolidated generation subsidiaries, including the purchase of electricity from them through Korea Power Exchange, sales of electricity to them, payment and



**Table of Contents**

receipt of commissions for services and receivables and payables transactions. These are eliminated in the consolidation process. We also provide guarantees for certain of our affiliates. See Item 5F. Tabular Disclosure of Contractual Obligations Overdraft and Others. We also have certain relationships with the Korea Power Exchange. See Item 4B. Business Overview Purchase of Electricity Cost-based Pool System.

For a further description of our transactions with our affiliates, see Notes 18 and 46 of the Notes to our consolidated financial statements included in this report. For a further description of our transactions with our consolidated subsidiaries, see Note 46 of the Notes to our consolidated financial statements included in this report.

**Item 7C. Interests of Experts and Counsel**

Not Applicable



## **Table of Contents**

### **ITEM 8. FINANCIAL INFORMATION**

#### **Item 8A. Consolidated Statements and Other Financial Information**

We prepare our consolidated financial statements in compliance with requirements under Item 18. Financial Statements.

#### **Legal Proceedings**

As of December 31, 2011, we, including our generation subsidiaries, were engaged in 429 lawsuits as the defendant and 103 lawsuits as the plaintiff. As of the same date, the total amount of damages claimed against us was Won 138 billion, for which we have made a reserve of Won 44 billion as of December 31, 2011, and the total amount claimed by us was Won 21 billion as of December 31, 2011. While the outcome of these lawsuits cannot presently be determined, our management believes that the final results from these lawsuits will not have a material adverse effect on our liquidity, financial position or results of operation.

Our generation subsidiaries, currently and from time to time, are involved in lawsuits incidental to the conduct of their business. A significant number of such lawsuits are based on the claim that the construction and operation of the electricity generation units owned by our generation subsidiaries have impaired neighboring fish farms. Our generation subsidiaries normally pay compensation to the members of fishery associations near our power plant complex for expected losses and damages arising from the construction and operation of their power plants in advance. Despite such compensation paid by us, a claim may still be filed against our generation subsidiaries challenging the compensation paid by us. We do not believe such claims or proceedings, individually or in the aggregate, have had or will have a material adverse effect on us and our generation subsidiaries. However, we cannot assure you that this will be the case in the future, given the possibility that we may become subject to more litigation and lawsuits arising from changes in the environmental laws and regulations applicable to us and our generation subsidiaries and people's growing demand for more compensation.

#### **Dividend Policy**

For our dividend policy, see Item 10B. Memorandum and Articles of Incorporation Description of Capital Stock Dividend Rights. For a description of the tax consequences of dividends paid to our shareholders, see Item 10E. Taxation Korean Taxes Shares or ADSs Dividends on the Shares of Common Stock or ADSs and Item 10E. Taxation U.S. Federal Income and Estate Tax Consideration for U.S. Persons Tax Consequences with Respect to Common Stock and ADSs Distributions on Common Stock or ADSs.

#### **Item 8B. Significant Changes**

Not Applicable

**Table of Contents****ITEM 9. THE OFFER AND LISTING****Item 9A. Offer and Listing Details****Notes**

We have issued the following registered notes and debentures, which are traded principally in the over-the counter market:

7-3/4% Debentures due April 1, 2013 (the 7-3/4% Debentures );

7.40% Amortizing Debentures, due April 1, 2016 (the 7.40% Debentures );

7.95% Zero-To-Full Debentures, due April 1, 2096 (the 7.95% Debentures );

6% Debentures due December 1, 2026, (the 6% Debentures );

7% Debentures due February 1, 2027 (the 7% Debentures ); and

6-3/4% Debentures due August 1, 2027 (the 6-3/4% Debentures, and together with the 7-3/4% Debentures, the 7.40% Debentures, the 7.95% Debentures, the 6% Debentures and the 7% Debentures, the Registered Debt Securities ).

Sales prices for the Registered Debt Securities are not regularly reported on any United States securities exchange or other United States securities quotation service.

**Share Capital**

The principal trading market for our common stock is the Korea Exchange. Our common stock is also listed on the New York Stock Exchange in the form of ADSs. The ADSs have been issued by JPMorgan Chase Bank as depositary and are listed on the New York Stock Exchange under the symbol KEP. One ADS represents one-half of one share of our common stock. As of December 31, 2011, the date we last closed our shareholders registry, 114,864,942 ADSs representing 9.0% shares of our common stock were outstanding.

**Common Stock**

Shares of our common stock are listed on the KRX KOSPI Market of the Korea Exchange. The table below shows the high and low closing prices on the KRX KOSPI Market of the Korea Exchange for our common stock since 2007.

Period	Price	
	High	Low
	(In Won)	
2007		
First Quarter	44,800	37,500
Second Quarter	42,300	37,500
Third Quarter	47,700	40,150
Fourth Quarter	43,300	37,250
2008		

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

First Quarter	39,500	28,200
Second Quarter	34,150	30,200
Third Quarter	42,300	37,500
Fourth Quarter	32,950	21,000
2009		
First Quarter	32,500	23,000
Second Quarter	30,600	25,700
Third Quarter	35,800	28,000
Fourth Quarter	35,700	31,550

**Table of Contents**

Period	Price	
	High	Low
<b>(In Won)</b>		
2010		
First Quarter	41,600	33,800
Second Quarter	36,600	30,700
Third Quarter	33,600	28,800
Fourth Quarter	32,700	27,700
2011		
First Quarter	30,050	25,800
Second Quarter	30,000	25,600
Third Quarter	28,400	20,450
Fourth Quarter	27,150	20,650
2012 (through April 17)		
January	27,900	25,100
February	27,900	24,900
March	25,050	22,250
April (through April 17)	22,650	22,150

**ADSs**

The table below shows the high and low closing prices on the New York Stock Exchange for the outstanding ADSs since 2007. Each ADS represents one-half of one share of our common stock.

Period	Price	
	High	Low
<b>(In US\$)</b>		
2007		
First Quarter	23.64	19.82
Second Quarter	22.77	20.38
Third Quarter	25.71	20.75
Fourth Quarter	23.87	19.75
2008		
First Quarter	20.66	13.99
Second Quarter	16.83	14.40
Third Quarter	16.32	12.08
Fourth Quarter	12.50	7.23
2009		
First Quarter	12.38	6.90
Second Quarter	12.37	9.34
Third Quarter	15.24	10.99
Fourth Quarter	15.25	13.52
2010		
First Quarter	17.89	14.86
Second Quarter	16.55	12.70
Third Quarter	14.19	12.28
Fourth Quarter	14.54	11.91
2011		
First Quarter	13.48	11.39
Second Quarter	13.74	11.86
Third Quarter	13.35	8.50
Fourth Quarter	11.55	8.25

**Table of Contents**

Period	Price	
	High	Low
2012 (through April 17)		
January	12.33	11.15
February	12.45	11.05
March	11.21	9.73
April (through April 17)	9.92	9.53

**Item 9B. Plan of Distribution**

Not Applicable

**Item 9C. Markets****The Korea Exchange**

The Korea Exchange began its operations in 1956, originally under the name of the Korea Stock Exchange. On January 27, 2005, pursuant to the Korea Securities and Futures Exchange Act, the Korea Exchange was officially created through the consolidation of the Korea Stock Exchange, the Korea Futures Exchange, the KOSDAQ Stock Market, Inc., or KOSDAQ, and the KOSDAQ Committee within the Korea Securities Dealers Association, which was in charge of the management of the KOSDAQ. The KRX KOSPI Market of the Korea Exchange, formerly the Korea Stock Exchange, has a single trading floor located in Seoul. The Korea Exchange is a limited liability company, the shares of which are held by (i) securities companies and futures companies that were the members of the Korea Stock Exchange or the Korea Futures Exchange and (ii) the shareholders of the KOSDAQ.

As of April 17, 2012 the aggregate market value of equity securities listed on the KOSPI of the Korea Exchange was approximately Won 1,141,884 billion. The average daily trading volume of equity securities for 2011 was approximately 354 million shares with an average transaction value of Won 6,883 billion.

The Korea Exchange has the power in some circumstances to suspend trading of shares of a given company or to de-list a security. The Korea Exchange also restricts share price movements. All listed companies are required to file accounting reports annually, semi-annually and quarterly and to release immediately all information that may affect trading in a security.

The Government has in the past exerted, and continues to exert, substantial influence over many aspects of the private sector business community which can have the intention or effect of depressing or boosting the market. In the past, the Government has informally both encouraged and restricted the declaration and payment of dividends, induced mergers to reduce what it considers excess capacity in a particular industry and induced private companies to publicly offer their securities.

The Korea Exchange publishes the Korea Composite Stock Price Index, or KOSPI, every thirty seconds, which is an index of all equity securities listed on the KRX KOSPI Market of the Korea Exchange. On January 1, 1983, the method of computing KOSPI was changed from the Dow Jones method to the aggregate value method. In the new method, the market capitalizations of all listed companies are aggregated, subject to certain adjustments, and this aggregate is expressed as a percentage of the aggregate market capitalization of all listed companies as of the base date, January 4, 1980.

**Table of Contents**

Movements in KOSPI in the past five years are set out in the following table:

	<b>Opening</b>	<b>High</b>	<b>Low</b>	<b>Closing</b>
2007	1,435.3	2,064.4	1,192.8	1,897.1
2008	1,853.5	1,888.9	938.8	1,124.5
2009	1,157.4	1,718.9	1,018.8	1,682.8
2010	1,696.1	2,043.5	1,552.8	2,043.5
2011	2,070.1	2,228.9	1,706.2	1,825.7
2012 (through April 17)	1,826.5	2,049.3	1,826.4	1,985.3

*Source:* The Korea Exchange

Shares are quoted ex-dividend on the first trading day of the relevant company's accounting period; since the calendar year is the accounting period for the majority of listed companies, this may account for the drop in KOSPI between its closing level at the end of one calendar year and its opening level at the beginning of the following calendar year.

With certain exceptions, principally to take account of a share being quoted ex-dividend and ex-rights, upward and downward movements in share prices of any category of shares on any day are limited under the rules of the Korea Exchange to 15% of the previous day's closing price of the shares, rounded down as set out below:

<b>Previous Day's Closing Price (Won)</b>	<b>Rounded Down to (Won)</b>
less than 5,000	5
5,000 to less than 10,000	10
10,000 to less than 50,000	50
50,000 to less than 100,000	100
100,000 to less than 500,000	500
500,000 or more	1,000

As a consequence, if a particular closing price is the same as the price set by the fluctuation limit, the closing price may not reflect the price at which persons would have been prepared, or would be prepared to continue, if so permitted, to buy and sell shares. Orders are executed on an auction system with priority rules to deal with competing bids and offers.

Due to deregulation of restrictions on brokerage commission rates, the brokerage commission rate on equity securities transactions may be determined by the parties, subject to commission schedules being filed with the Korea Exchange by the securities companies. In addition, a securities transaction tax will generally be imposed on the transfer of shares or certain securities representing rights to subscribe for shares. A special agricultural and fishery tax of 0.15% of the sales prices will also be imposed on transfer of these shares and securities on the Korea Exchange. See Item 10E. **Taxation** Korean Taxes.

**Table of Contents**

The number of companies listed on the KRX KOSPI Market of the Korea Exchange since 2007, the corresponding total market capitalization at the end of the periods indicated and the average daily trading volume for those periods are set forth in the following table:

Year	Number of Listed Companies	Total Market Capitalization on the last day for each period		Average Daily Trading Volume, Value		
		(Millions of Won)	(Thousands of U.S. dollars) <sup>(1)</sup>	(Thousands of Shares)	(Millions of Won)	Thousands of U.S. dollars) <sup>(1)</sup>
2007	746	951,900,447	1,014,612,517	363,732	5,539,588	5,919,628
2008	765	576,927,703	458,789,426	355,205	5,189,644	4,126,953
2009	770	887,935,183	760,478,917	485,657	5,795,552	4,963,645
2010	777	1,141,885,458	1,002,621,352	380,859	5,619,768	4,934,382
2011	791	1,041,999,162	903,493,594	353,759	6,883,146	5,950,877
2012 (as of April 17)	789	1,141,883,974	1,003,677,572	500,531	4,991,720	4,387,554

Source: The Korea Exchange

Note:

- (1) Converted at the Concentration Base Rate of The Bank of Korea or the market average exchange rate as announced by Seoul Money Brokerage Services, Ltd. in Seoul, as the case may be, at the end of the periods indicated.

The Korean securities markets are principally regulated by the Financial Services Commission and the Financial Investment Services and Capital Markets Act. The law imposes restrictions on insider trading and price manipulation, requires specified information to be made available by listed companies to investors and establishes rules regarding margin trading, proxy solicitation, takeover bids, acquisition of treasury shares and reporting requirements for shareholders holding substantial interests. Beginning on February 4, 2009, the Korean securities markets became subject to the Financial Investment Services and Capital Markets Act.

#### Protection of Customer's Interest in Case of Insolvency of Financial Investment Companies with a Brokerage License

Under Korean law, the relationship between a customer and a financial investment company with a brokerage license in connection with a securities sell or buy order is deemed to be consignment, and the securities acquired by a consignment agent (i.e., the financial investment company with a brokerage license) through such sell or buy order are regarded as belonging to the customer insofar as the customer and the consignment agent's creditors are concerned. Therefore, in the event of bankruptcy or reorganization procedures involving a financial investment company with a brokerage license, the customer of such financial investment company is entitled to the proceeds of the securities sold by such financial investment company.

When a customer places a sell order with a financial investment company with a brokerage license which is not a member of the Korea Exchange and this financial investment company places a sell order with another financial investment company with a brokerage license which is a member of the Korea Exchange, the customer is still entitled to the proceeds of the securities sold received by the non-member company from the member company regardless of the bankruptcy or reorganization of the non-member company.

Likewise, when a customer places a buy order with a non-member company and the non-member company places a buy order with a member company, the customer has the legal right to the securities received by the non-member company from the member company, because the purchased securities are regarded as belonging to the customer insofar as the customer and the non-member company's creditors are concerned.

Under the Financial Investment Services and Capital Markets Act, the Korea Exchange is obliged to indemnify any loss or damage incurred by a counterparty as a result of a breach by its members. If a financial

**Table of Contents**

investment company with a brokerage license which is a member of the Korea Exchange breaches its obligation in connection with a buy order, the Korea Exchange is obliged to pay the purchase price on behalf of the breaching member.

As the cash deposited with a financial investment company with a brokerage license is regarded as belonging to such financial investment company, which is liable to return the same at the request of its customer, the customer cannot take back deposited cash from the financial investment company with a brokerage license if a bankruptcy or reorganization procedure is instituted against such financial investment company and, therefore, can suffer from loss or damage as a result. However, the Depositor Protection Act provides that Korean Deposit Insurance Corporation will, upon the request of the investors, pay investors up to Won 50 million per depositor per financial institution in case of the such financial investment company's bankruptcy, liquidation, cancellation of securities business license or other insolvency events (collectively, the Insolvency Events). Pursuant to the Financial Investment Services and Capital Markets Act, subject to certain exceptions, financial investment companies with a brokerage license are required to deposit the cash received from their customers with the Korea Securities Finance Corporation, a special entity established pursuant to the Financial Investment Services and Capital Markets Act. Set-off or attachment of cash deposits by financial investment companies with a brokerage license is prohibited. The premiums related to this insurance under the Depositor Protection Act are paid by financial investment companies with a brokerage license.

**Item 9D. Selling Shareholders**

Not Applicable

**Item 9E. Dilution**

Not Applicable

**Item 9F. Expenses of the Issue**

Not Applicable



## **Table of Contents**

### **ITEM 10. ADDITIONAL INFORMATION**

#### **Item 10A. Share Capital**

Not Applicable

#### **Item 10B. Memorandum and Articles of Incorporation**

Set forth below is information relating to our capital stock, including brief summaries of material provisions of our Articles of Incorporation, the KEPCO Act, the Financial Investment Services and Capital Markets Act, the Korean Commercial Code and certain related laws of Korea, all currently in effect. The following summaries are qualified in their entirety by reference to our Articles of Incorporation and the applicable provisions of the KEPCO Act, Financial Investment Services and Capital Markets Act, the Korean Commercial Code and certain related laws of Korea. In order to comply with the Public Agencies Management Act, we amended our Articles of Incorporation and our internal regulations in March 2009, and in March 2010, March 2011 and April 2012, we again amended our Articles of Incorporation to reflect the amendments to the KEPCO Act, the Korean Commercial Code and the Public Agencies Management Act, as well as other relevant laws and regulations of Korea.

#### **Objects and Purposes**

We are a statutory juridical corporation established under the KEPCO Act for the purpose of ensuring stabilization of the supply and demand of electric power, and further contributing toward the sound development of the national economy through expediting development of electric power resources and carrying out proper and effective operation of the electricity business. The KEPCO Act and our Articles of Incorporation contemplate that we engage in the following activities:

1. development of electric power resources;
2. generation, transmission, transformation, distribution of electricity and other related business;
3. research and technology development related to the businesses mentioned in items 1 and 2;
4. overseas business related to the businesses mentioned in items 1 through 3;
5. investments or contributions related to the businesses mentioned in items 1 through 4;
6. businesses incidental to items 1 through 5;
7. development and operation of real estate holdings, subject to certain restrictions pursuant to Presidential Decree of the KEPCO Act;  
and
8. other businesses entrusted by the Government.

Our registered name is Hankook Chollryuk Kongsae in Korean and Korea Electric Power Corporation in English. Our registration number in the commercial registry office is 114671-0001456.

#### **Directors**

## Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Under the KEPCO Act and our Articles of Incorporation, our board of directors consists of our president, standing directors and non-standing directors. A majority of the board members constitutes a voting quorum, and resolutions will be passed by a majority of the board members. Directors who have an interest in certain agenda proposed to the board may not vote on such issues.

The standards of remuneration for our officers, including directors, shall be determined by a resolution of the board of directors, provided that the maximum amount of remuneration to be paid to our officers shall be determined by shareholder resolution and provided that the remuneration standards for the president and standing directors shall be determined by board resolution in accordance with the guideline thereon established by the

## **Table of Contents**

Minister of the Ministry of Strategy and Finance through review and resolution of our management committee. Directors who have an interest may not participate in the meeting of the board of directors for determining the remuneration for officers.

Neither the KEPCO Act nor our Articles of Incorporation have provisions relating to (i) borrowing powers exercisable by the directors and how such borrowing powers can be varied, (ii) retirement or non-retirement of directors under an age limit requirement, or (iii) the number of shares required for a director's qualification.

### **Share Capital**

Currently, our authorized share capital is 1,200,000,000 shares, which consists of shares of common stock and shares of non-voting preferred stock, par value Won 5,000 per share. Under our Articles of Incorporation, we are authorized to issue up to 150,000,000 non-voting preferred shares. As of December 31, 2011, the last day on which the shareholder registry was closed for purposes of identifying shareholders of record, 641,964,077 common shares were issued and no non-voting preferred shares have been issued. As of December 31, 2011, we held 18,929,995 shares of our common stock as treasury stock. All of the issued and outstanding common shares are fully-paid and non-assessable and are in registered form. Share certificates are issued in denominations of 1, 5, 10, 50, 100, 500, 1,000 and 10,000 shares.

### **Description of Capital Stock**

#### ***Dividend Rights***

Under the KEPCO Act, we are authorized to pay preferential dividends on our shares held by public shareholders as opposed to those held by the Government. Dividends to public shareholders are distributed in proportion to the number of shares of the relevant class of capital stock owned by each public shareholder following approval by the shareholders at a general meeting of shareholders. Korea Finance Corporation may receive dividends in proportion to the numbers of our shares held by them. Under the Korean Commercial Code and our Articles of Incorporation, we will pay full annual dividends on newly issued shares.

Under our Articles of Incorporation, holders of non-voting preferred shares (of which there are currently none) are entitled to receive an amount not less than 8% of their par value as determined by a resolution of the board of directors at the time of their issuance. However, if the dividends on our common shares exceed the dividends on our non-voting preferred shares, the holders of non-voting preferred shares will be entitled to participate in the distribution of such excess amount with the holders of the common shares at an equal rate.

We declare our dividend annually at the annual general meeting of shareholders which is held within three months after the end of the fiscal year. The annual dividend is paid to the shareholders on record as of the end of the fiscal year preceding the annual shareholders' meeting. Annual dividends may be distributed either in cash or in our shares. However, a dividend of shares must be distributed at par value, and dividends in shares may not exceed one-half of the annual dividend.

Under the Korean Commercial Code and our Articles of Incorporation, we do not have an obligation to pay any annual dividend unclaimed for five years from the payment date.

The KEPCO Act provides that we shall not pay an annual dividend unless we have made up any accumulated deficit and set aside as a legal reserve an amount equal to 20.0% or more of our net profit until our accumulated reserve reaches one-half of our stated capital.

#### ***Distribution of Free Shares***

In addition to dividends in the form of shares to be paid out of retained or current earnings, the Korean Commercial Code permits us to distribute to our shareholders an amount transferred from our capital surplus or legal reserve to stated capital in the form of free shares.

## **Table of Contents**

### ***Voting Rights***

Holders of our common shares are entitled to one vote for each common share, except that voting rights with respect to any common shares held by us or by a corporate shareholder, more than one-tenth of whose outstanding capital stock is directly or indirectly owned by us, may not be exercised. Any person (with certain exceptions) who holds more than 3% of our issued and outstanding shares cannot exercise voting rights with respect to the shares in excess of this 3% limit. See *Limitation on Shareholdings*. Pursuant to the Korean Commercial Code, cumulative voting is permissible in relation to the appointment of directors. Under the Korean Commercial Code, a cumulative vote can be requested by the shareholders of a corporation representing more than 1% of the total voting shares of such corporation if the relevant shareholders' meeting is intended to elect more than two seats of the board of directors and the request for cumulative voting is made to the management of the corporation in writing at least six weeks in advance of the shareholders' meeting. Under this new voting method, each shareholder will have multiple voting rights corresponding to the number of directors to be appointed in such voting and may exercise all such voting rights to elect one director. Shareholders are entitled to vote cumulatively unless the Articles of Incorporation expressly prohibit cumulative voting. Our current Articles of Incorporation do not prohibit cumulative voting. Except as otherwise provided by law or our Articles of Incorporation, a resolution can be adopted at a general meeting of shareholders by affirmative majority vote of the voting shares of the shareholders present or represented at a meeting, which must also represent at least one-fourth of the voting shares then issued and outstanding. The holders of our non-voting preferred shares (other than enfranchised preferred shares (as described below)) are not entitled to vote on any resolution or to receive notice of any general meeting of shareholders unless the agenda of the meeting includes consideration of a resolution on which such holders are entitled to vote. If we are unable to pay any dividend to holders of non-voting preferred shares as provided in our Articles of Incorporation, the holders of non-voting preferred shares will become enfranchised and will be entitled to exercise voting rights until such dividends are paid. The holders of these enfranchised preferred shares have the same rights as holders of our common shares to request, receive notice of, attend and vote at a general meeting of shareholders. Pursuant to the KEPCO Act and our Articles of Incorporation, the appointment of standing directors, the president and standing statutory auditor are subject to shareholder approval.

Under the Korean Commercial Code, for the purpose of electing our statutory auditor, a shareholder (together with certain related persons) holding more than 3% of the total shares having voting rights may not exercise voting rights with respect to shares in excess of such 3% limit.

The Korean Commercial Code provides that the approval by holders of at least two-thirds of those shares having voting rights present or represented at a meeting, where such shares also represent at least one-third of the total issued and outstanding shares having voting rights, is required in order to, among other things:

amend our Articles of Incorporation;

remove a director or statutory auditor;

effect any dissolution, merger, consolidation or spin-off of us;

transfer the whole or any significant part of our business;

effect the acquisition by us of all of the business of any other company;

effect the acquisition by us of the business of another company that may have a material effect on our business;

reduce capital; or

issue any new shares at a price lower than their par value.

## Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Under our Articles of Incorporation, an approval by the Ministry of Knowledge Economy is required in order to amend the Articles of Incorporation. Any change to our authorized share capital requires an amendment to our Articles of Incorporation.

## **Table of Contents**

In addition, in the case of amendments to our Articles of Incorporation or any merger or consolidation of us or in certain other cases which affect the rights or interests of the non-voting preferred shares a resolution must be adopted by a meeting of the holders of non-voting preferred shares approving such event. This resolution may be adopted if approval is obtained from holders of at least two-thirds of those non-voting preferred shares present or represented at such meeting and such non-voting preferred shares also represent at least one-third of our total issued and outstanding non-voting preferred shares.

A shareholder may exercise his voting rights by proxy. The proxy shall present the power of attorney prior to the start of the general meeting of shareholders. Under the Financial Investment Services and Capital Markets Act and our Articles of Incorporation, no one other than us may solicit a proxy from shareholders.

Subject to the provisions of the Deposit Agreement, holders of our American Depositary Shares ( ADSs ) are entitled to instruct the Depository, whose agent is the record holder of the underlying common shares, how to exercise voting rights relating to those underlying common shares.

### ***Preemptive Rights and Issuance of Additional Shares***

Authorized but unissued shares may be issued at such times and, unless otherwise provided in the Korean Commercial Code, upon such terms as our board of directors may determine. The new shares must be offered on uniform terms to all our shareholders who have preemptive rights and who are listed on the shareholders register as of the record date. Subject to the limitations described under Limitation on Shareholdings below and with certain other exceptions, all our shareholders are entitled to subscribe for any newly issued shares in proportion to their existing shareholdings. Under the Korean Commercial Code, we may vary, without shareholder approval, the terms of such preemptive rights for different classes of shares. Public notice of the preemptive rights to new shares and their transferability must be given not less than two weeks (excluding the period during which the shareholders register is closed) prior to the record date. Our board of directors may determine how to distribute shares for which preemptive rights have not been exercised or where fractions of shares occur.

Our Articles of Incorporation provide that new shares that are (1) publicly offered pursuant to the Financial Investment Services and Capital Markets Act, (2) issued to members of our employee stock ownership association, (3) represented by depositary receipts, (4) issued through offering to public investors, or (5) issued to investors in kind under the State Property Act may be issued pursuant to a resolution of the board of directors to persons other than existing shareholders, who in such circumstances will not have preemptive rights.

We may issue convertible bonds or bonds with warrants each up to an aggregate principal amount of Won 2,000 billion and Won 1,000 billion, respectively, to persons other than existing shareholders. However, the aggregate principal amount of convertible bonds and bonds with warrants so issued to persons other than existing shareholders may not exceed Won 2,000 billion.

Under the Financial Investment Services and Capital Markets Act and our Articles of Incorporation, members of our employee stock ownership association, whether or not they are our shareholders, have a preemptive right, subject to certain exceptions, to subscribe for up to 20.0% of any shares publicly offered pursuant to the Financial Investment Services and Capital Markets Act. This right is exercisable only to the extent that the total number of shares so acquired and held by members of our employee stock ownership association does not exceed 20.0% of the total number of shares then outstanding.

### ***Liquidation Rights***

In the event of our liquidation, the assets remaining after payment of all debts, liquidation expenses and taxes will be distributed among shareholders in proportion to the number of shares held. Holders of our non-voting preferred shares have no preference in liquidation.

## **Table of Contents**

### ***Rights of Dissenting Shareholders***

In certain limited circumstances (including, without limitation, the transfer of the whole or any significant part of our business or the merger, or consolidation upon a split-off of us with another company), dissenting holders of shares have the right to require us to purchase their shares. To exercise such right, shareholders must submit a written notice of their intention to dissent to us prior to the general meeting of shareholders or the class meeting of holders of non-voting preferred shares, as the case may be. Within 20 days after the date on which the relevant resolution is passed at such meeting, such dissenting shareholders must request us in writing to purchase their shares. We are obligated to purchase the shares of dissenting shareholders within one month after the expiration of such 20-day period. The purchase price for such shares must be determined through negotiation between the dissenting shareholders and us. Under the Financial Investment Services and Capital Markets Act, if we cannot agree on a price through negotiation, the purchase price will be the average of (1) the weighted average of the daily share price on the Korea Exchange for a two-month period before the date of adoption of the relevant board resolution, (2) the weighted average of the daily share price on the Korea Exchange for the one month period before such date and (3) the weighted average of the daily share price on the Korea Exchange for the one week period before such date. However, if we or dissenting shareholders who requested us to purchase their shares oppose such purchase price, the determination of a purchase price may be filed with a court. Holders of ADSs will not be able to exercise dissenter's rights unless they have withdrawn the underlying Common Stock and become our direct shareholders.

### **Transfer of Shares**

Under the Korean Commercial Code, the transfer of shares is effected by delivery of share certificates, but in order to assert shareholders' rights against us, the transferee must have his name and address registered on our register of shareholders. For this purpose, shareholders are required to file one's name, address and seal with our transfer agent. Under our Articles of Incorporation, non-resident shareholders must appoint an agent authorized to receive notices on their behalf in Korea and file a mailing address in Korea. These requirements do not apply to the holders of ADSs. Under current Korean regulations, the Korea Securities Depository, foreign exchange banks (including domestic branches of foreign banks), financial investment companies with a dealing, brokerage or collective investment license and internationally recognized foreign custodians are authorized to act as agents and provide related services for foreign shareholders. Our transfer agent is the Kookmin Bank, located at 9-1, Namdaemun-ro, 2-ga, Chung-ku, Seoul, Korea. Certain foreign exchange controls and securities regulations apply to the transfer of our shares by non-residents of Korea or non-Koreans. See Item 9. The Offer and Listing.

### **Acquisition of Our Own Shares**

We generally may not acquire our own shares except in certain limited circumstances, including, without limitation, a reduction in capital. Under the Korean Commercial Code, except in case of a reduction in capital, any of our shares acquired by us must be sold or otherwise transferred to a third party within a reasonable time. In general, our 50.0% or more owned-subsiidiaries are not permitted to acquire our shares.

In addition, we may acquire our shares through purchase on the Korea Exchange or through a tender-offer. We may also acquire interests in our own shares through trust agreements with financial investment companies with a trust license. The aggregate purchase price for our shares may not exceed the total amount available of dividends at the end of the preceding fiscal year, less the amount of dividends and mandatory reserves required to be set aside for that fiscal year, subject to certain procedural requirements.

### **General Meeting of Shareholders**

The ordinary general meeting of our shareholders is held within three months after the end of each fiscal year, and subject to board resolution or court approval, an extraordinary general meeting of our shareholders may be held as necessary or at the request of shareholders holding an aggregate of 1.5% or more of our outstanding

## **Table of Contents**

common shares for at least six consecutive months. Under the Korean Commercial Code, an extraordinary general meeting of shareholders may be convened at the request of our audit committee, subject to a board resolution or court approval. Holders of non-voting preferred shares may only request a general meeting of shareholders once the non-voting preferred shares have become enfranchised as described under Description of Capital Stock Voting Rights above. Written notices setting forth the date, place and agenda of the meeting must be given to shareholders at least two weeks prior to the date of the general meeting of shareholders. However, pursuant to the Korean Commercial Code and our Articles of Incorporation, with respect to holders of less than 1% of the total number of our issued and outstanding shares which are entitled to vote, notice may be given by placing at least two public notices at least two weeks in advance of the meeting in at least two daily newspapers published in Seoul or by placing a public notice in the electrical disclosure system of the Financial Supervisory Service or the Korea Exchange, at least two weeks in advance of the meeting. Currently, for giving such notice, we use two daily newspapers published in Seoul as well as an electronic disclosure system available for access at a website maintained by the FSS (known as the Data Analysis, Retrieval and Transfer System, or DART). Shareholders not on the shareholders register as of the record date are not entitled to receive notice of the general meeting of shareholders or attend or vote at such meeting. Holders of the enfranchised preferred shares on the shareholders register as of the record date are entitled to receive notice of, and to attend and vote at, the general meetings. Otherwise, holders of non-voting preferred shares are not entitled to receive notice of general meetings of shareholders or vote at such meetings but may attend such meetings.

The general meeting of shareholders is held in Seoul.

## **Register of Shareholders and Record Dates**

Our transfer agent, Kookmin Bank, maintains the register of our shareholders at its office in Seoul, Korea. It registers transfers of our shares on the register of shareholders upon presentation of the share certificates.

The record date for annual dividends is December 31. For the purpose of determining the holders of shares entitled to annual dividends, the register of shareholders may be closed from January 1 to January 31 of each year. Further, the Korean Commercial Code and our Articles of Incorporation permit us at least two weeks public notice to set a record date and/or close the register of shareholders for not more than three months for the purpose of determining the shareholders entitled to certain rights pertaining to our shares. The trading of our shares and the delivery of certificates in respect of them may continue while the register of shareholders is closed.

## **Annual Report**

At least one week prior to the annual general meeting of shareholders, our annual report and audited consolidated financial statements must be made available for inspection at our principal office and at all branch offices. Copies of annual reports, the audited non-consolidated financial statements and any resolutions adopted at the general meeting of shareholders will be available to our shareholders.

Under the Financial Investment Services and Capital Markets Act, we must file with the Financial Services Commission and the Korea Exchange an annual report within 90 days after the end of our fiscal year, a half-year report within 45 days after the end of the first six months of our fiscal year and quarterly reports within 45 days after the end of the first three months and nine months of our fiscal year. However, due to our adoption of IFRS starting in January 1, 2011 pursuant to regulatory requirements for listed companies in Korea, we are required to file half-year and quarterly reports containing interim financial statements and notes thereto on a consolidated basis in addition to non-consolidated basis. The filing deadline for such reports will be temporarily extended to 60 days for fiscal years 2011 and 2012. Therefore, we are required to file our half-year report within 60 days after the end of the first six months of 2011 and 2012 and our quarterly reports within 60 days after the end of the first three months and nine months of 2011 and 2012.



## **Table of Contents**

### **Limitation on Shareholdings**

No person other than the Government, our employee stock ownership association and persons who obtain an approval from the Financial Services Commission may hold for its account more than 3% of our total issued and outstanding shares. In calculating shareholdings for this purpose, shares held by your spouse and your certain relatives or by your certain affiliates (such spouses, relatives and affiliates are together referred to as Affiliated Holders ) are deemed to be held by you. If you hold our shares in violation of this 3% limit, you are not entitled to exercise the voting rights or preemptive rights of our shares in excess of such 3% limit and the Financial Services Commission may order you to take necessary corrective action. In addition, the KEPCO Act currently requires that the Government, directly or through Korea Finance Corporation, own not less than 51% of our capital. For other restrictions on shareholdings, see Item 9. The Offer and Listing.

### **Change of Control**

The KEPCO Act requires that the Government, directly or pursuant to the Korea Finance Corporation Act, through Korea Finance Corporation, own not less than 51.0% of our capital.

### **Disclosure of Share Ownership**

Under the Financial Investment Services and Capital Markets Act, any person whose direct or beneficial ownership of a listed company's shares with voting rights, equity-related debt securities including convertible bonds, bonds with warrants, exchangeable bonds, certificates representing the rights to subscribe for common shares, derivatives-linked securities and depository receipts of the aforementioned securities (collectively referred to as Equity Securities ), together with the Equity Securities directly or beneficially owned by certain related persons or by any person acting in concert with the person, accounts for 5% or more of our total outstanding Equity Securities is required to report the status and purpose (in terms of whether the purpose of shareholding is to participate in the management of the issuer) of the holdings and the material contents of the agreements relating to the Equity Securities and other matters prescribed by the Presidential Decree under the Financial Investment Services and Capital Markets Act to the Financial Services Commission of Korea and the Korea Exchange within five business days after reaching the 5% ownership interest threshold.

In addition, any change (i) in the purpose of the shareholding or in the ownership, (ii) the major terms and conditions of agreements relating to Equity Securities owned (such as trust agreements and collateral agreements) to the extent the number of relevant Equity Securities is 1% or more of the total outstanding Equity Securities, or (iii) the type of ownership (direct ownership or holding) to the extent the number of relevant Equity Securities is 1% or more of the total outstanding Equity Securities, must be reported to the Financial Services Commission of Korea and the Korea Exchange within five business days from the date of such change (or by the 10<sup>th</sup> day of the month following the month in which the change occurs, in the case of a person with no intent to seek management control). Notwithstanding the foregoing, certain professional investors designated by the Financial Services Commission may report such matters to the Financial Services Commission and the Korea Exchange by the tenth day of the month immediately following the end of the quarter in which such 5.0% ownership interest is reached or the change occurs.

When filing a report to the Financial Services Commission and the Korea Exchange in accordance with the reporting requirements described above, a copy of such report must be sent to the relevant listed company. Violation of these reporting requirements may subject a person to sanctions such as prohibition on the exercise of voting rights with respect to the Equity Securities for which the reporting requirement was violated or fines or imprisonment. Furthermore, the Financial Services Commission may order the disposal of the Equity Securities for which the reporting requirement was violated.

A person reporting to the Financial Services Commission and the Korea Exchange that his purpose of holding the Equity Securities is to participate in the management of the listed company is prohibited from

## **Table of Contents**

acquiring additional Equity Securities of the listed company and exercising voting rights during the period commencing from the date on which the event triggering the reporting requirements occurs to the fifth day from the date on which the report is made.

### **Item 10C. Material Contracts**

Not applicable.

### **Item 10D. Exchange Controls**

#### **General**

The Foreign Exchange Transaction Act and the Presidential Decree and regulations under that Act and Decree, or collectively the Foreign Exchange Transaction Laws, regulate investment in Korean securities by non-residents and issuance of securities outside Korea by Korean companies. Non-residents may invest in Korean securities pursuant to the Foreign Exchange Transaction Laws. The Financial Services Commission has also adopted, pursuant to its authority under the Financial Investment Services and Capital Markets Act, regulations that regulate investment by foreigners in Korean securities and issuance of securities outside Korea by Korean companies.

Subject to certain limitations, the Ministry of Strategy and Finance has the authority to take the following actions under the Foreign Exchange Transaction Laws: (i) if the Government deems it necessary on account of war, armed conflict, natural disaster or grave, sudden and significant changes in domestic or foreign economic circumstances or similar events or circumstances, the Ministry of Strategy and Finance may temporarily suspend performance under any or all foreign exchange transactions, in whole or in part, to which the Foreign Exchange Transaction Laws apply (including suspension of payment and receipt of foreign exchange) or impose an obligation to deposit, safe-keep or sell any instruments of payment to the Bank of Korea or certain other governmental agencies or financial institutions, and (ii) if the Government concludes that the international balance of payments and international financial markets are experiencing or are likely to experience significant disruption or that the movement of capital between Korea and other countries are likely to adversely affect the Korean Won, exchange rates or other macroeconomic policies, the Ministry of Strategy and Finance may take action to require any person who intends to effect or effects a capital transaction to deposit all or a portion of the instruments of payment acquired in such transactions with the Bank of Korea or certain other governmental agencies or financial institutions.

#### **Government Review of Issuances of Debt Securities and ADSs and Report for Payments**

In order for us to issue debt securities of any series outside of the Republic, we are required to file a report with our designated foreign exchange bank or the Ministry of Strategy and Finance on the issuance of such debt securities, depending on the issuance amount. The Ministry of Strategy and Finance may at its discretion direct us to take measures as necessary to avoid undue exchange rate fluctuations before it accepts such report. Furthermore, in order for us to make payments of principal of or interest on the debt securities of any series and other amounts as provided in an indenture and such debt securities, we are required to present relevant documents to the designated foreign exchange bank at the time of each actual payment. The purpose of such presentation is to ensure that the actual remittance is consistent with the terms of the transaction reported to our designated foreign exchange bank or the Ministry of Strategy and Finance.

In order for us to offer for purchase shares of our common stock held in treasury in the form of ADSs or issue shares of our common stock represented by the ADSs, we are required to file a prior report of such offer or issuance with our designated foreign exchange bank or the Ministry of Strategy and Finance, depending on the offering amount. The Ministry of Strategy and Finance may at its discretion direct us to take measures as necessary to avoid undue exchange rate fluctuations before it accepts such report. No further Governmental approval is necessary for the initial offering and issuance of the ADSs.

---

## **Table of Contents**

In order for a depositary to acquire any existing shares of our common stock from holders of these shares of common stock (other than from us) for the purpose of issuance of depositary receipts representing these shares of common stock, the depositary would be required to obtain our consent for the number of shares to be deposited in any given proposed deposit which exceeds the difference between (1) the aggregate number of shares deposited by us or with our consent for the issuance of ADSs (including deposits in connection with the initial and all subsequent offerings of ADSs and stock dividends or other distributions related to these ADSs) and (2) the number of shares on deposit with the depositary at the time of such proposed deposit. We may not grant this consent for the deposit of shares of our common stock in the future, if our consent is required. Therefore, a holder of ADSs who surrenders ADSs and withdraws shares of our common stock may not be permitted subsequently to deposit such shares and obtain ADSs.

In addition, we are also required to notify the Ministry of Strategy and Finance upon receipt of the full proceeds from the offering of ADSs. No additional Governmental approval is necessary for the offering and issuance of ADSs.

### **Reporting Requirements for Holders of Substantial Interests**

Under the Financial Investment Services and Capital Markets Act, any person whose direct beneficial ownership of a listed company's Equity Securities, together with the Equity Securities beneficially owned by certain related persons or by any person acting in concert with such person, accounts for 5% or more of our total outstanding Equity Securities is required to report the status and purpose (namely, whether the purposes of the share ownership is to participate in the management of the issuer) of the holdings and the material contents of the agreements relating to the Equity Securities and other matters prescribed by the Presidential Decree under the Financial Investment Services and Capital Markets Act to the Financial Services Commission and the Korea Exchange within five business days after reaching the 5% ownership interest and any change in ownership interest subsequent to the report which equals or exceeds 1.0% of the total outstanding Equity Securities is required to be reported to the Financial Services Commission and the Korea Exchange within five business days from the date of the change.

In addition, any change (i) in the purpose of the shareholding or in the ownership, (ii) the major terms and conditions of agreements relating to Equity Securities owned (such as trust agreements and collateral agreements) to the extent the number of relevant Equity Securities is 1% or more of the total outstanding Equity Securities, or (iii) the type of ownership (direct ownership or holding) to the extent the number of relevant Equity Securities is 1% or more of the total outstanding Equity Securities, must be reported to the Financial Services Commission of Korea and the Korea Exchange within five business days from the date of such change (or by the 10<sup>th</sup> day of the month following the month in which the change occurs, in the case of a person with no intent to seek management control). Notwithstanding the foregoing, certain professional investors designated by the Financial Services Commission may report such matters to the Financial Services Commission and the Korea Exchange by the tenth day of the month immediately following the end of the quarter in which such 5.0% ownership interest is reached or the change occurs.

When filing a report to the Financial Services Commission and the Korea Exchange in accordance with the reporting requirements described above, a copy of such report must be sent to the relevant listed company. Violation of these reporting requirements may subject a person to sanctions such as prohibition on the exercise of voting rights with respect to the Equity Securities for which the reporting requirement was violated or fines or imprisonment. Furthermore, the Financial Services Commission may order the disposal of the Equity Securities for which the reporting requirement was violated.

A person reporting to the Financial Services Commission and the Korea Exchange that his purpose of holding the Equity Securities is to participate in the management of the listed company is prohibited from acquiring additional Equity Securities of the listed company and exercising voting rights during the period commencing from the date on which the event triggering the reporting requirements occurs to the fifth day from the date on which the report is made.

---

## **Table of Contents**

In addition to the reporting requirements described above, any person whose direct or beneficial ownership of our voting stock and/or depository receipts for our voting stock accounts for 10.0% or more of the total issued and outstanding voting stock, whom we refer to as a major shareholder, must file a report to the Securities and Futures Commission and to the Korea Exchange within five business days after the date on which the person reached such shareholding limit. In addition, such person must file a report to the Securities and Futures Commission and to the Korea Exchange regarding any subsequent change in his/her shareholding. Such report on subsequent change in shareholding must be filed within five business days of the occurrence of any such change. Violation of these reporting requirements may subject a person to criminal sanctions such as fines and imprisonment.

### **Restrictions Applicable to ADSs**

No Governmental approval is necessary for the sale and purchase of ADSs in the secondary market outside Korea or for the withdrawal of shares of our common stock underlying ADSs and the delivery inside Korea of the withdrawn shares. However, a foreigner who intends to acquire shares must obtain an Investment Registration Card from the Financial Supervisory Service as described below. The acquisition of shares by a foreigner must be reported by the foreigner or his standing proxy in Korea immediately to the Governor of the Financial Supervisory Service.

### **Special Reporting Requirement for Companies Whose Securities Are Listed on Foreign Exchanges**

Under the regulations of the Financial Services Commission amended on December 24, 2009, (i) if a company listed on the Korea Exchange has submitted a public disclosure of material matters to a foreign financial investment supervisory authority pursuant to the laws of the foreign jurisdiction, then it must submit a copy of the public disclosure and a Korean translation thereof to the Financial Services Commission of Korea and the Korea Exchange, and (ii) if a company listed on the Korea Exchange is approved for listing on a foreign stock market or determined to be de-listed from the foreign stock market or actually listed on, or de-listed from, a foreign stock market, then it must submit a copy of any document, which it submitted to or received from the relevant foreign government, foreign financial investment supervisory authority or the foreign stock market, and a Korean translation thereof to the Financial Services Commission of Korea and the Korea Exchange.

Persons who have acquired shares of our common stock as a result of the withdrawal of shares of common stock underlying ADSs may exercise their preemptive rights for new shares, participate in free distributions and receive dividends on shares of our common stock without any further governmental approval.

### **Restrictions Applicable to Common Stock**

Under the Foreign Exchange Transaction Laws and Financial Services Commission regulations promulgated thereunder (together, the Investment Rules ), foreigners are permitted to invest, subject to certain exceptions and procedural requirements, in all shares of Korean companies unless prohibited by specific laws. Foreign investors may trade shares listed on the Korea Exchange only through the Korea Exchange except for certain limited circumstances. These circumstances include, among others, (1) odd-lot trading of shares, (2) acquisition of shares by a foreign company as a result of a merger, (3) acquisition or disposal of shares in connection with a tender offer, (4) acquisition of shares by exercise of warrant, conversion right under convertible bonds, exchange right under exchangeable bonds or withdrawal right under depository receipts issued outside of Korea by a Korean company, such shares being Converted Shares, (5) acquisition of shares through exercise of rights under securities issued outside of Korea, (6) acquisition of shares as a result of inheritance, donation, bequest or exercise of shareholders' rights (including preemptive rights or rights to participate in free distributions and receive dividends), (7) over-the-counter transactions between foreigners of a class of shares for which a ceiling on aggregate acquisition by foreigners (as explained below) exists and has been reached or exceeded, (8) acquisition of shares by direct investment under the Foreign Investment Promotion Law, (9) acquisition and disposal of shares on an overseas stock exchange market, if such shares are simultaneously listed on the KRX KOSPI Market or the KRX KOSDAQ Market of the Korea Exchange and such overseas stock exchange, and

**Table of Contents**

(10) arm s length transactions between foreigners in the event all such foreigners belong to an investment group managed by the same person. For over-the-counter transactions of shares listed on the Korea Exchange outside the Korea Exchange between foreigners of a class of shares for which a ceiling on aggregate acquisition by foreigners exists and has been reached or exceeded, a financial investment company with a brokerage license in Korea must act as an intermediary. Odd-lot trading of shares listed on the Korea Exchange outside the Korea Exchange must involve a financial investment company with a dealing license in Korea as the other party. Foreign investors are prohibited from engaging in margin transactions with respect to shares subject to a ceiling on acquisition by foreigners.

The Investment Rules require a foreign investor who wishes to invest in or dispose of shares on the Korea Exchange (including Converted Shares) to register his/her identity with the Financial Supervisory Service prior to making any such investment or disposal unless he/she had previously registered. However, such registration requirement does not apply to foreign investors who acquire Converted Shares with the intention of selling them within three months from the date they were acquired. Upon registration, the Financial Supervisory Service will issue to the foreign investor an Investment Registration Card which must be presented each time the foreign investor opens a brokerage account with a financial investment company or financial institution in Korea. Foreigners eligible to obtain an Investment Registration Card include any foreign nationals who are individuals (with residence abroad for six months or more), foreign governments, foreign municipal authorities, foreign public institutions, international financial institutions or similar international organizations, corporations incorporated under foreign laws and any person in any additional category designated by the Decree of the Minister of Strategy and Finance. All Korean branches of a foreign corporation as a group are treated as a separate foreigner from the head office of the foreign corporation. However, a foreign branch of a Korean securities company, a foreign corporation or a depository issuing depository receipts may obtain one or more Investment Registration Cards in its name in certain circumstances as described in the relevant regulations.

Upon a foreign investor s purchase of shares through the Korea Exchange, no separate report by the investor is required because the Investment Registration Card system is designed to control and oversee foreign investment through a computer system. However, a foreign investor s acquisition or sale of shares outside the Korea Exchange (as discussed above) must be reported by the foreign investor or his standing proxy to the Governor of the Financial Supervisory Service at the time of each acquisition or sale. However, a foreign investor must ensure that any acquisition or sale by it of shares outside the Korea Exchange in the case of trades in connection with a tender offer, odd-lot trading of shares or trades of a class of shares for which the aggregate foreign ownership limit has been reached or exceeded, is reported to the Governor of the Financial Supervisory Service by the Korea Securities Depository, financial investment companies with a dealing or brokerage license or securities finance companies engaged to facilitate such transactions. In the event a foreign investor desires to acquire or sell shares outside the Korea Exchange and the circumstances in connection with such sale or acquisition do not fall within the exceptions made for certain limited circumstances described above, then the foreign investor must obtain the prior approval of the Governor. In addition, in the event a foreign investor acquires or sells shares outside the Korea Exchange, a prior report to the Bank of Korea may also be required in certain circumstances. A foreign investor may appoint one or more standing proxies from among the Korea Securities Depository, foreign exchange banks (including domestic branches of foreign banks), financial investment companies with a dealing, brokerage or collective investment license and certain eligible foreign custodians which will exercise shareholders rights or perform any matters related to the foregoing activities if the foreign investor does not perform these activities himself. However, a foreign investor may be exempted from complying with these standing proxy rules with the approval of the Governor of the Financial Supervisory Service in cases deemed inevitable by reason of conflict between the laws of Korea and those of the home country of the foreign investor.

Certificates evidencing shares of Korean companies must be kept in custody with an eligible custodian in Korea, the Korea Securities Depository, foreign exchange banks (including domestic branches of foreign banks), financial investment companies with a dealing, brokerage or collective investment license and certain eligible foreign custodians are eligible to be a custodian of shares for a non-resident or foreign investor. A foreign

**Table of Contents**

investor must ensure that his custodian deposits his shares with the Korea Securities Depository. Generally, a foreign investor may not permit any person, other than his/her standing proxy, to exercise rights relating to his shares or perform any tasks related thereto on his behalf. However, a foreign investor may be exempted from complying with this deposit requirement with the approval of the Governor of the Financial Supervisory Service in circumstances where compliance is made impracticable, including cases where such compliance would contravene the laws of the home country of the foreign investor.

Under the Investment Rules, with certain exceptions, a foreign investor may acquire shares of a Korean company without being subject to any single or aggregate foreign investment ceiling. However, certain designated public corporations are subject to a 40.0% ceiling on acquisitions of shares by foreigners in the aggregate and a ceiling on acquisitions of shares by a single foreign investor provided in the Articles of Incorporation of such corporations. Of the Korean companies listed on the Korea Exchange, we are so designated. The Financial Services Commission may increase or decrease these percentages if it deems it necessary for the public interest, protection of investors or industrial policy. Generally, the ownership of Converted Shares constitutes foreign ownership for purposes of such aggregate foreign ownership limit. However, the acquisition of Converted Shares is one of the exceptions under which foreign investors may acquire shares of designated corporations in excess of the 40.0% ceiling.

In addition to the aggregate foreign investment ceiling set by the Financial Services Commission under authority of the Financial Investment Services and Capital Markets Act, our Articles of Incorporation set a 3% ceiling on acquisition by a single investor (whether domestic or foreign) of the shares of our common stock. Any person (with certain exceptions) who holds more than 3% of our issued and outstanding shares cannot exercise voting rights with respect to our shares in excess of this 3% limit.

The ceiling on aggregate investment by foreigners applicable to us may be exceeded in certain limited circumstances, including as a result of acquisition of:

shares by a depository issuing depository receipts representing such shares (whether newly issued shares or outstanding shares);

Converted Shares;

shares from the exercise of shareholders' rights; or

shares by gift, inheritance or bequest.

A foreigner who has acquired shares in excess of any ceiling described above may not exercise his voting rights with respect to the shares exceeding such limit and the Financial Services Commission may take necessary corrective action against him.

Under the Foreign Exchange Transaction Laws, a foreign investor who intends to acquire shares must designate a foreign exchange bank at which he must open a foreign currency account and a Won account exclusively for stock investments. No approval is required for remittance into Korea and deposit of foreign currency funds in the foreign currency account. Foreign currency funds may be transferred from the foreign currency account at the time required to place a deposit for, or settle the purchase price of, a stock purchase transaction to a Won account opened at a securities company. Funds in the foreign currency account may be remitted abroad without any governmental approval.

Dividends on shares of our common stock are paid in Won. No governmental approval is required for foreign investors to receive dividends on, or the Won proceeds of the sale of, any shares to be paid, received and retained in Korea. Dividends paid on, and the Won proceeds of the sale of, any shares held by a non-resident of Korea must be deposited either in a Won account with the investor's securities company or the investor's Won account. Funds in the investor's Won account may be transferred to his foreign currency account or withdrawn for local living expenses, provided that any withdrawal of local living expenses in excess of a certain amount is

---

**Table of Contents**

reported to the tax authorities by the foreign exchange bank at which Won account is maintained. Funds in the investor's Won account may also be used for future investment in shares or for payment of the subscription price of new shares obtained through the exercise of preemptive rights.

Financial investment companies with a securities dealing, brokerage or collective investment license are allowed to open foreign currency accounts with foreign exchange banks exclusively for accommodating foreign investors' stock investments in Korea. Through these accounts, these securities companies and asset management companies may enter into foreign exchange transactions on a limited basis, such as conversion of foreign currency funds and Won funds, either as a counterparty to or on behalf of foreign investors without the foreign investors having to open their own accounts with foreign exchange banks.

**Item 10E. Taxation**

**Korean Taxes**

The following summary describes the material Korean tax consequences of ownership of the Registered Debt Securities and ADSs. Persons considering the purchase of the Registered Debt Securities or ADSs should consult their own tax advisors with regard to the application of the Korean income tax laws to their particular situations as well as any tax consequences arising under the laws of any other taxing jurisdiction. Reference is also made to a tax treaty between the Republic and the United States entitled Convention Between the Government of The Republic of Korea and the Government of the United States of America for the Avoidance of Double Taxation and the Prevention of Fiscal Evasion with respect to Taxes on Income and the Encouragement of International Trade and Investment, signed on June 4, 1976 and entered into force on October 20, 1979.

The following summary of Korean tax considerations applies to you so long as you are not:

a resident of Korea;

a corporation organized under Korean law or having its head office, principal place of business or place of effective management in Korea; or

engaged in a trade or business in Korea through a permanent establishment or a fixed base to which the relevant income is attributable or with which the relevant income is effectively connected.

***Registered Debt Securities***

***Taxation of Interest***

Pursuant to the Special Tax Treatment Control Law ( STTCL ), when we make payments of interest to you on the Registered Debt Securities, no amount will be withheld from such payments for, or on account of, any income taxes of any kind imposed, levied, withheld or assessed by Korea or any political subdivision or taxing authority thereof or therein.

If the tax exemption under the STTCL referred to above were to cease to be in effect, the rate of income tax or corporation tax applicable to the interest on the Registered Debt Securities would be 14% of income for a non-resident without a permanent establishment in Korea. In addition, a tax surcharge called a local income surtax would be imposed at the rate of 10.0% of the income tax or corporation tax (which would increase the total tax rate to 15.4%), unless reduction is available under an applicable income tax treaty. If you are a qualified resident in a country that has entered into a tax treaty with Korea, you may qualify for an exemption or a reduced rate of Korean withholding tax. See the discussion under Shares or ADSs Tax Treaties below for an additional explanation on treaty benefits.

In order to obtain the benefits of an exemption or a reduced withholding tax rate under a tax treaty, you must submit to us, prior to the interest payment date, such evidence of tax residence as may be required by the Korean tax authorities in order to establish your entitlement to the benefits of the applicable tax treaty.





**Table of Contents***Taxation of Capital Gains*

Korean tax laws currently exclude from Korean taxation gains made by a non-resident without permanent establishment in Korea from the sale of a Registered Debt Security to another non-resident (except where a non-resident sells Registered Debt Securities to another non-resident who has permanent establishments in Korea, if any). In addition, capital gains realized from the transfer of Registered Debt Securities outside Korea by non-residents with or without permanent establishments in Korea are currently exempt from taxation by virtue of the STTCL, provided that the issuance of such Registered Debt Securities is deemed to be an overseas issuance under the STTCL. If you sell or otherwise dispose of a Registered Debt Security through other ways than those mentioned above, any gain realized on the transaction will be taxable at ordinary Korean withholding tax rates (which is the lesser of 22.0% (including local income surtax) of the net gain or 11.0% (including local income surtax) of the gross sale proceeds, subject to the production of satisfactory evidence of the acquisition cost of such Registered Debt Securities and net of certain direct transaction costs attributable to the disposal of such Registered Debt Securities), unless an exemption is available under an applicable income tax treaty. See the discussion under *Shares or ADSs Tax Treaties* below for an additional explanation on treaty benefits.

*Inheritance Tax and Gift Tax*

If you die while you are the holder of Registered Debt Securities, the subsequent transfer of the Registered Debt Securities by way of succession will be subject to Korean inheritance tax. Similarly, if you transfer Registered Debt Securities as a gift, the donee will be subject to Korean gift tax and you may be required to pay the gift tax if the donee fails to do so.

At present, Korea has not entered into any tax treaty relating to inheritance or gift taxes.

*Shares or ADSs**Dividends on the Shares of Common Stock or ADSs*

We will deduct Korean withholding tax from dividends (whether in cash or in shares) paid to you at a rate of 22% (inclusive of local income surtax). If you are a qualified resident in a country that has entered into a tax treaty with Korea, you may qualify for a reduced rate of Korean withholding tax. See the discussion under *Tax Treaties* below for an additional explanation on treaty benefits.

In order to obtain the benefits of a reduced withholding tax rate under a tax treaty, you must submit to us, prior to the dividend payment date, such evidence of tax residence as may be required by the Korean tax authorities in order to establish your entitlement to the benefits of the applicable tax treaty. Evidence of tax residence may be submitted to us through the ADS depository. If we distribute to you free shares representing a transfer of certain capital reserves or asset revaluation reserves into paid-in capital, such distribution may be subject to Korean withholding tax.

*Taxation of Capital Gains*

As a general rule, capital gains earned by non-residents upon the transfer of the common shares or ADSs would be subject to Korean withholding tax at a rate equal to the lesser of (i) 11.0% of the gross proceeds realized or (ii) 22.0% of the net realized gain (subject to the production of satisfactory evidence of the acquisition costs and certain direct transaction costs arising out of the transfer of such common shares or ADSs), unless such non-resident is exempt from Korean income taxation under an applicable Korean tax treaty into which Korea has entered with the non-resident's country of tax residence. Please see the discussion under *Tax Treaties* below for an additional explanation on treaty benefits. Even if you do not qualify for any exemption under a tax treaty, you will not be subject to the foregoing withholding tax on capital gains if you qualify for the relevant Korean domestic tax law exemptions discussed in the following paragraphs.

---

**Table of Contents**

You will not be subject to Korean income taxation on capital gains realized upon the transfer of our common stocks or ADSs through the Korea Exchange if you (i) have no permanent establishment in Korea and (ii) did not own or have not owned (together with any shares owned by any entity which you have a certain special relationship with and possibly including the shares represented by the ADSs) 25.0% or more of our total issued and outstanding shares at any time during the calendar year in which the sale occurs and during the five calendar years prior to the calendar year in which the sale occurs.

It should be noted that (i) capital gains earned by you (regardless of whether you have a permanent establishment in Korea) from the transfer of ADSs outside Korea will be exempted from Korean income taxation provided that ADSs are deemed to have been issued overseas, but (ii) if and when an owner of the underlying shares of stock transfers ADSs after conversion of the underlying shares into ADSs, the exemption described in (i) is not applicable.

If you are subject to tax on capital gains with respect to the sale of ADSs, or of shares of common stock which you acquired as a result of a withdrawal, the purchaser or, in the case of the sale of shares of common stock on the Korea Exchange or through an investment dealer or investment broker under the Financial Investment Services and Capital Markets Act, an investment dealer or investment broker is required to withhold Korean tax from the sales price in an amount equal to 11.0% (including resident surtax) of the gross realization proceeds and to make payment of these amounts to the Korean tax authority, unless you establish your entitlement to an exemption under an applicable tax treaty or domestic tax law or produce satisfactory evidence of your acquisition cost and transaction costs for the shares of common stock or the ADSs.

However, if you transfer the ADSs following an exchange of the underlying shares of stock owned by you for ADSs, you are obligated to file a corporate income tax return and pay tax on gain realized from such transfer unless a purchaser or an investment dealer or investment broker, as the case may be, withholds and remits the tax on capital gains derived from transfer of ADSs, as discussed above. Further, if you transfer the shares of common stock outside of Korea (excluding a transfer on a foreign exchange) to non-residents or foreign companies without having permanent establishments in Korea, you are obligated to file an income tax return and pay income tax on capital gain realized from such transfer unless exempt under an applicable tax treaty or domestic law. If a purchaser or an investment dealer or investment broker, as the case may be, withhold and remits the tax on capital gains derived from transfer of shares of common stock or ADSs, your obligation to file an income tax return and pay income tax will be exempt.

To obtain the benefit of an exemption from tax pursuant to a tax treaty, you must submit to the purchaser or the investment dealer or the investment broker, or through the ADS depository, as the case may be, prior to or at the time of payment, such evidence of your tax residence as the Korean tax authorities may require in support of your claim for treaty benefits. Please see the discussion under **Tax Treaties** below for an additional explanation on claiming treaty benefits.

*Tax Treaties*

Korea has entered into a number of income tax treaties with other countries (including the United States), which would reduce or exempt Korean withholding tax on dividends on, and capital gains on transfer of, shares of our common stock or ADSs. For example, under the Korea-United States income tax treaty, reduced rates of Korean withholding tax of 16.5% or 11.0% (respectively, including local income surtax, depending on your shareholding ratio) on dividends and an exemption from Korean withholding tax on capital gains are available to residents of the United States that are beneficial owners of the relevant dividend income or capital gains. However, under Article 17 (Investment of Holding Companies) of the Korea-United States income tax treaty, such reduced rates and exemption do not apply if (i) you are a United States corporation, (ii) by reason of any special measures, the tax imposed on you by the United States with respect to such dividends or capital gains is substantially less than the tax generally imposed by the United States on corporate profits, and (iii) 25.0% or more of your capital is held of record or is otherwise determined, after consultation between competent

## **Table of Contents**

authorities of the United States and Korea, to be owned directly or indirectly by one or more persons who are not individual residents of the United States. Also, under Article 16 (Capital Gains) of the Korea-United States income tax treaty, the exemption on capital gains does not apply if you are an individual, and (a) you maintain a fixed base in Korea for a period or periods aggregating 183 days or more during the taxable year and your ADSs or shares of common stock giving rise to capital gains are effectively connected with such fixed base or (b) you are present in Korea for a period or periods of 183 days or more during the taxable year.

You should inquire for yourself whether you are entitled to the benefit of an income tax treaty with Korea. It is the responsibility of the party claiming the benefits of an income tax treaty in respect of dividend payments or capital gains to submit to us, the purchaser or the investment dealer or the investment broker, as applicable, a certificate as to his tax residence. In the absence of sufficient proof, we, the purchaser or the investment dealer or the investment broker, as applicable, must withhold tax at the normal rates. Further, in order for you to obtain the benefit of a tax exemption on certain Korean source income (e.g., interest, dividends and capital gains) under an applicable tax treaty, Korean tax law requires you (or your agent) to submit the application for tax exemption along with a certificate of your tax residency issued by a competent authority of your country of tax residence, subject to certain exceptions. Such application should be submitted to the relevant district tax office by the ninth day of the month following the date of the first payment of such income.

### *Inheritance Tax and Gift Tax*

If you die while holding an ADS or donate an ADS, it is unclear whether, for Korean inheritance and gift tax purposes, you will be treated as the owner of the shares of common stock underlying the ADSs. If the tax authority interprets depository receipts as the underlying share certificates, you may be treated as the owner of the shares of common stock and your heir or the donee (or in certain circumstances, you as the donor) will be subject to Korean inheritance or gift tax presently at the rate of 10.0% to 50.0%, depending on the value of the ADSs or shares of common stock.

If you die while holding a share of common stock or donate a share of common stock, your heir or donee (or in certain circumstances, you as the donor) will be subject to Korean inheritance or gift tax at the same rate as indicated above.

At present, Korea has not entered into any tax treaty relating to inheritance or gift taxes.

### *Securities Transaction Tax*

If you transfer shares of common stock on the Stock Market of the Korea Exchange, you will be subject to securities transaction tax at the rate of 0.15% and an agriculture and fishery special surtax at the rate of 0.15% of the sale price of the shares of common stock. If your transfer of the shares of common stock is not made on the Stock Market of the Korea Exchange, subject to certain exceptions you will be subject to securities transaction tax at the rate of 0.5% and will not be subject to an agriculture and fishery special surtax.

Under the Securities Transaction Tax Law, capital gains from a transfer of depository receipts listed on the New York Stock Exchange, NASDAQ National Market or other qualified foreign exchanges will be exempt from the securities transaction tax.

In principle, the securities transaction tax, if applicable, must be paid by the transferor of the shares or rights. When the transfer is effected through the Korea Securities Depository, the Korea Securities Depository is generally required to withhold and pay the tax to the tax authorities. When such transfer is made through an investment dealer or investment broker under the Financial Investment Services and Capital Markets Act only, such investment dealer or investment broker is required to withhold and pay the tax. Where the transfer is effected by a non-resident without a permanent establishment in Korea, other than through the Korea Securities Depository or an investment dealer or investment broker, the transferee is required to withhold the securities transaction tax for payment to the Korean tax authority.

---

**Table of Contents**

**U.S. Federal Income and Estate Tax Considerations for U.S. Persons**

The following is a summary of certain U.S. Federal income and estate tax consequences for beneficial owners of the Registered Debt Securities, common stock and ADSs that are U.S. Persons. For purposes of this summary, you are a U.S. Person if you are any of the following for U.S. Federal income tax purposes:

an individual citizen or resident of the United States;

a corporation, or other entity treated as a corporation for U.S. Federal income tax purposes, created or organized in or under the laws of the United States, any state thereof or the District of Columbia;

an estate the income of which is subject to U.S. Federal income taxation regardless of its source; or

a trust if (1) it is subject to the primary supervision of a court within the United States and one or more United States persons have the authority to control all substantial decisions of the trust or (2) it has a valid election in effect under applicable United States Treasury regulations to be treated as a United States person.

This summary is based on current law, which is subject to change (perhaps retroactively), is for general purposes only and should not be considered tax advice. This summary does not represent a detailed description of the federal income and estate tax consequences to you in light of your particular circumstances. The discussion set forth below is applicable to you if (i) you are a resident of the United States for purposes of the current income tax treaty between the United States and Korea (the Treaty), (ii) your Registered Debt Securities, common stock or ADSs are not, for purposes of the Treaty, effectively connected with a permanent establishment in Korea and (iii) you otherwise qualify for the full benefits of the Treaty. Except where noted, it deals only with Registered Debt Securities, common stock or ADSs held as capital assets, and it does not represent a detailed description of the U.S. Federal income and estate tax consequences applicable to you if you are subject to special treatment under the U.S. Federal income tax laws (including if you are a dealer in securities or currencies, a financial institution, a regulated investment company, a real estate investment trust, an insurance company, a tax exempt organization, a person holding the Registered Debt Securities, common stock or ADSs as part of a hedging, integrated or conversion transaction, constructive sale or straddle, a person owning 10.0% or more of our voting stock, a trader in securities that elects to use a mark-to-market method of accounting for your securities holdings, a person liable for the alternative minimum tax, an investor in a pass-through entity, or a U.S. Person whose functional currency is not the U.S. dollar). We cannot assure you that a change in law will not alter significantly the tax considerations that we describe in this summary.

If a partnership holds the Registered Debt Securities, common stock or ADSs, the tax treatment of a partner will generally depend upon the status of the partner and the activities of the partnership. If you are a partner of a partnership holding our Registered Debt Securities, common stock, or ADSs, you should consult your tax advisor.

Because of the 100 year maturity of the 7.95% Zero-to-Full Debentures, due April 1, 2096 (the ZTF Debentures), it is not certain whether the ZTF Debentures will be treated as debt for U.S. Federal income tax purposes. The discussion below assumes that the ZTF Debentures (as well as the other Registered Debt Securities) will be treated as debt, except that a summary of the consequences to you if the ZTF Debentures were not treated as debt is provided under Tax Consequences with Respect to Registered Debt Securities Generally ZTF Debentures Treated as Equity below.

The discussion of the tax consequences of ownership of common stock and ADSs below, is based, in part, upon representations made by the Depositary to us and assumes that the Deposit Agreement, and all other related agreements, will be performed in accordance with their terms.

**You should consult your own tax advisor concerning the particular U.S. Federal income and estate tax consequences to you of the ownership of the Registered Debt Securities, common stock and ADSs, as well as the consequences to you arising under the laws of any other taxing jurisdiction.**

**Table of Contents*****Tax Consequences with Respect to Registered Debt Securities Generally******Payments***

Except as provided below with regard to original issue discount on the ZTF Debentures, interest payments on a Registered Debt Security will generally be taxable to you as ordinary income at the time it is paid or accrued in accordance with your method of accounting for tax purposes. Principal payments on an amortizing Registered Debt Security generally will constitute a tax-free return of capital to you.

Although interest payments to you are currently exempt from Korean taxation, if the Korean law providing for the exemption is repealed, then, in addition to interest payments on the Registered Debt Securities and original issue discount (as defined below) on the ZTF Debentures, you will be required to include in income any additional amounts and any Korean tax withheld from interest payments notwithstanding that you in fact did not receive such withheld tax. You may be entitled to deduct or credit such Korean tax (up to the Treaty rate), subject to applicable limitations in the Internal Revenue Code of 1986, as amended (the Code). Your election to deduct or credit foreign taxes will apply to all of your foreign taxes for a particular taxable year. Interest income on a Registered Debt Security (including additional amounts and any Korean taxes withheld in respect thereof) and original issue discount on a ZTF Debenture generally will constitute foreign source income and generally will be considered passive category income for purposes of computing the foreign tax credit. You may be denied a foreign tax credit for Korean taxes imposed with respect to the Registered Debt Securities where you do not meet a minimum holding period requirement during which you are not protected from risk of loss. The rules governing the foreign tax credit are complex. Investors are urged to consult their tax advisors regarding the availability of the foreign tax credit under their particular circumstances.

***Original Issue Discount***

The ZTF Debentures were issued with original issue discount, or OID, for U.S. Federal income tax purposes equal to the difference between (i) the sum of all scheduled amounts payable on the ZTF Debentures (including the interest payable on such ZTF Debentures) and (ii) the issue price of the ZTF Debentures. The issue price of each ZTF Debenture is the first price at which a substantial amount of the ZTF Debentures was sold to the public (other than to an underwriter, broker, placement agent or wholesaler). If you hold ZTF Debentures, then you generally must include OID in gross income in advance of the receipt of cash attributable to that income, regardless of your method of accounting. However, you generally will not be required to include separately in income cash payments received on the ZTF Debentures, even if denominated as interest.

The amount of OID includible in income by the initial holder of a ZTF Debenture is the sum of the daily portions of OID with respect to the ZTF Debenture for each day during the taxable year or portion of the taxable year in which such holder held such ZTF Debenture, or accrued OID (for a discussion relevant to subsequent purchasers, see Market Discount and Bond Premium, below). The daily portion is determined by allocating to each day in any accrual period a pro rata portion of the OID allocable to that accrual period. The accrual period for a ZTF Debenture may be of any length and may vary in length over the term of the ZTF Debenture, provided that each accrual period is no longer than one year and each scheduled payment of principal or interest occurs on the first day or the final day of an accrual period. The amount of OID allocable to any accrual period other than the final accrual period is an amount equal to the product of the ZTF Debenture's adjusted issue price at the beginning of such accrual period and its yield to maturity (determined on the basis of compounding at the close of each accrual period and properly adjusted for the length of the accrual period). OID allocable to a final accrual period is the difference between the amount payable at maturity and the adjusted issue price at the beginning of the final accrual period. The adjusted issue price of a ZTF Debenture at the beginning of any accrual period is equal to its issue price increased by the accrued OID for each prior accrual period (for subsequent purchasers, determined without regard to the amortization of any acquisition or bond premium, as described below) and reduced by any payments previously made on such ZTF Debenture. Under these rules, you will have to include in income increasingly greater amounts of OID in successive accrual periods. We are required to provide information returns stating the amount of OID accrued on ZTF Debentures held of record by persons other than corporations and other exempt holders.

## **Table of Contents**

As discussed above, although interest payments to you are currently exempt from Korean taxation, if the Korean law providing for the exemption is repealed, then Korean withholding tax may be imposed at times that differ from the times at which you are required to include interest or OID in income for U.S. Federal income tax purposes and this disparity may limit the amount of foreign tax credit available.

### *Market Discount*

If you purchase a Registered Debt Security other than a ZTF Debenture for an amount that is less than its stated redemption price at maturity, or, in the case of a ZTF Debenture, its adjusted issue price, the amount of the difference will be treated as market discount for U.S. Federal income tax purposes, unless that difference is less than a specified de minimis amount. Under the market discount rules, you will be required to treat any payment, other than qualified stated interest (as defined in the Code), on, or any gain on the sale, exchange, retirement or other disposition of, a Registered Debt Security as ordinary income to the extent of the market discount that you have not previously included in income and are treated as having accrued on the Registered Debt Security at the time of its payment or disposition. In addition, you may be required to defer, until the maturity of the Registered Debt Security or its earlier disposition in a taxable transaction, the deduction of all or a portion of the interest expense on any indebtedness attributable to the Registered Debt Security.

Any market discount will be considered to accrue ratably during the period from the date of acquisition to the maturity date of the Registered Debt Security, unless you elect to accrue on a constant interest method. Your election to accrue market discount on a constant interest method is to be made for the taxable year in which you acquired the Registered Debt Security, applies only to that Registered Debt Security and cannot be revoked. You may elect to include market discount in income currently as it accrues, on either a ratable or constant interest method, in which case the rule described above regarding deferral of interest deductions will not apply. Your election to include market discount in income currently, once made, applies to all market discount obligations acquired by you on or after the first taxable year to which your election applies and may not be revoked without the consent of the Internal Revenue Service ( IRS ). You should consult your own tax advisor before making this election.

### *Bond Premium*

If you purchase a ZTF Debenture for an amount that is greater than its adjusted issue price but equal to or less than the sum of all amounts payable on the ZTF Debenture after the purchase date, you will be considered to have purchased that ZTF Debenture at an acquisition premium. Under the acquisition premium rules, the amount of OID that you must include in gross income with respect to a ZTF Debenture for any taxable year will be reduced by the portion of the acquisition premium properly allocable to that year.

If you purchase a Registered Debt Security for an amount in excess of the sum of all amounts payable on the Registered Debt Security after the purchase date other than qualified stated interest, you will be considered to have purchased the Registered Debt Security at a premium and, if such Registered Debt Security is a ZTF Debenture, you will not be required to include any OID in income. You generally may elect to amortize the premium over the remaining term of the Registered Debt Security on a constant yield method as an offset to interest when includible in income under your regular accounting method. In the case of instruments that provide for alternative payment schedules, bond premium is calculated by assuming that (a) you will exercise or not exercise options in a manner that maximizes your yield, and (b) we will exercise or not exercise options in a manner that minimizes your yield (except that we will be assumed to exercise call options in a manner that maximizes your yield). If you do not elect to amortize bond premium, that premium will decrease the gain or increase the loss you would otherwise recognize on disposition of a Registered Debt Security. Your election to amortize premium on a constant yield method will also apply to all debt obligations held or subsequently acquired by you on or after the first day of the first taxable year to which the election applies. You may not revoke the election without the consent of the IRS. You should consult your own tax advisor before making this election.

**Table of Contents**

*Sale, Exchange and Retirement of Registered Debt Securities*

When you sell, exchange or retire a Registered Debt Security, you will recognize gain or loss equal to the difference between the amount you receive (not including an amount equal to any accrued qualified stated interest, which will be taxable as ordinary income to the extent not previously included in income) and your adjusted tax basis in the Registered Debt Security. Your tax basis in a Registered Debt Security other than a ZTF Debenture will generally be your cost of obtaining the Registered Debt Security increased by any market discount included in income and reduced by payments of principal you receive and any bond premium that you elect to amortize. Your adjusted tax basis in a ZTF Debenture will, in general, be your cost therefor, increased by any market discount and OID previously included in income and reduced by any cash payments on the ZTF Debentures and any bond premium that you elect to amortize. Your gain or loss realized on selling, exchanging or retiring a Registered Debt Security will generally be treated as United States source income. Consequently, you may not be able to use the foreign tax credit arising from any Korean tax imposed on the disposition of Registered Debt Securities unless such credit can be applied (subject to applicable limitations) against tax due on other income treated as derived from foreign sources. Except as described above with respect to market discount, your gain or loss will be capital gain or loss and will be long-term capital gain or loss if, at the time of the sale, exchange or retirement of a Registered Debt Security, you have held the Registered Debt Security for more than one year. If you are an individual and the Registered Debt Security being sold, exchanged or retired is a capital asset that you held for more than one year, you may be eligible for reduced rates of taxation on any capital gain recognized. Your ability to deduct capital losses is subject to limitations.

*ZTF Debentures Treated as Equity*

If the ZTF Debentures were treated as equity for U.S. Federal income tax purposes, amounts deemed paid with respect to the ZTF Debentures would be deemed dividends for U.S. Federal income tax purposes to the extent paid out of our current or accumulated earnings and profits (as determined for U.S. Federal income tax purposes).

You would include the amounts deemed paid by us on the ZTF Debentures (before reduction for Korean withholding tax, if any) as dividend income when actually or constructively paid by KEPCO. Section 305 of the Code, which would apply to the ZTF Debentures if they were treated as equity for U.S. Federal income tax purposes, requires current accrual of dividends under principles similar to the accrual of OID. Amounts treated as dividends will not be eligible for the dividends received deduction generally allowed to U.S. corporations.

*Tax Consequences with Respect to Common Stock and ADSs*

In general, for U.S. Federal income tax purposes, holders of ADSs will be treated as the owners of the underlying common stock that is represented by such ADSs. Accordingly, deposits or withdrawals of common stock by holders of ADSs will not be subject to U.S. Federal income tax. However, the U.S. Treasury has expressed concerns that intermediaries in the chain of ownership between the holder of an ADS and the issuer of the security underlying the ADS may be taking actions that are inconsistent with the claiming of foreign tax credits by the holders of ADSs. Such actions would also be inconsistent with the claiming of the reduced rate of tax applicable to dividends received by certain non-corporate holders. Accordingly, the analysis of creditability of Korean taxes and the availability of the reduced tax rate for dividends received by certain non-corporate holders, each described below, could be affected by future actions that may be taken by such intermediaries.

*Distributions on Common Stock or ADSs*

The gross amount of distributions (other than certain distributions of common stock or rights to subscribe for common stock) to holders of common stock or ADSs (including amounts withheld in respect of Korean withholding taxes) will be treated as dividend income to such holders, to the extent paid out of our current or accumulated earnings and profits, as determined under U.S. Federal income tax principles. Such income (including withheld taxes) will be includable in the gross income of a holder as ordinary income on the day actually or constructively received by the holder, in the case of common stock, or by the Depository, in the case of ADSs. Such dividends will not be eligible for the dividends received deduction allowed to corporations under the Code.

**Table of Contents**

With respect to non-corporate U.S. Persons, certain dividends paid by a qualified foreign corporation and received by such holders in taxable years beginning before January 1, 2013 may be subject to reduced rates of taxation. A qualified foreign corporation includes a foreign corporation that is eligible for the benefits of an income tax treaty with the United States, if such treaty contains an exchange of information provision and the United States Treasury Department had determined that the treaty is satisfactory for purposes of the legislation. The United States Treasury Department has determined that the Treaty, which contains an exchange of information provision, is (in the absence of additional guidance) satisfactory for these purposes. In addition, we believe we are eligible for the benefits of the United States-Korean income tax treaty. However, a foreign corporation is also treated as a qualified foreign corporation with respect to dividends paid by that corporation on shares (or ADSs backed by such shares) that are readily tradable on an established securities market in the United States. Shares of our common stock will generally not be considered readily tradable for these purposes. However, United States Treasury Department guidance indicates that our ADSs, which are listed on the New York Stock Exchange, are readily tradable on an established securities market in the United States. There can be no assurance that our ADSs will be considered readily tradable on an established securities market in later years. Non-corporate U.S. Persons that do not meet a minimum holding period requirement during which they are not protected from a risk of loss or that elect to treat the dividend income as investment income pursuant to Section 163(d)(4) of the Code will not be eligible for the reduced rates of taxation regardless of our status as a qualified foreign corporation. In addition, the rate reduction will not apply to dividends if the recipient of a dividend is obligated to make related payments with respect to positions in substantially similar or related property. This disallowance applies even if the minimum holding period has been met. Holders should consult their own tax advisors regarding the application of the foregoing rules to their particular circumstances.

The amount of any dividend paid in Won will equal the United States dollar value of the Won received calculated by reference to the exchange rate in effect on the date the dividend is received by the holder, in the case of common stock, or by the Depositary, in the case of ADSs, regardless of whether the Won are converted into U.S. dollars. If the Won received as a dividend are not converted into U.S. dollars on the date of receipt, a holder will have a basis in the Won equal to their U.S. dollar value on the date of receipt. Any gain or loss realized on a subsequent conversion or other disposition of the Won will be treated as United States source ordinary income or loss. The amount of any distribution of property other than cash will be the fair market value of such property on the date of distribution.

The maximum rate of withholding tax on dividends paid to you pursuant to the Treaty is 16.5%. You will be required to properly demonstrate to us and the Korean tax authorities your entitlement to the reduced rate of withholding under the Treaty. Subject to certain conditions and limitations, Korean withholding taxes (up to the Treaty rate) will be treated as foreign taxes eligible for credit against your U.S. Federal income tax liability. For purposes of calculating the foreign tax credit, dividends paid on the common stock or ADSs will be treated as foreign source income and will generally constitute passive category income. Further, in certain circumstances, if you have held common stock or ADSs for less than a specified minimum period during which you are not protected from risk of loss, or are obligated to make payments related to the dividends, you will not be allowed a foreign tax credit for foreign taxes imposed on dividends paid on common stock or ADSs. The rules governing the foreign tax credit are complex. Investors are urged to consult their tax advisors regarding the availability of the foreign tax credit under their particular circumstances including the possible adverse impact on creditability to the extent you are entitled to a refund of any Korean tax withheld or a reduced rate of withholding.

To the extent that the amount of any distribution exceeds our current and accumulated earnings and profits for a taxable year, as determined under U.S. Federal income tax principles, the distribution will first be treated as a tax-free return of capital, causing a reduction in the adjusted basis of the common stock or ADSs (thereby increasing the amount of gain, or decreasing the amount of loss, to be recognized by the investor on a subsequent disposition of the common stock or ADSs), and the balance in excess of adjusted basis will be taxed as capital gain recognized on a sale or exchange of property. Consequently, such distributions in excess of our current and accumulated earnings and profits would not give rise to foreign source income and you generally would not be able to use the foreign tax credit arising from any Korean withholding tax imposed on such distributions unless



**Table of Contents**

such credit can be applied (subject to applicable limitations) against U.S. tax due on other foreign source income in the appropriate category for foreign tax credit purposes. However, we do not expect to keep earnings and profits in accordance with U.S. Federal income tax principles. Therefore, you should expect that a distribution will generally be treated as a dividend (as discussed above).

Distributions of common stock or rights to subscribe for common stock that are received as part of a pro rata distribution to all of our shareholders generally will not be subject to U.S. Federal income tax. Consequently such distributions will not give rise to foreign source income and you generally will not be able to use the foreign tax credit arising from any Korean withholding tax unless such credit can be applied (subject to applicable limitations) against U.S. tax due on other income derived from foreign sources. The basis of the new common stock or rights so received will be determined by allocating your basis in the old common stock between the old common stock and the new common stock or rights received, based on their relative fair market value on the date of distribution. However, the basis of the rights will be zero if (i) the fair market value of the rights is less than 15% of the fair market value of the old common stock at the time of distribution, unless the taxpayer elects to determine the basis of the old common stock and of the rights by allocating between the old common stock and the rights the adjusted basis of the old common stock or (ii) the rights are not exercised and thus expire.

*Sale, Exchange or Other Disposition of ADSs or Common Stock*

Upon the sale, exchange or other disposition of ADSs or common stock, you generally will recognize capital gain or loss equal to the difference between the amount realized upon the sale, exchange or other disposition and your adjusted tax basis in the ADSs or common stock. The capital gain or loss will be long-term capital gain or loss if at the time of sale, exchange or other disposition, the ADSs or common stock have been held by you for more than one year. Under current law, long-term capital gains of individuals are, under certain circumstances, taxed at lower rates than items of ordinary income. The deductibility of capital losses is subject to limitations. Any gain or loss recognized by you will generally be treated as U.S. source gain or loss. Consequently, you may not be able to use the foreign tax credit arising from any Korean tax imposed on the disposition of ADSs or common stock unless such credit can be applied (subject to applicable limitations) against tax due on other income treated as derived from foreign sources.

You should note that any Korean securities transaction tax will not be treated as a creditable foreign tax for U.S. Federal income tax purposes, although you may be entitled to deduct such taxes, subject to applicable limitations under the Code.

*Estate and Gift Taxation*

As discussed above in *Korean Taxes Registered Debt Securities Inheritance Tax and Gift Tax* and *Korean Taxes Shares or ADSs Inheritance Tax and Gift Tax*, Korea may impose an inheritance tax on your heir who receives ADSs and will impose an inheritance tax on an heir who receives common stock or Registered Debt Securities. The amount of any inheritance tax paid to Korea may be eligible for credit against the amount of U.S. Federal estate tax imposed on your estate. Prospective purchasers should consult their personal tax advisors to determine whether and to what extent they may be entitled to such credit. Korea also imposes a gift tax on the donation of any property located within Korea. The Korean gift tax generally will not be treated as a creditable foreign tax for United States tax purposes.

*Information Reporting and Backup Withholding*

In general, information reporting requirements will apply to principal, interest, OID and premium payments on Registered Debt Securities and dividend payments in respect of the common stock or ADSs or the proceeds received on the sale, exchange or redemption of the Registered Debt Securities, common stock or ADSs paid within the United States (and in certain cases, outside of the United States) to holders other than certain exempt recipients, and a backup withholding may apply to such amounts if you fail to provide an accurate taxpayer identification number or to report interest and dividends required to be shown on your U.S. Federal income tax returns. The amount of any backup withholding from a payment to you will be allowed as a refund or a credit against your U.S. Federal income tax liability, provided the required information is furnished to the IRS.

**Table of Contents**

**Item 10F. Dividends and Paying Agents**

Not Applicable

**Item 10G. Statements by Experts**

Not Applicable

**Item 10H. Documents on Display**

We are subject to the information requirements of the Exchange Act, and, in accordance therewith, are required to file reports, including annual reports on Form 20-F, and other information with the U.S. Securities and Exchange Commission. You may inspect and copy these materials, including this report and the exhibits thereto, at SEC's Public Reference Room 100 Fifth Street, N.E., Washington, D.C. 20549. Please call the Commission at 1-800-SEC-0330 for further information on the public reference rooms. As a foreign private issuer, we are also required to make filings with the Commission by electronic means. Any filings we make electronically will be available to the public over the Internet at the Commission's web site at <http://www.sec.gov>.

**Item 10I. Subsidiary Information**

Not Applicable

**Table of Contents****ITEM 11. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK**

Our primary market risk exposures are to fluctuations in exchange rates, interest rates and fuel prices. We are exposed to foreign exchange risk related to foreign-currency denominated liabilities. As of December 31, 2011, approximately 23.2% of our long-term debt (including the current portion and discounts on debentures but excluding premium on debentures) before accounting for swap transactions was denominated in foreign currencies, principally in the U.S. dollar, Yen and Euro. However, substantially all of our revenues are denominated in Won. As a result, changes in exchange rates, particularly between the Won and the U.S. dollar, significantly affect us due to our significant amounts of foreign-currency denominated debt and the effect of such changes on the amount of funds required by us to make interest and principal payments on such debt. In order to reduce the impact of foreign exchange rate fluctuations on our results of operations, we have recently been reducing and plan to continue to reduce the proportion of our debt which is denominated in foreign currencies and the proportion of its foreign currency debt which is denominated in U.S. dollars.

We are also exposed to foreign exchange risk related to our purchases of fuels since we obtain substantially all of our fuel materials (other than anthracite coal) directly or indirectly from sources outside Korea. Prices for such fuel materials are quoted based on prices stated in, and in many cases are paid for in, currencies other than Won. In 2011, fuel costs represented 48.2% of our sales.

We are exposed to interest rate risk due to significant amounts of debt. Upward fluctuations in interest rates increase the cost of additional debt and the interest cost of outstanding floating rate borrowings. We are also exposed to fluctuations in prices of fuel materials. In 2011, for electricity generation, uranium accounted for 34.2% of our fuel requirements, coal accounted for 45.4%, LNG accounted for 16.8% and oil accounted for 2.2%. In 2010, measured on the same basis, accounted for 34.1% of our fuel requirements, coal accounted for 45.5%, LNG accounted for 16.6% and oil accounted for 2.5%, measured in each case by the amount of electricity we generated.

For additional discussions of our market risks, see Item 3D. Risk Factors and Item 5B. Liquidity and Capital Resources Liquidity.

We have entered into various swap contracts to hedge exchange rate risks arising from foreign currency-denominated debts. Details of currency swap contracts outstanding as of December 31, 2011 are as follows:

Type	Counterparty	Contract year	Settlement year	Contract amounts		Contract interest rate		Contract exchange rate
				Pay (KRW in millions, USD, JPY in thousands)	Receive	Pay	Receive	
Trading	Morgan Stanley	2010	2012	KRW 120,000	USD 100,000	3.75%	3M USD Libor + 1.90%	1,200.00
	Morgan Stanley	2010	2015	KRW 118,800	USD 100,000	4.61%	3M USD Libor + 1.64%	1,188.00
	ING	2010	2012	KRW 117,900	USD 100,000	3.64%	6M USD Libor + 1.37%	1,179.00
	M-UFJ	2010	2015	KRW 116,100	USD 100,000	4.00%	3M USD Libor + 1.00%	1,161.00
	DBS	2011	2014	KRW 56,150	USD 50,000	4.21%	3M USD Libor + 1.00%	1,123.00
	SMBC	2011	2014	KRW 56,150	USD 50,000	4.21%	3M USD Libor + 1.00%	1,123.00

**Table of Contents**

Type	Counterparty	Contract year	Settlement year	Contract amounts			Contract interest rate		Contract exchange rate
				Pay	Receive		Pay	Receive	
				(KRW in millions, USD, JPY in thousands)					
	Mizuho	2011	2014	KRW 112,800	USD 100,000		3.86%	3M USD Libor + 0.80%	1,128.00
	DBS	2011	2014	KRW 109,500	USD 100,000		3.80%	3M USD Libor + 0.85%	1,095.00
	Barclays	2008	2013	KRW 187,020	USD 200,000		7.50%	7.75%	935.10
	Credit Suisse	2008	2013	KRW 140,265	USD 150,000		6.94%	7.75%	935.10
	Shinhan Bank	2010	2014	KRW 84,615	USD 75,000		6.83%	5.50%	1,128.20
	RBS	2010	2014	KRW 141,125	USD 125,000		6.78%	5.50%	1,129.00
	Morgan Stanley	2010	2014	KRW 112,320	USD 100,000		6.71%	5.50%	1,123.20
	HSBC	2010	2014	KRW 112,320	USD 100,000		6.71%	5.50%	1,123.20
	BOA	2010	2014	KRW 110,310	USD 100,000		6.93%	5.50%	1,103.10
	UBS	2011	2015	KRW 220,356	USD 200,000		3.90%	3.00%	1,101.78
	RBS	2011	2015	KRW 110,110	USD 100,000		3.90%	3.00%	1,101.10
	Barclays	2011	2015	KRW 108,390	USD 100,000		3.78%	3.00%	1,083.90
	Credit Suisse	2011	2015	KRW 108,390	USD 100,000		3.78%	3.00%	1,083.90
	Morgan Stanley	2011	2015	KRW 63,006	USD 60,000		4.06%	3.00%	1,050.10
	BTMU	2009	2012	KRW 138,018	JPY 10,000,000		4.10%	3M EuroYen Tibor + 2.50%	13.80
	Deutsche Bank	2009	2014	KRW 126,610	USD 100,000		5.39%	6.25%	1,266.10
	Nomura Securities	2009	2014	KRW 126,610	USD 100,000		5.35%	6.25%	1,266.10
	Nomura Securities	2009	2014	KRW 126,610	USD 100,000		5.33%	6.25%	1,266.10
	Morgan Stanley	2009	2014	KRW 126,610	USD 100,000		5.32%	6.25%	1,266.10
	Morgan Stanley	2010	2014	KRW 126,610	USD 100,000		5.30%	6.25%	1,266.10
	Barclays	2010	2014	KRW 126,610	USD 100,000		5.29%	6.25%	1,266.10
	CITI	2010	2014	KRW 126,610	USD 100,000		5.27%	6.25%	1,266.10
	JP Morgan	2010	2014	KRW 126,610	USD 100,000		4.93%	6.25%	1,266.10
	Deutsche Bank	2010	2014	KRW 126,610	USD 100,000		4.93%	6.25%	1,266.10
	RBS	2010	2014	KRW 126,610	USD 100,000		4.93%	6.25%	1,266.10
	DBS	2010	2013	KRW 226,900	USD 200,000		3.70%	3M USD Libor + 0.25%	1,134.50
	SMBC	2010	2013	KRW 113,400	USD 100,000		3.92%	3M USD Libor + 0.90%	1,134.00
	BTMU	2010	2013	KRW 56,525	USD 50,000		3.92%	3M USD Libor + 0.90%	1,130.50
	Mizuho	2010	2013	KRW 56,750	USD 50,000		3.92%	3M USD Libor + 0.90%	1,135.00
	CITI	2010	2015	KRW 116,080	USD 100,000		3.97%	3.13%	1,160.80
	Deutsche Bank	2010	2015	KRW 116,080	USD 100,000		3.98%	3.13%	1,160.80

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

RBS	2010	2015	KRW 116,080	USD 100,000	3.97%	3.13%	1,160.80
HSBC	2010	2015	KRW 116,080	USD 100,000	3.23%	3.13%	1,160.80
UBS	2010	2015	KRW 116,080	USD 100,000	3.23%	3.13%	1,160.80

**Table of Contents**

Type	Counterparty	Contract year	Settlement year	Contract amounts		Contract interest rate		Contract exchange rate
				Pay	Receive	Pay	Receive	
				(KRW in millions, USD, JPY in thousands)				
Cash flow hedge	Credit Suisse	2009	2013	KRW 197,475	USD 150,000	5.12%	4.75%	1,316.50
	Credit Suisse	2006	2016	KRW 94,735	USD 100,000	5.26%	6.00%	947.35
	Barclays	2006	2016	KRW 94,735	USD 100,000	5.26%	6.00%	947.35
	Citibank	2006	2016	KRW 94,735	USD 100,000	5.24%	6.00%	947.35
	Goldman Sachs	2011	2017	KRW 105,260	USD 100,000	3.99%	3.63%	1,052.60
	Citibank	2011	2017	KRW 105,260	USD 100,000	3.99%	3.63%	1,052.60
	Barclays	2011	2017	KRW 105,260	USD 100,000	3.99%	3.63%	1,052.60
	UBS	2006	2016	KRW 98,100	USD 100,000	5.48%	5.50%	981.00
	Credit Suisse	2006	2016	KRW 98,100	USD 100,000	5.48%	5.50%	981.00
	Citi Group	2008	2013	KRW 113,304	USD 120,000	4.96%	5.38%	944.20
	Goldman Sachs	2008	2013	KRW 113,304	USD 120,000	4.96%	5.38%	944.20
	Barclays	2008	2013	KRW 56,652	USD 60,000	4.96%	5.38%	944.20
	Barclays	2006	2016	KRW 71,888	USD 75,000	4.81%	5.50%	958.51
	Deutsche Bank	2006	2016	KRW 71,888	USD 75,000	4.81%	5.50%	958.51
	Barclays	2004	2014	KRW 172,875	USD 150,000	5.10%	5.75%	1,152.50
	RBS	2008	2013	KRW 149,040	USD 150,000	5.03%	5.38%	993.60
	Deutsche Bank	2008	2013	KRW 149,040	USD 150,000	5.03%	5.38%	993.60
	BTMU	2010	2013	KRW 113,200	USD 100,000	4.11%	3M USD Libor +	1,132.00
							0.80%	
	BTMU	2010	2015	KRW 55,900	USD 50,000	4.03%	3M USD Libor +	1,118.00
							1.20%	

Under these currency swap contracts, we recognized a valuation gain of Won 148,299 million in 2011, net.

**Table of Contents**

Details of interest rate contracts outstanding as of December 31, 2011 are as follows:

Type	Counterparty	Contract year	Settlement year	Notional amount (KRW in millions,		Contract interest rate		
						Pay	per annum Receive	
<b>JOD, MXN in thousands)</b>								
Trading	Korea Exchange Bank	2010	2013	KRW	100,000	4.18%	3M CD	+ 0.58%
	Nonghyup Bank	2010	2015	KRW	100,000	4.90%	3M CD	+ 1.05%
	Nonghyup Bank	2010	2015	KRW	100,000	4.83%	3M CD	+ 0.90%
	Nonghyup Bank	2010	2015	KRW	50,000	4.77%	3M CD	+ 0.90%
	Korea Exchange Bank	2011	2014	KRW	100,000	4.08%	3M CD	+ 0.03%
	Korea Exchange Bank	2011	2012	KRW	100,000	3.93%	3M CD	+ 0.04%
	Korea Exchange Bank	2011	2014	KRW	100,000	3.89%	3M CD	+ 0.05%
	Korea Exchange Bank	2011	2013	KRW	100,000	3.89%	3M CD	+ 0.07%
	Shinhan Bank	2011	2014	KRW	100,000	3.63%	3M CD	+ 0.18%
	Korea Exchange Bank	2011	2013	KRW	100,000	3.85%	3M CD	+ 0.43%
	Woori Bank	2011	2013	KRW	150,000	3.92%	3M CD	+ 0.43%
	Kookmin Bank	2011	2013	KRW	100,000	3.84%	3M CD	+ 0.44%
	Hana Bank	2011	2013	KRW	50,000	3.67%	3M CD	+ 0.25%
	Korea Exchange Bank	2011	2014	KRW	200,000	3.66%	3M CD	+ 0.24%
	Korea Exchange Bank	2011	2013	KRW	100,000	3.53%	3M CD	+ 0.14%
	Korea Exchange Bank	2011	2013	KRW	100,000	3.56%	3M CD	+ 0.19%
	Shinhan Bank	2011	2012	KRW	100,000	3.60%	3M CD	+ 0.08%
	Korea Exchange Bank	2009	2012	KRW	100,000	4.88%	3M CD	+ 0.54%
	RBS	2009	2012	KRW	100,000	4.79%	3M CD	+ 0.55%
	Korea Exchange Bank	2010	2013	KRW	100,000	4.11%	3M CD	+ 0.25%
Cash flow hedge	BNP Paribas	2009	2027	JOD	119,335	4.16%	6M USD	Libor
	KFW	2009	2027	JOD	119,335	4.16%	6M USD	Libor
	Credit Agricole	2011	2012	MXN	33,750	1.33%	6M USD	Libor
	SMBC	2011	2012	MXN	41,250	1.33%	6M USD	Libor
	Credit Agricole	2011	2012	MXN	4,990	3.98%	6M USD	Libor
	SMBC	2011	2012	MXN	4,990	4.06%	6M USD	Libor
	Credit Agricole	2011	2012	MXN	6,604	4.10%	6M USD	Libor
	SMBC	2011	2012	MXN	6,604	4.18%	6M USD	Libor
	Credit Agricole	2011	2012	MXN	13,355	4.10%	6M USD	Libor
	SMBC	2011	2012	MXN	13,355	4.05%	6M USD	Libor

Under these interest rate swap contracts, we recognized a valuation gain of Won 23,426 million in 2011, net.

The following analysis sets forth the sensitivity of our consolidated net income before income taxes (our pre-tax income) to changes in exchange rates, interest rates and fuel costs. For purposes of this section, we and the generation subsidiaries will be deemed one entity. The range of changes in such risk categories represents our view of the changes that are reasonably possible over a one-year period, although it is difficult to predict such changes as a result of adverse economic developments in Korea. See Item 3D. Risk Factors Risks Relating to Korea and the Global Economy Unfavorable financial and economic conditions in Korea and globally may have a material adverse impact on us. The following discussion only addresses material market risks faced by us and does not discuss other risks which we face in the normal course of business, including country risk, credit risk and legal risk. Unless otherwise specified, all calculations are made under IFRS.

---

**Table of Contents**

The following modeling assumptions were made in the following sensitivity analysis for 2012:

- (1) For any one year period, the Won/U.S. dollar exchange rate at the beginning of such period was assumed to be Won 1,153.3 to US\$1.00, which was the Seoul Money Brokerage Service rate as of December 31, 2011;
- (2) The amount of foreign currency debt to be incurred by us in 2012 was assumed to be US\$3,652 million (or the equivalent amount thereof in other foreign currency) for each year; and

(3) For any one-year period, we used prices of fuel materials in our budget for 2012 as the beginning fuel prices. If Won depreciates against U.S. dollar and all other foreign currencies held by us by 10% and all other variables are held constant from their levels as of December 31, 2011, we estimate that our foreign exchange translation losses will increase by Won 1,108 billion in 2012. Under IFRS, such translation losses are to be credited or charged to current operations. However, foreign exchange translation losses during the construction period on debt incurred for the construction of utility plants are permitted to be capitalized under IFRS. See Note 44 of the notes to our consolidated financial statements.

If the interest rates increase by 1% on all of our borrowings and debentures bearing variable interest and all other variables are held constant from their levels as of December 31, 2011, we estimate that our income before income taxes will decrease by Won 71 billion in 2012 (not reflecting the fact that a portion of such interest may be capitalized under IFRS).

If the fuel prices of anthracite and bituminous coal, oil, LNG and others rise by 1% and all other variables are held constant at their levels as of December 31, 2011, we estimate that our income before income taxes will decrease by Won 212 billion in 2012.

If the electricity rate rises by 1% and all other variables are held constant at their levels as of December 31, 2011, we estimate that our net income will increase by 310 billion in 2012.

The above discussion and the estimated amounts generated from the sensitivity analyses referred to above include forward-looking statements, which assume for analytical purposes that certain market conditions may occur. Accordingly, such forward-looking statements should not be considered projections by us of future events or losses.

See Note 44 of the notes to our consolidated financial statements for further related information.

**ITEM 12. DESCRIPTION OF SECURITIES OTHER THAN EQUITY SECURITIES**

**Item 12A. Debt Securities**

Not applicable.

**Item 12B. Warrants and Rights**

Not applicable.

**Item 12C. Other Securities**

Not applicable.



**Table of Contents****Item 12D. American Depositary Shares**

Under the terms of the Deposit Agreement in respect of our ADSs, the holder and beneficiary owners of ADSs, any party depositing or withdrawing or surrendering ADSs or ADRs, whichever applicable, may be required to pay the following fees and charges to JPMorgan Chase Bank acting as depositary for our ADSs:

Item	Services	Fees
1	Taxes and other governmental charges	As applicable
2	Registration of transfer of common shares generally on our shareholders register, any institution authorized under the applicable law to effect book-entry transfers of securities (including Korea Securities Depository), or any entity that presently carries out the duties of registrar for the common shares, and applicable to transfers of common shares to the name of the Depository or its nominee on the making of deposits or withdrawals	A fee of \$1.50 or less per ADS
3	Cable, telex and facsimile transmission expenses	As applicable
4	Expenses incurred by the Depository in the conversion of foreign currency	As applicable
5	Execution and delivery of ADRs and the surrender of ADRs	Fee of \$0.05 or less per ADS
6	Cash distribution made by the Depository or its agent	Fee of \$0.02 or less per ADS
7	Fee for the distribution of proceeds of sales of securities or rights for distribution other than cash, common shares or rights to subscribe for shares, distribution in shares or distribution in rights to subscribe for shares	Lesser of (i) the fee for the execution and delivery of ADRs referred to above which would have been charged as a result of the deposit by the holders of securities or common shares received in exercise of rights distributed to them, but which securities or rights are instead sold by the Depository and the net proceeds distributed and (ii) the amount of such proceeds
8	Depository services performed in administering the ADRs (which fee shall be assessed against holders of ADSs as of the record date or dates and shall be payable at the sole discretion of the Depository by billing such holders or by deducting such charge from one or more cash dividends or other cash distributions)	Fee of US\$0.02 or less per ADS per calendar year

Depository fees payable upon the issuance and cancellation of ADSs are typically paid to the depositary by the brokers (on behalf of their clients) receiving the newly-issued ADSs from the depositary and by the brokers (on behalf of their clients) delivering the ADSs to the depositary for cancellation. The brokers in turn charge these transaction fees to their clients.

Depository fees payable in connection with distributions of cash or securities to ADS holders and the depositary services fee are charged by the depositary to the holders of record of ADSs as of the applicable ADS record date. The depositary fees payable for cash distributions are generally deducted from the cash being

**Table of Contents**

distributed. In the case of distributions other than cash (i.e., stock dividends, rights offerings), the depository charges the applicable fee to the ADS record date holders concurrent with the distribution. In the case of ADSs registered in the name of the investor (whether certificated or un-certificated in direct registration), the depository sends invoices to the applicable record date ADS holders. In the case of ADSs held in brokerage and custodian accounts via the central clearing and settlement system, The Depository Trust Company ( DTC ), the depository generally collects its fees through the systems provided by DTC (whose nominee is the registered holder of the ADSs held in DTC) from the brokers and custodians holding ADSs in their DTC accounts. The brokers and custodians who hold their clients' ADSs in DTC accounts in turn charge their clients' accounts the amount of the fees paid to the depository.

In the event of refusal to pay the depository fees, the depository may, under the terms of the Deposit Agreement, refuse the requested service until payment is received or may set-off the amount of the depository fees from any distribution to be made to the ADS holder.

The fees and charges the ADS holders may be required to pay may vary over time and may be changed by us and by the depository. The ADS holders will receive prior notice of such changes.

***Depository Payments for the Fiscal Year 2011***

The following table sets forth our expenses incurred in 2011, which were reimbursed by JPMorgan Chase Bank, N.A., acting as depository for our ADSs:

	<b>In thousands of U.S. dollars)</b>
Reimbursement of listing fees on the New York Stock Exchange	US\$ 118
Reimbursement of legal fees	239
Reimbursement of accounting fees	205
Contributions towards our investor relations and other financing efforts (including investor conferences, non-deal roadshows and market information services)	942
Other	22
<b>Total</b>	<b>US\$ 1,526</b>

**Table of Contents**

**PART II**

**ITEM 13. DEFAULTS, DIVIDEND ARREARAGES AND DELINQUENCIES**

Not applicable.

**ITEM 14. MATERIAL MODIFICATIONS TO THE RIGHTS OF SECURITY HOLDERS AND USE OF PROCEEDS**

Not applicable.

**ITEM 15. CONTROLS AND PROCEDURES**

**Disclosure Control**

Under the supervision and with the participation of our management, including our chief executive officer and chief financial officer, we have evaluated the effectiveness of the design and operation of our disclosure controls and procedures (as defined in Rule 13a-15(e) under the Exchange Act) as of December 31, 2011. There are inherent limitations to the effectiveness of any system of disclosure controls and procedures, including the possibility of human error and the circumvention or overriding of the controls and procedures. Accordingly, even effective disclosure controls and procedures can provide only reasonable assurance of achieving their control objectives. Based upon our evaluation, our chief executive officer and chief financial officer concluded that the design and operation of our disclosure controls and procedures as of December 31, 2011 were effective to provide reasonable assurance that information required to be disclosed by us in the reports we file and submit under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the applicable rules and forms, and that it is accumulated and communicated to our management, including our chief executive officer and chief financial officer, as appropriate to allow timely decision regarding required disclosure.

**Management's Annual Report on Internal Control Over Financial Reporting**

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act, for our company. Under the supervision and with the participation of our management, including our chief executive officer and chief financial officer, we have evaluated the effectiveness of our internal control over financial reporting as of December 31, 2011 based on the framework established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission. Our internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of consolidated financial statements in accordance with generally accepted accounting principles and includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of a company's assets, (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of consolidated financial statements in accordance with generally accepted accounting principles, and that a company's receipts and expenditures are being made only in accordance with authorizations of a company's management and directors, and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of a company's assets that could have a material effect on the consolidated financial statements.

Because of its inherent limitations, a system of internal control over financial reporting can provide only reasonable assurance with respect to consolidated financial statement preparation and presentation and may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

As required by Section 404 of the Sarbanes-Oxley Act of 2002 and related rules as promulgated by the Securities and Exchange Commission, management assessed the effectiveness of our internal control over financial reporting as of December 31, 2011 using criteria established in Internal Control-Integrated Framework

## **Table of Contents**

issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on this evaluation, our management concluded that our internal control over financial reporting was effective as of December 31, 2011 based on the criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission.

The effectiveness of internal control over financial reporting has been audited by Deloitte Anjin LLC, an independent registered public accounting firm, who has also audited our consolidated financial statements for the year ended December 31, 2011.

### **Attestation Report of the Independent Registered Public Accounting Firm**

Deloitte Anjin LLC has issued an attestation report on the effectiveness of our internal control over financial reporting under Auditing Standard No. 5 of the Public Company Accounting Oversight Board, which is included elsewhere in this report.

### **Changes in Internal Controls**

There were no changes in our internal control over financial reporting that occurred during the year ended December 31, 2011 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

### **ITEM 16. [RESERVED]**

#### **ITEM 16A. AUDIT COMMITTEE FINANCIAL EXPERT**

Our board of directors has determined that we have at least one audit committee financial expert as such term is defined by the regulations of the Securities and Exchange Commission issued pursuant to Section 407 of the Sarbanes-Oxley Act of 2002. Our audit committee financial expert is Nam, Dong-Kyoon. Such member currently remains a member of the audit committee and is independent within the meaning of the Korea Stock Exchange listing standards, the regulations promulgated under the Enforcement Decree of the Korean Commercial Code and the New York Stock Exchange listing standards. For biographic information of our audit committee financial expert, Nam, Dong-Kyoon, see Item 6A. Directors and Senior Management.

#### **ITEM 16B. CODE OF ETHICS**

We have adopted a code of ethics for our principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions as required under Section 406 of the Sarbanes-Oxley Act of 2002, together with an insider reporting system in compliance with Section 301 of the Sarbanes-Oxley Act. The code of ethics is available on our website [www.kepco.co.kr](http://www.kepco.co.kr). We have not granted any waiver, including an implicit waiver, from a provision of the code of ethics to any of the above-mentioned officers during our most recently completed fiscal year.

**Table of Contents****ITEM 16C. PRINCIPAL ACCOUNTANT FEES AND SERVICES**

The following table sets forth the aggregate fees billed for each of the years ended December 31, 2010 and 2011 for professional services rendered by our principal accountants for such year, for various types of services and a brief description of the nature of such services. Deloitte Anjin LLC, a member firm of Deloitte Touche Tohmatsu Limited, a UK private company limited by guarantee, was our principal accountant for the years ended December 31, 2010 and 2011, and we currently expect them to serve as our principal accountant for the year ended December 31, 2012.

Type of services	Aggregate fees billed during the Year Ended December 31,		Nature of services
	2010 (Deloitte Anjin)	2011 (Deloitte Anjin)	
	(In millions of Won)		
Audit Fees	(Won) 3,439	(Won) 3,100	Audit service for KEPCO and its subsidiaries.
Audit-Related Fees	100	87	Accounting advisory service.
Tax Fees	4	5	Tax return and consulting advisory service.
All Other Fees			All other services which do not meet the three categories above.
<b>Total</b>	<b>(Won) 3,543</b>	<b>(Won) 3,192</b>	

United States law and regulations in effect since May 6, 2003 generally require all engagements of the principal accountants be pre-approved by an independent audit committee or, if no such committee exists with respect to an issuer, by the entire board of directors. We have adopted the following policies and procedures for consideration and approval of requests to engage our principal accountants to perform audit and non-audit services. Engagement requests of audit and non-audit services for us and our subsidiaries must in the first instance be submitted to our Treasury Department subject to reporting to our Chief Financial Officer. If the request relates to services that would impair the independence of our principal accountants, the request must be rejected. If the engagement request relates to audit and permitted non-audit services, it must be forwarded to our audit committee.

In addition, United States law and regulations permit the pre-approval requirement to be waived with respect to engagements for non-audit services aggregating no more than five percent of the total amount of revenues we paid to our principal accountants, if such engagements were not recognized by us at the time of engagement and were promptly brought to the attention of our audit committee or a designated member thereof and approved prior to the completion of the audit.

**ITEM 16D. EXEMPTIONS FROM THE LISTING STANDARDS FOR AUDIT COMMITTEE**

Not applicable.

**ITEM 16E. PURCHASES OF EQUITY SECURITIES BY THE ISSUER AND AFFILIATED PURCHASERS**

Neither we nor any affiliated purchaser, as defined in Rule 10b-18(a)(3) of the Exchange Act, purchased any of our equity securities during the period covered by this report.

**ITEM 16F. CHANGE IN REGISTRANT'S CERTIFYING ACCOUNTANTS**

Not applicable.

## **Table of Contents**

### **ITEM 16G. CORPORATE GOVERNANCE**

We are committed to high standards of corporate governance. We are in compliance with the corporate governance provisions of the KEPCO Act, the Public Agencies Management Act, the Korean Commercial Code, the Financial Investment Services and Capital Markets Act of Korea and the Listing Rules of the Korea Exchange. We, like all other companies in Korea, must comply with the corporate governance provisions under the Korean Commercial Code, except to the extent the KEPCO Act and the Public Agencies Management Act otherwise require. In addition, as a listed company, we are subject to the Financial Investment Services and Capital Markets Act of Korea, unless the Financial Investment Services and Capital Markets Act of Korea otherwise provides.

#### **The Public Agencies Management Act**

On April 1, 2007, the Government-Invested Enterprise Management Basic Act, which was enacted in 1984, was abolished and the Public Agencies Management Act took effect. Unless stated otherwise, the Public Agencies Management Act takes precedence over any other laws and regulations in the event of inconsistency. Under this Act, the Minister of the Ministry of Strategy and Finance designated us as a market-oriented public enterprise, as defined under this Act, on April 2, 2007, and we became subject to this Act accordingly.

The Public Agencies Management Act requires a number of changes in the appointment process for our executive officers, which we have incorporated in our amendment to our Articles of Incorporation in September 2007. A senior non-standing director appointed by the Minister of the Ministry of Strategy and Finance becomes our chairman of the board following the review and resolution of the Public Agencies Operating Committee. Our president is appointed by the President of the Republic upon the motion of the Ministry of Knowledge Economy following the nomination by our director nomination committee, the review and resolution of the Public Agencies Operating Committee pursuant to the Public Agencies Management Act and an approval at the general meeting of our shareholders. Standing directors other than our president must be appointed by our president with the approval at the general meeting of our shareholders from a pool of candidates recommended by our director nomination committee. Prior to the enactment of the Act, standing directors were appointed directly by the Minister of the Ministry of Knowledge Economy. The non-standing directors must be appointed by the Minister of the Ministry of Strategy and Finance following the review and resolution of the Public Agencies Operating Committee from a pool of candidates recommended by the director nomination committee and must have ample knowledge and experience in business management. Government officials that are not part of the teaching staff in national and public schools are ineligible to become our non-standing directors.

Under the Public Agencies Management Act and our Articles of Incorporation, the term of office for directors that are appointed after the effective date of such act, or April 1, 2007, is three years for the president and two years for other directors. The directors may be reappointed for an additional term of one year. In order to be reappointed, the president must be evaluated on the basis of his management performance; a standing director, on the basis of the performance of the duties for which he was elected to perform, or if the standing director has executed an incentive bonus contract, on the basis of his performance under the contract; and a non-standing director, on the basis of his performance of the duties for which he was elected to perform.

Under the Public Agencies Management Act and our Articles of Incorporation, a recommendation from the director nomination committee is required for the appointment of our executive officers, except in the case of reappointments. The director nomination committee consists of five to fifteen members, including private-sector members appointed by the board of directors. Non-standing directors must comprise at least the majority of the director nomination committee. One of the private-sector members must be able to represent our opinion and must not be currently employed by us. As required under the Public Agencies Management Act, we established an audit committee. At least two-thirds of the audit committee members must be non-standing directors, and at least one committee member must be an expert in finance or accounting. According to the Public Agencies Management Act, our president's term cannot be terminated unless done so by the President of the Republic pursuant to the Public Agencies Management Act or upon an event as specified in our Articles of Incorporation.

---

## **Table of Contents**

As required under Public Agencies Management Act, we submit to the Government by October 31 every year a report on our medium- to long-term management goals. Under the Public Agencies Management Act, we are also required to give separate public notice of important management matters, such as our budget and financial statements, status of directors and annual reports. In addition, for purposes of providing a comparison of the management performances of government agencies, we are required to post on a designated website a notice on a standard form detailing our management performance. Following consultation with the Minister of the Ministry of Knowledge Economy and the review and resolution of the operating committee, the Minister of Strategy and Finance must examine the adequacy and competency of government agencies and establish plans on merger, abolishment, restructuring and privatization of public agencies. In such case, the Minister of the Ministry of Knowledge Economy must execute these plans and submit a performance report to the Minister of Strategy and Finance.

The Korea Electric Power Corporation Act and other laws that had conflicted with the Public Agencies Management Act were amended on May 17, 2010. We amended our Articles of Incorporation to reflect the relevant provisions of the Public Agencies Management Act at a general meeting of our shareholders resolution on September 7, 2007. We also revised our internal regulations as necessary to comply with the Public Agencies Management Act.

On January 24, 2011, the Ministry of Knowledge Economy changed the designation of our generation subsidiaries from other public institutions to market-oriented public enterprise. As other public institutions under the provisions of the Public Agencies Management Act, our generation subsidiaries were not subject to the same regulations applicable to us with regards to corporate governance matters such as the appointment and dismissal of directors and the composition of the boards of directors. However, as market-oriented public enterprises, our generation subsidiaries are currently subject to the same corporate governance rules applicable to us. All of our generation subsidiaries accordingly amended their respective articles of incorporation in 2011 and are currently generally subject to the same system of regulations applicable to us.

### **Differences in Korean/New York Stock Exchange Corporate Governance Practices**

We are a foreign private issuer (as such term is defined in Rule 3b-4 under the Exchange Act), and our ADSs are listed on the New York Stock Exchange, or NYSE. Under Section 303A of the NYSE Listed Company Manual, NYSE-listed companies that are foreign private issuers are permitted to follow home country practice in lieu of the corporate governance provisions specified by the NYSE with limited exceptions. Under the NYSE Listed Company Manual, we as foreign private issuers are required to disclose significant differences between NYSE's corporate governance standards and those we follow under Korean law. The following summarizes some significant ways in which our corporate governance practices differ from those followed by U.S. companies listed on the NYSE under the listing rules of the NYSE:

#### ***Majority of Independent Directors on the Board***

Under the NYSE listing rules, U.S. companies listed on the NYSE must have a board the majority of which is comprised of independent directors satisfying the requirements of independence as set forth in Rule 10A-3 under the Exchange Act. No director qualifies as independent unless the board of directors affirmatively determines that the director has no material relationship with the listed company (either directly or as a partner, shareholder or officer of an organization that has a relationship with us). The NYSE rules include detailed tests for determining director independence. While as a foreign private issuer, we are exempt from this requirement, our board of directors is in compliance with this requirement as it currently consists of 15 directors, of which eight directors satisfy the requirements of independence as set forth in Rule 10A-3 under the Exchange Act. U.S. companies listed on the NYSE are required to adopt and disclose corporate governance guidelines. Under the Public Agencies Management Act, more than one-half of our directors must be non-standing directors. The Financial Investment Services and Capital Markets Act of Korea deems a non-standing director nominated pursuant to other applicable laws (such as the Public Agencies Management Act) as an outside or non-executive director. Under the Public Agencies Management Act, a non-standing director is appointed by the

## **Table of Contents**

Ministry of Strategy and Finance following the review and resolution of the Public Agencies Operating Committee from a pool of candidates recommended by the director nomination committee and must have ample knowledge and experience in business management. Government officials that are not part of the teaching staff in national and public schools are ineligible to become our non-standing directors.

### ***Executive Session***

Under the NYSE listing rules, non-management directors of U.S. companies listed on the NYSE are required to meet on a regular basis without management present and independent directors must meet separately at least once per year. While no such requirement currently exists under applicable Korean law, listing standards or our Articles of Incorporation, exclusive sessions were held quarterly in 2011 in order to promote the exchange of diverse opinions by non-standing directors.

### ***Audit Committee***

Under the NYSE listing rules, listed companies must have an audit committee that has a minimum of three members, and all audit committee members must satisfy the requirements of independence set forth in Section 303A.02 of the NYSE Listed Company Manual and Rule 10A-3 under the Exchange Act. We are in compliance with this requirement as our audit committee is comprised of three outside directors meeting the requirements of independence set forth in Section 303A.02 of the NYSE Listed Company Manual and Rule 10A-3 under the Exchange Act. The audit committee must be directly responsible for the appointment, compensation, retention and oversight of the work of the independent registered public accountants. Consistent with the application of the legal requirements then in effect, in June 2005, we amended our Articles of Incorporation, among others, to comply with the general exemptions provided under the audit committee requirements of the Sarbanes-Oxley Act, embodied in Rule 10A-3 of the Exchange Act and established a board of auditors, consisting of one standing auditor and two non-standing auditors. Beginning in the second half of 2005, our board of auditors performed the roles and responsibilities required of an audit committee under the Sarbanes-Oxley Act, including the supervision of the audit by the independent registered public accountants. Under the Korea Exchange listing rules and the Korean Commercial Code, a large listed company must also establish an audit committee of which at least two-thirds of its members must be outside directors and whose chairman must be an outside director. In addition, at least one member of the audit committee who is an outside director must also be an accounting or financial expert. Currently, our audit committee consists of three independent directors, and our audit committee is in compliance with the foregoing requirements under the NYSE listing rules, the Sarbanes-Oxley Act, the Korea Exchange listing rules and the Korean Commercial Code.

### ***Nomination/Corporate Governance Committee***

Under the NYSE listing rules, U.S. companies listed on the NYSE must have a nomination/corporate governance committee composed entirely of independent directors. In addition to identifying individuals qualified to become board members, this committee must develop and recommend to the board a set of corporate governance principles. Under the Public Agencies Management Act, we are required to have a director nomination committee which consists of non-standing directors and ad hoc members appointed by our Board of Directors. Our standing directors and executives as well as governmental officials that are not part of the teaching staff in national and public schools are ineligible to become a member of our director nomination committee. There is no requirement to establish a corporate governance committee under applicable Korean law.

Pursuant to the NYSE listing standards, non-management directors must meet on a regular basis without management present and independent directors must meet separately at least once per year. No such requirement currently exists under applicable Korean law.

### ***Compensation Committee***

Under the NYSE listing rules, U.S. companies listed on the NYSE are required to have a compensation committee which is composed entirely of independent directors.



## **Table of Contents**

On March 30, 2011, the SEC proposed rules to implement Section 952 of the Dodd-Frank Act regarding the independence of compensation committees and the appointment, payment and oversight of compensation consultants. Under the proposed rules, the SEC provides baseline expectations of listing standards for the national securities exchanges, such as NYSE and NASDAQ, to implement, and continues to leave to the company's board of directors the ultimate determination as to the independence of compensation committee members. The proposed rules require the exchanges to propose listing standards to determine how the following factors, which are essential factors originally cited by the Dodd-Frank Act, along with other factors that the exchanges add, should be considered in evaluation the independence of compensation committee members:

the source of compensation of a member of the board of directors, including any consulting, advisory or other compensatory fees paid by the listed company; and

whether a member of the board of directors has an affiliate relationship with the listed company, a subsidiary of the listed company or an affiliate of a subsidiary of the listed company.

Under the proposed rules, the SEC emphasizes that the foregoing factors are not bright-line prohibitions, and that the exchanges have discretion in establishing their own independence criteria and determining how such factors should be considered.

The SEC's proposed rules also provide that compensation committees may retain compensation consultants and other advisers after taking into account the independence of the advisers. Compensation committees are not precluded from retaining the company's advisers. Compensation committees will, however, be directly responsible for the selection, compensation and oversight of the advisers they choose to engage. Listed companies must provide funding for the retention of these advisers. The proposed rules provide five factors that compensation committees must use in evaluating independence, along with any additional factors that the exchanges may require:

the provision of other services to the listed company by the entity that employs the compensation committee adviser;

the amount of fees received from the listed company by the entity that employs the compensation committee adviser, as a percentage of the total revenue of the entity that employs the compensation committee adviser;

the policies and procedures of the entity that employs the compensation committee adviser that are designed to prevent conflicts of interest;

any business or personal relationship of the compensation committee adviser with a member of the compensation committee; and

any stock of the listed company owned by the compensation committee adviser.

The SEC's proposed rules also include disclosure requirements relating to the use of compensation consultants, which are not subject to the exchange rulemaking process discussed above. The proposed rules require disclosure of:

whether the compensation committee has obtained or retained the advice of a compensation consultant;

whether the use of a compensation consultant raised any conflict of interest; and

if there is a conflict of interest, the nature of the conflict and how the registrant is addressing the conflict.

## Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

The SEC proposes to modify the existing disclosure requirement under Item 407(e) of SEC Regulation S-K so that disclosure in the company's annual proxy statement would be required whenever an issuer's compensation committee retained or obtained the advice of a compensation consultant, regardless of whether a formal engagement or client relationship exists between the consultant and the committee or management, and

## **Table of Contents**

irrespective of any fees being paid. The types of conflicts of interest that would trigger disclosure are not defined under the SEC's proposed rules. Instead, companies must look to the facts and circumstances of the engagement to determine whether a conflict exists, including considering the five independence factors discussed above plus any other factors mandated by the exchanges.

Foreign private issuers that disclose in their annual reports the reasons why they do not have an independent compensation committee are exempt from the compensation committee independence requirements. Although foreign private issuers are not specifically exempted from the application of the proposed compensation consultant rules, the proposed rule provides for U.S. national securities exchanges to have authority to exempt any category of issuers consistent with the compensation committee independence rules. The disclosure requirements under the proposed rules relating to compensation consultants are not expected to be applicable to foreign private issuers that are exempt from preparing and filing proxy statements, which is where the new disclosure is expected to be included.

The U.S. national securities exchanges must issue final listing standards implementing the foregoing within one year after the SEC's proposed rules are finalized and published in the Federal Register. The SEC's proposed rules are not yet final.

No such requirement currently exists under applicable Korean law or listing standards, and we currently do not have a compensation committee.

### ***Corporate Governance Guidelines and Code of Business Conduct and Ethics***

Under the NYSE listing rules, U.S. companies listed on the NYSE are required to establish corporate governance guidelines and to adopt a code of business conduct and ethics for directors, officers and employees, and promptly disclose any waivers of the code for directors or executive officers. As a foreign private issuer, we are exempt from this requirement. Pursuant to the requirements of the Sarbanes-Oxley Act, we have adopted a code of ethics applicable to our President & Chief Executive Officer and all other directors and executive officers including the Chief Financial Officer and the Chief Accounting Officer, as well as all financial, accounting and other officers that are involved in the preparation and disclosure of our consolidated financial statements and internal control of financial reporting pursuant to Section 404 of the Sarbanes-Oxley Act. We have also adopted an insider reporting system in compliance with Section 301 of the Sarbanes-Oxley Act. The code of ethics applicable to our executive officers as well as the financial officers of the holding company and its subsidiaries are available on [www.kepco.co.kr](http://www.kepco.co.kr).

### ***Shareholder Approval of Equity Compensation Plans***

Under the NYSE listing rules, shareholders of U.S. companies listed on the NYSE are required to approve all equity compensation plans. Under Korean law and regulations, stock options can be granted to employees to the extent expressly permitted by the articles of incorporation. We currently do not have any equity compensation plans.

### ***Annual Certification of Compliance***

Under the NYSE listing rules, a chief executive officer of a U.S. company listed on the NYSE must annually certify that he or she is not aware of any violation by the company of NYSE corporate governance standards. As a foreign private issuer, we are not subject to this requirement. However, in accordance with rules applicable to both U.S. companies and foreign private issuers, we are required to promptly notify the NYSE in writing if any executive officer becomes aware of any material noncompliance with the NYSE corporate governance standards applicable to us. In addition, foreign private issuers, including us, are required to submit to the NYSE an annual written affirmation relating to compliance with Sections 303A.06 and 303A.11 of the NYSE listed company manual, which are the NYSE corporate governance standards applicable to foreign private

---

**Table of Contents**

issuers. All written affirmations must be executed in the form provided by the NYSE, without modification. An annual written affirmation is required to be submitted to the NYSE within 30 days of filing with the SEC our annual report on Form 20-F. We have been in compliance with this requirement in all material respects and plan to submit such affirmation within the prescribed time line.

***Whistle Blower Protection***

On May 25, 2011, the SEC adopted final rules to implement whistleblower provisions of the Dodd-Frank Act, which are applicable to foreign private issuers with securities registered under the U.S. securities laws. The final rules provide that any eligible whistleblower who voluntarily provides the SEC with original information that leads to the successful enforcement of an action brought by the SEC under U.S. securities laws must receive an award of between 10 and 30 percent of the total monetary sanctions collected if the sanctions exceed \$1,000,000. An eligible whistleblower is defined as someone who provides information about a possible violation of the securities laws that he or she reasonably believes has occurred, is ongoing, or is about to occur. The possible violation does not need to be material, probably or even likely, but the information must have a facially plausible relationship to some securities law violation ; frivolous submissions would not qualify. The final rules also prohibit retaliation against the whistleblower. While the final rules do not require employees to first report allegations of wrongdoing through a company s corporate compliance system, they do seek to incentivize whistleblowers to utilize internal corporate compliance first by, among other things, (i) giving employees who first report information internally the benefit of the internal reporting date for purposes of the SEC program so long as the whistleblower submits the same information to the SEC within 120 days of the initial disclosure; (ii) clarifying that the SEC will consider, as part of the criteria for determining the amount of a whistleblower s award, whether the whistleblower effectively utilized the company s corporate compliance program or hindered the function of the program; and (iii) crediting a whistleblower who reports internally first and whose company passes the information along to the SEC, which would mean the whistleblower could receive a potentially higher award for information gathered in an internal investigation initiated as a result of the whistleblower s internal report.

In addition, the final rules address concerns that the whistleblower rules incentivize officers, directors and those with legal, audit, compliance or similar responsibilities to abuse these positions by making whistleblower complaints to the SEC with respect to information they obtained in these roles by generally providing that information obtained through a communication subject to attorney-client privilege or as a result of legal representation would not be eligible for a whistleblower award unless disclosure would be permitted by attorney conduct rules. Accordingly, officers and directors, auditors and compliance personnel and other persons in similar roles would not be eligible to receive awards for information received in these positions unless (x) they have a reasonable basis to believe that (1) disclosure of the information is necessary to prevent the entity from engaging in conduct that is likely to cause substantial injury to the financial interests of the entity or investors; or (2) the entity is engaging in conduct that will impede an investigation of the misconduct, for example, destroying documents or improperly influencing witnesses; or (y) 120 days has passed since the whistleblower provided the information to senior responsible persons at the entity or 120 days has passed since the whistleblower received the information at a time when these people were already aware of the information.

In Korea, there is no corresponding law or regulation.

**ITEM 16H. MINE SAFETY DISCLOSURE**

Not applicable.

**Table of Contents**

**PART III**

**ITEM 17. FINANCIAL STATEMENTS**

Not applicable.

**ITEM 18. FINANCIAL STATEMENTS**

Reference is made to Item 19 Exhibits for a list of all financial statements and schedules filed as part of this report.

**ITEM 19. EXHIBITS**

**(a) Financial Statements filed as part of this Annual Report**

See Index to Financial Statements on page F-1 of this report.

**(b) Exhibits filed as part of this Annual Report**

See Index of Exhibits beginning on page E-1 of this report.

**Table of Contents**

**SIGNATURES**

The registrant hereby certifies that it meets all of the requirements for filing on Form 20-F and that it has duly caused and authorized the undersigned to sign this Annual Report on its behalf.

**KOREA ELECTRIC POWER CORPORATION**

By: /s/ Kim, Joong-Kyum  
Name: **Kim, Joong-Kyum**  
Title: **President and Chief Executive Officer**  
Date: **April 30, 2012**

**Table of Contents**

**INDEX TO FINANCIAL STATEMENTS**

	<b>Page</b>
<u>Index to Financial Statements</u>	F-1
<u>Report of Independent Registered Public Accounting Firm Deloitte Anjin LLC on Consolidated Financial Statements</u>	F-2
<u>Report of Independent Registered Public Accounting Firm Deloitte Anjin LLC on Internal Control Over Financial Reporting</u>	F-3
<u>Report of Independent Registered Public Accounting Firm Ernst &amp; Young Han Young (Korea South-East Power Co., Ltd.)</u>	F-5
<u>Report of Independent Registered Public Accounting Firm Ernst &amp; Young Han Young on Internal Control Over Financial Reporting (Korea South-East Power Co., Ltd.)</u>	F-6
<u>Consolidated Statements of Financial Position as of December 31, 2011, December 31, 2010 and January 1, 2010</u>	F-7
<u>Consolidated Statements of Comprehensive Income for the Years Ended December 31, 2011 and 2010</u>	F-9
<u>Consolidated Statements of Changes in Equity for the Years Ended December 31, 2011 and 2010</u>	F-11
<u>Consolidated Statements of Cash Flows for the Years Ended December 31, 2011 and 2010</u>	F-12
<u>Notes to the Consolidated Financial Statements</u>	F-14

**Table of Contents**

**REPORT OF INDEPENDENT REGISTERED PUBLIC**

**ACCOUNTING FIRM ON CONSOLIDATED FINANCIAL STATEMENTS**

To the Shareholders and Board of Directors of

Korea Electric Power Corporation:

We have audited the accompanying consolidated statements of financial position of Korea Electric Power Corporation and subsidiaries (collectively referred to as the Company ) as of December 31, 2011, December 31, 2010 and January 1, 2010, and the related consolidated statements of comprehensive income, changes in equity and cash flows, all expressed in Korean Won, for each of the two years in the period ended December 31, 2011. These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these consolidated financial statements based on our audits. We did not audit the financial statements of certain consolidated subsidiaries whose financial statements reflect 4.4, 5.0 and 5.1 percent of consolidated total assets as of December 31, 2011, December 31, 2010 and January 1, 2010, respectively, and 10.1 and 10.5 percent of consolidated total revenue for each of the two years in the period ended December 31, 2011. Those statements were audited by other auditors whose report has been furnished to us, and our opinion, insofar as it relates to the amounts included for Korea South-East Power Co., Ltd., is based solely on the report of the other auditors.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits and the report of the other auditors provide a reasonable basis for our opinion.

In our opinion, based on our audits and the report of the other auditors, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of Korea Electric Power Corporation and subsidiaries as of December 31, 2011, December 31, 2010 and January 1, 2010, and the results of their operations and their cash flows for each of the two years in the period ended December 31, 2011 in conformity with the International Financial Reporting Standards as issued by International Accounting Standard Board.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the Company's internal control over financial reporting as of December 31, 2011, based on the criteria established in *Internal Control Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated April 30, 2012 expressed an unqualified opinion on the Company's internal control over financial reporting based on our audit and the report of the other auditors.

/s/ Deloitte Anjin LLC

Seoul, Korea

April 30, 2012



**Table of Contents**

**REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM ON  
INTERNAL CONTROL OVER FINANCIAL REPORTING**

To the Shareholders and Board of Directors of

Korea Electric Power Corporation:

We have audited Korea Electric Power Corporation and subsidiaries (collectively referred to as the Company) internal control over financial reporting as of December 31, 2011, based on criteria established in Internal Control Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission. The Company's management is responsible for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying Management's Report on Internal Control Over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We did not examine the effectiveness of internal control over financial reporting of certain subsidiaries whose financial statements reflect total assets and revenues constituting 4.4 percent and 10.1 percent, respectively, of the related consolidated financial statement amounts as of and for the year ended December 31, 2011. The effectiveness of certain consolidated subsidiaries internal control over financial reporting was audited by other auditors whose report has been furnished to us, and our opinion, insofar as it relates to the effectiveness of certain consolidated subsidiaries internal control over financial reporting, is based solely on the report of the other auditors.

We conducted our audit in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of the inherent limitations of internal control over financial reporting, including the possibility of collusion or improper management override of controls, material misstatements due to error or fraud may not be prevented or detected on a timely basis. Also, projections of any evaluation of the effectiveness of the internal control over financial reporting to future periods are subject to the risk that the controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

In our opinion, based on our audit and the report of the other auditors, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2011, based on the criteria established in Internal Control Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission.

**Table of Contents**

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the consolidated financial statements as of and for the year ended December 31, 2011, all expressed in Korean Won, of the Company and our report dated April 30, 2012 expressed an unqualified opinion on those financial statements based on our audit and report of the other auditors.

/s/ Deloitte Anjin LLC

Seoul, Korea

April 30, 2012

F-4

**Table of Contents**

**Report of Independent Registered Public Accounting Firm**

The Board of Directors and Stockholder

Korea South-East Power Co., Ltd.

We have audited the accompanying consolidated statements of financial position of Korea South-East Power Co., Ltd. (the Company) and its subsidiaries (the Group) as of December 31, 2011 and 2010, and January 1, 2010, and the related consolidated statements of comprehensive income, changes in equity and cash flows for each of the years ended in the period ended December 31, 2011. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audit in accordance with standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the consolidated financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provide a reasonable basis for our opinion.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the consolidated financial position of the Company as of December 31, 2011 and 2010, and January 1, 2010 and the consolidated results of their operations and their cash flows for the years ended December 31, 2011 and 2010, in conformity with International Financial Reporting Standards as issued by International Accounting Standard Board.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), Korea South-East Power Co., Ltd.'s internal control over financial reporting as of December 31, 2011, based on criteria established in Internal Control Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated April 27, 2012 expressed an unqualified opinion thereon.

/s/ Ernst & Young Han Young

April 27, 2012

Seoul, Republic of Korea

---

**Table of Contents**

**Report of Independent Registered Public Accounting Firm**

To the Board of Directors and Stockholder of

Korea South-East Power Co., Ltd.

We have audited Korea South-East Power Co., Ltd. (the Company) and its subsidiaries (the Group) internal control over financial reporting as of December 31, 2011, based on criteria established in Internal Control Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (the COSO criteria). Korea South-East Power Co., Ltd.'s management is responsible for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting. Our responsibility is to express an opinion on the company's internal control over financial reporting based on our audit.

We conducted our audit in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

In our opinion, Korea South-East Power Co., Ltd. maintained, in all material respects, effective internal control over financial reporting as of December 31, 2011, based on the COSO criteria.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the accompanying consolidated statements of financial position of Korea South-East Power Co., Ltd. (the Company) and its subsidiaries (the Group) as of December 31, 2011 and 2010, and January 1, 2010, and the related consolidated statements of comprehensive income, changes in equity and cash flows for each of the years ended in the period ended December 31, 2011, and our report dated April 27, 2012 expressed an unqualified opinion thereon.

/s/ Ernst & Young Han Young

April 27, 2012

Seoul, Republic of Korea

**Table of Contents****KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES****CONSOLIDATED STATEMENTS OF FINANCIAL POSITION****AS OF DECEMBER 31, 2011, DECEMBER 31, 2010 AND JANUARY 1, 2010**

	Notes	Dec. 31, 2011	Dec. 31, 2010 (KRW in millions)	Jan. 1, 2010
<b>ASSETS</b>				
<b>CURRENT ASSETS:</b>				
Cash and cash equivalents	6,7,8,38,44	(Won) 1,387,921	(Won) 2,090,051	(Won) 1,475,684
Current financial assets, net	6,11,12,13,38,44	770,539	723,422	763,751
Accounts and other receivables, net	6,9,15,38,44,46	7,632,497	6,612,377	5,982,542
Inventories, net	14	3,851,751	3,483,415	3,461,429
Income tax receivables	40	35,801	3,007	6,841
Current non-financial assets	16	447,393	244,130	159,448
		14,125,902	13,156,402	11,849,695
<b>NON-CURRENT ASSETS:</b>				
Non-current financial assets, net	6,7,10,11,12,13,38,44	2,199,032	2,457,432	1,806,109
Non-current accounts and other receivables, net	6,9,15,38,44,46	1,284,532	846,318	1,026,130
Property, plant and equipment, net	19,48	112,384,881	107,406,466	102,751,572
Investment properties, net	20	517,149	533,166	507,959
Intangible assets, net	22	848,709	923,136	501,136
Investments in joint ventures	5,18	767,202	275,321	195,595
Investments in associates	5,18	3,718,154	3,490,510	3,284,215
Deferred tax assets	40	372,478	151,870	399,822
Non-current non-financial assets	16	249,811	277,173	295,800
		122,341,948	116,361,392	110,768,338
<b>Total Assets</b>	<b>5</b>	<b>(Won) 136,467,850</b>	<b>(Won) 129,517,794</b>	<b>(Won) 122,618,033</b>
<b>LIABILITIES</b>				
<b>CURRENT LIABILITIES:</b>				
Accounts and other payables, net	6,23,25,39,44,46	6,576,158	4,571,145	4,166,228
Short-term borrowings	6,24,39,44	1,173,568	457,931	592,875
Current financial liabilities, net	6,12,24,39,44,46	5,852,342	6,324,952	5,631,972
Income tax payables	40	505,154	257,563	83,487
Current non-financial liabilities	28,29	3,541,562	2,383,303	1,828,701
Current provisions	27,44	92,383	77,279	65,758
		17,741,167	14,072,173	12,369,021
<b>NON-CURRENT LIABILITIES:</b>				
Non-current accounts and other payables, net	6,23,25,39,44,46	4,178,137	5,280,924	5,245,490
Non-current financial liabilities, net	6,12,24,39,44,46	39,403,578	33,052,466	28,034,241
Non-current non-financial liabilities	28,29	5,611,010	5,221,856	5,251,182
Employee benefits obligations, net	26,44	1,942,994	1,964,155	1,985,131
Deferred tax liabilities, net	40	6,786,779	6,307,322	6,463,994

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Non-current provisions	27,44	7,000,235	6,342,361	5,981,636
		64,922,733	58,169,084	52,961,674
Total Liabilities	5	82,663,900	72,241,257	65,330,695

(Continued)

F-7

**Table of Contents**

**KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES**  
**CONSOLIDATED STATEMENTS OF FINANCIAL POSITION (CONTINUED)**  
**AS OF DECEMBER 31, 2011, DECEMBER 31, 2010 AND JANUARY 1, 2010**

	Notes	Dec. 31, 2011	Dec. 31, 2010 (KRW in millions)	Jan. 1, 2010
<b><u>EQUITY</u></b>				
<b>CONTRIBUTED CAPITAL:</b>				
Shares issued	1,30	(Won) 3,209,820	(Won) 3,207,839	(Won) 3,207,839
Share premium	30	843,758	835,140	835,140
		4,053,578	4,042,979	4,042,979
<b>RETAINED EARNINGS:</b>				
Legal reserves	32	1,603,919	1,603,919	1,603,919
Voluntary reserves	31	21,766,678	21,828,100	21,905,812
Retained earnings before appropriations	31,32	12,398,497	15,864,213	15,987,364
		35,769,094	39,296,232	39,497,095
<b>OTHER COMPONENTS OF EQUITY:</b>				
Other capital surpluses	33	639,028	569,630	471,708
Cumulative other comprehensive income	6	255,095	355,626	306,235
Treasury stocks	33	(741,489)	(741,489)	(741,489)
Other equity	33	13,294,990	13,295,000	13,295,000
		13,447,624	13,478,767	13,331,454
<b>EQUITY ATTRIBUTABLE TO OWNERS OF THE COMPANY</b>		<b>53,270,296</b>	<b>56,817,978</b>	<b>56,871,528</b>
<b>NON-CONTROLLING INTERESTS</b>		<b>533,654</b>	<b>458,559</b>	<b>415,810</b>
<b>Total Equity</b>	<b>44</b>	<b>53,803,950</b>	<b>57,276,537</b>	<b>57,287,338</b>
<b>Total Liabilities and Equity</b>		<b>(Won) 136,467,850</b>	<b>(Won) 129,517,794</b>	<b>(Won) 122,618,033</b>

See accompanying notes to consolidated financial statements.

**Table of Contents****KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES****CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME****FOR THE YEARS ENDED DECEMBER 31, 2011 AND 2010**

	Notes	2011 (KRW in millions except per share amounts)	2010
<b>SALES</b>			
Sales of goods	5,34,44,46	(Won) 41,754,554	(Won) 38,004,325
Sales of service	5,34,44,46	322,616	747,044
Sales of construction contracts	5,21,34,44,46	1,455,132	755,213
		43,532,302	39,506,582
<b>COST OF SALES</b>			
Cost of sales of goods	5,14,42,26	41,283,628	35,021,668
Cost of sales of service	5,14,42,26	393,049	414,672
Cost of sales of construction contracts	5,14,42,26	1,405,302	750,897
		43,081,979	36,187,237
<b>GROSS PROFIT</b>			
		450,323	3,319,345
<b>OTHER OPERATING INCOME</b>			
	36	598,303	536,915
<b>SELLING AND ADMINISTRATIVE EXPENSES</b>			
	5,35,42,46	1,751,697	1,644,760
<b>OTHER OPERATING EXPENSES</b>			
	5,36	147,595	69,787
<b>OTHER INCOME(LOSS)</b>			
	37	165,703	118,207
<b>OPERATING INCOME(LOSS)</b>			
	5,41	(684,963)	2,259,920
<b>FINANCE INCOME</b>			
	6,12,38	607,592	591,491
<b>FINANCE EXPENSES</b>			
	6,12,39	2,518,850	2,558,425
<b>PROFITS OF ASSOCIATES AND JOINT VENTURES USING EQUITY METHOD</b>			
		123,095	76,626
Share in income of associates and joint ventures		162,513	160,314
Gain on disposal of associates and joint ventures		3,147	25,975
Share in loss of associates and joint ventures		42,115	56,246
Loss on disposal of associates and joint ventures		450	53,417
<b>INCOME (LOSS) BEFORE INCOME TAX</b>			
		(2,473,126)	369,612
<b>INCOME TAX EXPENSE</b>			
	40	819,871	438,779
<b>NET LOSS FOR THE YEAR</b>			
		(Won) (3,292,997)	(Won) (69,167)

(Continued)



**Table of Contents**

**KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES**  
**CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (CONTINUED)**  
**FOR THE YEARS ENDED DECEMBER 31, 2011 AND 2010**

	2011	2010
	(KRW in millions except per share amounts)	
<b>OTHER COMPREHENSIVE INCOME (LOSS)</b>		
Net change in fair value of available-for-sale financial assets, net of tax	(174,958)	124,464
Loss on valuation of derivatives using of cash flow hedge accounting, net of tax	6,12 (27,999)	(35,005)
Actuarial losses on retirement benefit obligations	26 (152,196)	(85,605)
Share in other comprehensive income(loss) of associates and joint ventures, net of tax	45,860	(34,297)
Foreign currency translation of foreign operations, net of tax	47,135	(12,124)
	(262,158)	(42,567)
<b>TOTAL COMPREHENSIVE LOSS FOR THE YEAR</b>	(Won) (3,555,155)	(Won) (111,734)
<b>NET INCOME(LOSS) ATTRIBUTABLE TO;</b>		
Owners of the Company	(3,370,464)	(119,931)
Non-controlling interests	77,467	50,764
	(Won) (3,292,997)	(Won) (69,167)
<b>TOTAL COMPREHENSIVE INCOME ATTRIBUTABLE TO;</b>		
Owners of the Company	(3,627,669)	(151,472)
Non-controlling interests	72,514	39,738
	(Won) (3,555,155)	(Won) (111,734)
<b>EARNINGS PER SHARE;</b>		
Basic earnings per share	43 (Won) (5,411)	(Won) (193)
Diluted earnings per share	43 (Won) (5,411)	(Won) (193)

See accompanying notes to consolidated financial statements.

**Table of Contents****KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES****CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY****FOR THE YEARS ENDED DECEMBER 31, 2011 AND 2010**

	Contributed capital	Retained earnings	Other components of equity (KRW in millions)	Equity attributable to owners of the Company	Non- controlling interest	Total Equity
Balance at January 1, 2010	(Won) 4,042,979	(Won) 39,497,095	(Won) 13,331,454	(Won) 56,871,528	(Won) 415,810	(Won) 57,287,338
Total comprehensive income:						
Net (income) loss for the period		(119,931)		(119,931)	50,764	(69,167)
Net change in fair value of available-for-sale financial assets, net of tax			124,322	124,322	142	124,464
Loss on valuation of derivatives using cash flow hedge accounting, net of tax			(35,005)	(35,005)		(35,005)
Actuarial losses on retirement benefit obligations, net of tax		(78,876)		(78,876)	(6,729)	(85,605)
Share in other comprehensive income (loss) of a associates and joint ventures, net of tax		(2,056)	(32,241)	(34,297)		(34,297)
Foreign currency translation of foreign operations, net of tax			(7,685)	(7,685)	(4,439)	(12,124)
Dividends paid					(35,740)	(35,740)
Capital increase in subsidiaries					16,476	16,476
Change due to acquisition and disposal of subsidiaries			97,922	97,922	22,299	120,221
Others					(24)	(24)
Balance at December 31, 2010	(Won) 4,042,979	(Won) 39,296,232	(Won) 13,478,767	(Won) 56,817,978	(Won) 458,559	(Won) 57,276,537
Balance at January 1, 2011	(Won) 4,042,979	(Won) 39,296,232	(Won) 13,478,767	(Won) 56,817,978	(Won) 458,559	(Won) 57,276,537
Total comprehensive income:						

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Net (income) loss for the period		(3,370,464)		(3,370,464)	77,467	(3,292,997)
Net change in fair value of available-for-sale financial assets, net of tax			(174,937)	(174,937)	(21)	(174,958)
Loss on valuation of derivatives using cash flow hedge accounting, net of tax			(18,648)	(18,648)	(9,351)	(27,999)
Actuarial losses on retirement benefit obligations, net of tax		(151,672)		(151,672)	(524)	(152,196)
Share in other comprehensive income (loss) of associates and joint ventures, net of tax		(5,002)	50,881	45,879	(19)	45,860
Foreign currency translation of foreign operations, net of tax			42,173	42,173	4,962	47,135
Dividends paid					(44,663)	(44,663)
Capital increase	10,599			10,599	3,187	13,786
Change due to acquisition and disposal of subsidiaries			69,388	69,388	42,991	112,379
Others					1,066	1,066
Balance at December 31, 2011	(Won) 4,053,578	(Won) 35,769,094	(Won) 13,447,624	(Won) 53,270,296	(Won) 533,654	(Won) 53,803,950

See accompanying notes to consolidated financial statements.

**Table of Contents****KOREA ELECTRIC POWER CORPORATION SUBSIDIARIES****CONSOLIDATED STATEMENTS OF CASH FLOWS****FOR THE YEARS ENDED DECEMBER 31, 2011 AND 2010**

	2011	2010
	(KRW in millions)	
<b>CASH FLOWS FROM OPERATING ACTIVITIES:</b>		
Net loss for the period	(Won) (3,292,997)	(Won) (69,167)
Adjustments for:		
Income tax expense	819,871	438,779
Depreciation	6,782,661	6,579,220
Amortization of intangible assets	94,729	117,444
Retirement benefit expense, net	341,902	341,210
Bad debt expense	15,136	13,569
Interest expense	2,123,579	2,045,684
Loss on disposal of property, plant, and equipment	31,228	46,882
Loss on abandonment of property, plant, and equipment	296,557	219,911
Impairment loss on intangible assets	221	451
Accretion expense to provisions, net	433,374	139,969
Loss (gain) on foreign currency translation, net	226,012	(110,158)
Valuation and transaction loss (gain) on derivative instrument, net	(75,307)	196,334
Share in income of associates and joint ventures, net	(120,398)	(104,068)
Gain on disposal of property, plant and equipment	(38,776)	(42,037)
Loss (gain) on disposal of associates and joint ventures, net	(2,699)	27,443
Interest income	(291,625)	(120,422)
Dividends income	(18,894)	(3,341)
Other losses (gains), net	47,998	55,308
	10,665,569	9,842,178
<b>Changes in operating assets and liabilities:</b>		
Increase in accounts receivables	(1,021,781)	(539,781)
Increase in non-trade receivables	(45,009)	(24,369)
Decrease (increase) in accrued income	26,205	(6,038)
Increase in other receivables		(2,936)
Increase in other current assets	(154,062)	(111,388)
Increase in inventories	(1,411,785)	(875,476)
Decrease in other non-current assets	21,823	431,576
Increase in account payables	710,831	511,311
Increase (decrease) in non-trade payables	(7,882)	113,467
Increase in accrued expenses	30,386	154,231
Increase in other current liabilities	1,204,974	262,503
Increase in other non-current liabilities	525,996	97,803
Decrease in associates and joint ventures	62,169	35,488
Decrease in provisions	(289,237)	(330,195)
Payments of retirement benefit obligations	(345,774)	(401,143)
Increase in plan assets	(291,339)	(96,751)
	(984,485)	(781,698)
	6,388,087	8,991,313

(Continued)

F-12

**Table of Contents****KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES****CONSOLIDATED STATEMENTS OF CASH FLOWS (CONTINUED)****FOR THE YEARS ENDED DECEMBER 30, 2011 AND 2010**

	2011	2010
	(KRW in millions)	
	(Won)	(Won)
Interest received	247,711	168,014
Interest paid	(2,196,429)	(2,272,028)
Dividends received	18,894	3,427
Income tax paid	(313,534)	(150,636)
<b>Net cash provided by operating activities</b>	<b>4,144,729</b>	<b>6,740,090</b>
<b>CASH FLOWS FROM INVESTING ACTIVITIES:</b>		
Disposal of associates and joint ventures	10,136	35,412
Acquisition of associates and joint ventures	(491,293)	(756,443)
Disposal of property, plant and equipment	50,578	100,325
Acquisition of property, plant and equipment	(10,610,402)	(10,184,037)
Disposal of intangible assets	467	198
Acquisition of intangible assets	(42,599)	(470,413)
Disposal of investment properties	523	
Disposal of financial assets	856,021	295,844
Acquisition of financial assets	(840,852)	(564,832)
Decrease (increase) in loans, net	(29,574)	(203,545)
Increase (decrease) in deposits received, net	(53,042)	91
Receipt of government grants, net	47,903	27,589
Net cash outflow from acquisition of subsidiaries	(65,147)	(40,862)
Other cash outflow from investing activities, net	(28,412)	(233,476)
<b>Net cash provided by investing activities</b>	<b>(11,195,693)</b>	<b>(11,994,149)</b>
<b>CASH FLOWS FROM FINANCING ACTIVITIES:</b>		
Proceeds from short-term borrowings, net	114,015	(348,216)
Proceeds from long-term borrowings and debentures	12,100,107	11,654,394
Repayment of long-term borrowings and debentures	(5,880,330)	(5,786,761)
Payment of financial lease	(136,760)	(123,773)
Settlement of derivative instruments, net	51,916	350,404
Proceeds on disposal of partial interest in a subsidiary that does not involve loss of control	100,691	149,579
Change in non-controlling interest	36,142	16,071
Dividends paid	(44,663)	(35,740)
Other cash inflow (outflow) from financing activities, net	297	(6,290)
<b>Net cash provided by financing activities</b>	<b>6,341,415</b>	<b>5,869,668</b>
<b>EFFECTS OF EXCHANGE RATE CHANGES</b>	<b>7,419</b>	<b>(1,242)</b>
<b>NET INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS</b>	<b>(702,130)</b>	<b>614,367</b>
<b>CASH AND CASH EQUIVALENTS, BEGINNING OF THE PERIOD</b>	<b>2,090,051</b>	<b>1,475,684</b>
<b>CASH AND CASH EQUIVALENTS, END OF THE PERIOD</b>	<b>(Won) 1,387,921</b>	<b>(Won) 2,090,051</b>

See accompanying notes to consolidated financial statements



**Table of Contents**

**KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES**

**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**

**1. GENERALS:**

Korea Electric Power Corporation ( KEPCO ) was incorporated on January 1, 1982 in accordance with the Korea Electric Power Corporation Act (the KEPCO Act ) to engage in the generation, transmission and distribution of electricity and development of electric power resources in the Republic of Korea. The Company's stock was listed on the Korea Stock Exchange on August 10, 1989 and the Company listed its Depository Receipts (DR) on the New York Stock Exchange on October 27, 1994.

As of December 31, 2011, the Government of the Republic of Korea (Government), Korea Finance Corporation ( KoFC ) which is wholly owned by the Government, and foreign investors held 21.17%, 29.94%, and 23.38%, respectively, of the Company's shares.

On January 21, 1999, in accordance with the restructuring plan by the Ministry of Knowledge Economy (the MKE ) (the Restructuring Plan ), on April 2, 2001 KEPCO spun off its power generation divisions, resulting in the establishment of six power generation subsidiaries.

In addition, the Government established a Tripartite Commission consisting of representatives of the Government, leading businesses and labor unions in Korea to deliberate on ways to introduce competition in electricity distribution, such as by forming and privatizing new distribution subsidiaries. Meanwhile, on June 30, 2004, the privatization initiatives were discontinued, instead independent business divisions for distribution within the Company were created to improve operational efficiency through internal competition. These business divisions have separate management structures, financial accounting systems and performance evaluation systems, but with a common focus on maximizing profitability.

**2. SIGNIFICANT ACCOUNTING POLICIES:**

**(1) Basis of Preparation**

The Company maintains its official accounting records in Republic of Korean won ( Won ) and prepares consolidated financial statements in conformity with International Financial Reporting Standards ( IFRS ) as issued by International Accounting Standard Board ( IASB ). The Company has adopted IFRS as issued by IASB for the annual period beginning on January 1, 2011. In accordance with IFRS 1 First-time adoption of IFRS, the Company's transition date to IFRS is January 1, 2010. Refer to Note 4, for transition adjustments to IFRS.

The significant accounting policies under IFRS followed by the Company in the preparation of its consolidated financial statements are summarized below. Unless stated otherwise, these accounting policies have been applied consistently to the financial statements for the current period and accompanying comparative period.

The consolidated financial statements have been prepared on the historical cost basis except for certain non-current assets and financial instruments that are measured at revalued amounts or fair values, as explained in the accounting policies below. Historical cost is based on the fair value of the consideration given in exchange for assets.



## **Table of Contents**

The Company has not adopted following amendments which are not yet effective as of December 31, 2011.

### *IFRS 7 Financial Instruments: Disclosures (amended) Disclosures About Transfers Of Financial Instrument*

Above amendment requires additional disclosures for financial instruments that are transferred but not derecognized in their entirety, and additional disclosures about continuing involvement in the derecognized financial instruments. Above amendments will be applied from the financial year beginning after July 1, 2011.

### *IAS 12 Income taxes (amended) Deferred tax: Collection Of Underlying Asset*

Above amendment provides a practical solution about assessing whether recovery of the carrying amount of underlying assets would be through sale or use. The amendment requires that if the underlying assets are investment properties carried at fair value method, or properties measured at revaluation model, which is in IAS 16, the entity can presume that recovery of the carrying amount will be through sale.

Above amendments will be applied from the financial year beginning after January 1, 2012.

### *IAS 19 Employee benefits (amended)*

Above amendment requires immediate recognition of all estimated changes in the cost of providing defined benefits and all changes in the value of plan assets. This would eliminate the various methods currently in IAS 19, including the corridor method, that allowed deferral of some of those gains or losses.

Above amendments will be applied from the financial year beginning after January 1, 2013.

### *IFRS 13 Fair value measurement*

IFRS 13 provide a single standard about fair value measurement. Above statement will be applied from the financial year beginning after January 1, 2013.

As of December 31, 2011, the Company does not expect the above amendments will have significant impact on its consolidated financial statements.

On February 22, 2011, the board of directors approved the Company's current year consolidated financial statements for its annual shareholder's meeting.

Major accounting policies used for the preparation of the consolidated financial statements are stated below.

#### (2) Basis of Consolidation

The consolidated financial statements incorporate the financial statements of the Company and entities (including special purpose entities) controlled by the Company (or its subsidiary). Control is achieved where the Company has the power to govern the financial and operating policies of an entity so as to obtain benefits from its activities.

Income and expenses of a subsidiary acquired or disposed of during the year are included in the consolidated statement of comprehensive income from the effective date of acquisition and up to the effective date of disposal, as appropriate. Total comprehensive income of subsidiaries is attributed to the owners of the Company and to the non-controlling interests even if this results in the non-controlling interests having a deficit balance.

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

When necessary, adjustments are made to the financial statements of subsidiaries to bring their accounting policies into line with those used the Company.

F-15

---

**Table of Contents**

All intra-group transactions, balances, income and expenses are eliminated in full upon consolidation for the years ended December 31, 2011 and 2010

Changes in the Company's ownership interests in a subsidiary that do not result in the Company losing control over the subsidiary are accounted for as equity transactions. The carrying amounts of the Company's interests and the non-controlling interests are adjusted to reflect the changes in their relative interests in the subsidiary. Any difference between the amount by which the non-controlling interests are adjusted and the fair value of the consideration paid or received is recognized directly in equity and attributed to owners of the Company.

When the Company loses control of a subsidiary, the income or loss on disposal is calculated as the difference between (i) the aggregate of the fair value of the consideration received and the fair value of any retained interest and (ii) the previous carrying amount of the assets (including goodwill), and liabilities of the subsidiary and any non-controlling interests. When assets of the subsidiary are carried at revalued amounts or fair values and the related cumulative gain or loss has been recognized in other comprehensive income and accumulated in equity, the amounts previously recognized in other comprehensive income and accumulated in equity are accounted for as if the Company had directly disposed of the relevant assets (i.e. reclassified to income or loss or transferred directly to retained earnings). The fair value of any investment retained in the former subsidiary at the date when control is lost is recognized as the fair value on initial recognition for subsequent accounting under IAS 39 *Financial Instruments: Recognition and Measurement* or, when applicable, the cost on initial recognition of an investment in an associate or a jointly controlled entity.

(3) Business Combination

Acquisitions of businesses are accounted for using the acquisition method. The consideration transferred in a business combination is measured at fair value, which is calculated as the sum of the acquisition-date fair values of the assets transferred by the Company, liabilities incurred by the Company to the former owners of the acquiree and the equity interests issued by the Company in exchange for control of the acquiree. Acquisition-related costs are generally recognized in income or loss as incurred.

At the acquisition date, the identifiable assets acquired and the liabilities assumed are recognized at their fair value at the acquisition date, except that:

deferred tax assets or liabilities and liabilities or assets related to employee benefit arrangements are recognized and measured in accordance with IAS 12 *Income Taxes* and IAS 19 *Employee Benefits* respectively;

Assets (or disposal groups) that are classified as held for sale in accordance with IFRS 5 *Non-current Assets Held for Sale and Discontinued Operations* are measured in accordance with that standard.

Goodwill is measured as the excess of the sum of the consideration transferred, the amount of any non-controlling interests in the acquiree, and the fair value of the acquirer's previously held equity interest in the acquiree (if any) over the net of the acquisition-date amounts of the identifiable assets acquired and the liabilities assumed. If, after reassessment, net of the acquisition-date amounts of the identifiable assets acquired and liabilities assumed exceeds the sum of the consideration transferred, the amount of any non-controlling interests in the acquiree and the fair value of the acquirer's previously held interest in the acquiree (if any), the excess is recognized immediately in income or loss as a bargain purchase gain.

Non-controlling interest that is present on acquisition day and if it entitles the holder to a proportionate share of the entity's net assets in an event of a liquidation, the non-controlling interest may be initially measured either at fair value or at the non-controlling interest's proportionate share of the recognized amounts of the acquiree's identifiable net assets. The choice of measurement can be elected on a transaction-by-transaction basis. Other types of non-controlling interests are measured at fair value or, when applicable, on the basis specified in other IFRS.

## **Table of Contents**

When the consideration transferred by the Company in a business combination includes assets or liabilities resulting from a contingent consideration arrangement, the contingent consideration is measured at its acquisition-date fair value and included as part of the consideration transferred in a business combination. Changes in the fair value of the contingent consideration that qualify as measurement period adjustments are adjusted retrospectively, with corresponding adjustments against goodwill. Measurement period adjustments are adjustments that arise from additional information obtained during the measurement period (which cannot exceed one year from the acquisition date) about facts and circumstances that existed at the acquisition date.

The subsequent accounting for changes in the fair value of the contingent consideration that do not qualify as measurement period adjustments depends on how the contingent consideration is classified. Contingent consideration that is classified as equity is not remeasured at subsequent reporting dates and its subsequent settlement is accounted for within equity. Contingent consideration that is classified as an asset or a liability is remeasured at subsequent reporting dates in accordance with IAS 39 *Financial Instruments: Recognition and Measurement*, or IAS 37 *Provisions, Contingent Liabilities and Contingent Assets*, as appropriate, with the corresponding gain or loss being recognized in income or loss.

When a business combination is achieved in stages, the Company's previously held equity interest in the acquiree is remeasured to fair value at the acquisition date (i.e. the date when the Company obtains control) and the resulting gain or loss, if any, is recognized in income or loss. Amounts arising from interests in the acquiree prior to the acquisition date that have previously been recognized in other comprehensive income are reclassified to income or loss where such treatment would be appropriate if that interest were disposed of.

If the initial accounting for a business combination is incomplete by the end of the reporting period in which the combination occurs, the Company reports provisional amounts for the items for which the accounting is incomplete. Those provisional amounts are adjusted during the measurement period (see above), or additional assets or liabilities are recognized, to reflect new information obtained about facts and circumstances that existed at the acquisition date that, if known, would have affected the amounts recognized at that date.

#### (4) Investments in associates (Equity-accounted investees)

An associate is an entity over which the Company has significant influence and that is neither a subsidiary nor an interest in a joint venture. Significant influence is the power to participate in the financial and operating policy decisions of the investee but is not control or joint control over those policies.

The results and assets and liabilities of associates are incorporated in these consolidated financial statements using the equity method of accounting, except when the investment is classified as held for sale, in which case it is accounted for in accordance with IFRS 5 *Non-current Assets Held for Sale and Discontinued Operations*. Under the equity method, an investment in an associate is initially recognized in the consolidated statement of financial position at cost and adjusted thereafter to recognize the Company's share of the income or loss and other comprehensive income of the associate. When the Company's share of losses of an associate exceeds the Company's interest in that associate (which includes any long-term interests that, in substance, form part of the Company's net investment in the associate), the Company discontinues recognizing its share of further losses. Additional losses are recognized only to the extent that the Company has incurred legal or constructive obligations or made payments on behalf of the associate.

Any excess of the cost of acquisition over the Company's share of the net fair value of the identifiable assets, liabilities and contingent liabilities of an associate recognized at the date of acquisition is recognized as goodwill, which is included within the carrying amount of the investment. Any excess of the Company's share of the net fair value of the identifiable assets, liabilities and contingent liabilities over the cost of acquisition, after reassessment, is recognized immediately in income or loss.

## Table of Contents

The requirements of IAS 39 *Financial Instruments: Recognition and Measurement* are applied to determine whether it is necessary to recognize any impairment loss with respect to the Company's investment in an associate. When necessary, the entire carrying amount of the investment (including goodwill) is tested for impairment in accordance with IAS 36 *Impairment of Assets* as a single asset by comparing its recoverable amount (higher of value in use and fair value less costs to sell) with its carrying amount, any impairment loss recognized forms part of the carrying amount of the investment. Any reversal of that impairment loss is recognized in accordance with IAS 36 to the extent that the recoverable amount of the investment subsequently increases.

Upon disposal of an associate that results in the Company losing significant influence over that associate, any retained investment is measured at fair value at that date and the fair value is regarded as its fair value on initial recognition as a financial asset in accordance with IAS 39. The difference between the previous carrying amount of the associate attributable to the retained interest and its fair value is included in the determination of the gain or loss on disposal of the associate. In addition, the Company accounts for all amounts previously recognized in other comprehensive income in relation to that associate on the same basis as would be required if that associate had directly disposed of the related assets or liabilities. Therefore, if a gain or loss previously recognized in other comprehensive income by that associate would be reclassified to income or loss on the disposal of the related assets or liabilities, the Company reclassifies the gain or loss from equity to income or loss (as a reclassification adjustment) when it loses significant influence over that associate.

When a group entity transacts with its associate, incomes and losses resulting from the transactions with the associate are recognized in the Company's consolidated financial statements only to the extent of interests in the associate that are not related to the Company.

### (5) Investments in joint ventures

A joint venture is a contractual arrangement whereby the Company and other parties undertake an economic activity that is subject to joint control (i.e. when the strategic financial and operating policy decisions relating to the activities of the joint venture require the unanimous consent of the parties sharing control). Joint venture arrangements that involve the establishment of a separate entity in which each venturer has an interest are referred to as jointly controlled entities.

The Company reports its interests in jointly controlled entities using the equity method, except when the investment is classified as held for sale, in which case it is accounted for in accordance with IFRS 5 *Non-current Assets Held for Sale and Discontinued Operations*. Any goodwill arising on the acquisition of the Company's interest in a jointly controlled entity is accounted for in accordance with the Company's accounting policy for goodwill arising in a business combination. When the Company transacts with its jointly controlled entity, income and loss resulting from jointly controlled entities are recognized in the Company's consolidated financial statements only to the extent of interests in the jointly controlled entity that are not related to the Company.

### (6) Revenue recognition

Revenue is measured at the fair value of the consideration received or receivable. Revenue is reduced for estimated customer returns, rebates and other similar allowances.

#### (a) Sale of goods Electricity sales

The Korean government approves the rates the Company charges to the customers, for the Company's power transmission and distribution division. The Company's utility rates are designed to recover the Company's reasonable costs plus a fair investment return. The Company's power generation subsidiaries' rates are determined in the market.

## **Table of Contents**

The Company recognizes electricity sales revenue based on power sold (transferred to the customer) up to the reporting date. To determine the amount of power sold, the Company estimates daily power volumes for residential, commercial, general, etc electricity. The differences between the current month's estimated amount and actual (meter-read) amount, is adjusted for (trued-up) during the next month period.

### *Fuel cost pass-through adjustment*

As of July 1, 2011, the Korean government approved a fuel cost pass-through adjustment, allowing the Company to ultimately pass-through increase in fuel costs to the customer. The pass-through amount is determined based on prior three months moving average of global fuel changes and other factors.

Currently, the Korean government has issued a temporary hold-order on the Company, in collecting on the pass-through of fuel cost from the customers, as means to stabilize increasing inflation in Korea. As a result, as of December 31, 2011, the Company recognized a receivable in the amount of KRW 357,085 million for pass-through fuel costs.

### (b) Rendering of services

Revenue from a contract to provide services is recognized by reference to the stage of completion of the contract. Refer to Note 2 (7) below for Construction contract related revenue recognition.

### (c) Dividend income and interest income

Dividend income from investments is recognized when the shareholder's right to receive payment has been established (provided that it is probable that the economic benefits will flow to the Company and the amount of income can be measured reliably).

Interest income from a financial asset is recognized when it is probable that the economic benefits will flow to the Company and the amount of income can be measured reliably. Interest income is accrued on a time basis, by reference to the principal outstanding and at the effective interest rate applicable, which is the rate that exactly discounts estimated future cash receipts through the expected life of the financial asset to that asset's net carrying amount on initial recognition.

### (d) Rental income

The Company's policy for recognition of revenue from operating leases is described in Note 2 (8) below.

### (e) Deferral of revenue - Transfer of assets from customers

The Company recovers a substantial amount of the cost related to its electric power distribution facilities from customers through transfer of assets, while the remaining portion is recovered through electricity sales from such customers in the future. As such, the Company believes there exists a continued service obligation to the customers in accordance with IFRIC 18 *Transfer of Assets from Customers*, when the Company receives an item of property, equipment, or cash for constructing or acquiring an item of a property or equipment, in exchange for supplying electricity to customers. The Company defers the amounts received, which are then recognized as revenue over the transferred asset's useful life.

### (7) Construction contracts

The Company provides services related to construction of power plant related to facilities to its customers, mostly in foreign countries.

## **Table of Contents**

When the outcome of a construction contract can be estimated reliably, revenue and costs are recognized based on the stage of completion of the contract activity at the end of the reporting period, measured based on the proportion of contract costs incurred for work performed to date relative to the estimated total contract costs, except where this would not be representative of the stage of completion. Variations in contract work, claims and incentive payments are included to the extent that the amount can be measured reliably and its receipt is considered probable.

When the outcome of a construction contract cannot be estimated reliably, contract revenue is recognized to the extent of contract costs incurred that it is probable will be recoverable. Contract costs are recognized as expenses in the period in which they are incurred. When it is probable that total contract costs will exceed total contract revenue, the expected loss is recognized as an expense immediately.

When contract costs incurred to date plus recognized income less recognized losses exceed progress billings, the surplus is shown as amounts due from customers for contract work. For contracts where progress billings exceed contract costs incurred to date plus recognized income less recognized losses, the surplus is shown as the amounts due to customers for contract work. Amounts received before the related work is performed are included in the consolidated statement of financial position, as a liability, as advances received. Amounts billed for work performed but not yet paid by the customer are included in the consolidated statement of financial position under account and other receivables.

### **(8) Lease**

Leases are classified as finance leases whenever the terms of the lease transfer substantially all the risks and rewards of ownership to the lessee. All other leases are classified as operating leases.

#### **(a) The Company as lessor**

Amounts due from lessees under finance leases are recognized as receivables at the amount of the Company's net investment in the leases. Finance lease income is allocated to accounting periods so as to reflect a constant periodic rate of return on the Company's net investment outstanding in respect of the leases.

Rental income from operating leases is recognized on a straight-line basis over the term of the relevant lease. Initial direct costs incurred in negotiating and arranging an operating lease are added to the carrying amount of the leased asset and recognized on a straight-line basis over the lease term.

#### **(b) The Company as lessee**

Leases are classified as finance leases whenever the terms of the lease transfer substantially all the risks and rewards of ownership to the lessee. All other leases are classified as operating leases.

Assets held under finance leases are initially recognized as assets of the Company at their fair value at the inception of the lease or, if lower, at the present value of the minimum lease payments. The corresponding liability to the lessor is included in the statement of financial position as a finance lease obligation.

Lease payments are apportioned between finance expenses and reduction of the lease obligation so as to achieve a constant rate of interest on the remaining balance of the liability. Finance expenses are recognized immediately in income or loss, unless they are directly attributable to qualifying assets, in which case they are capitalized in accordance with the Company's general policy on borrowing costs. Contingent rentals are recognized as expenses in the periods in which they are incurred.

Operating lease payments are recognized as an expense on a straight-line basis over the lease term, except where another systematic basis is more representative of the time pattern in which economic benefits from the leased asset are consumed. Contingent rentals arising under operating leases are recognized as an expense in the period in which they are incurred.

---

**Table of Contents**

In the event that lease incentives are received to enter into operating leases, such incentives are recognized as a liability. The aggregate benefit of incentives is recognized as a reduction of rental expense on a straight-line basis, except where another systematic basis is more representative of the time pattern in which economic benefits from the leased asset are consumed.

(9) Foreign currencies

The individual financial statements of each subsidiary are presented in the currency of the primary economic environment in which the entity operates (its functional currency). For the purpose of the consolidated financial statements, the results and financial position of each Company entity are expressed in KRW which is the functional currency of the Company and the presentation currency for the consolidated financial statements.

In preparing the financial statements of the individual entities, transactions in currencies other than the entity's functional currency (foreign currencies) are recognized at the rates of exchange prevailing at the dates of the transactions. At the end of each reporting period, monetary items denominated in foreign currencies are retranslated at the rates prevailing at that date. Non-monetary items carried at fair value that are denominated in foreign currencies are retranslated at the rates prevailing at the date when the fair value was determined. Non-monetary items that are measured in terms of historical cost in a foreign currency are not retranslated.

Exchange differences are recognized in income or loss in the period in which they arise except for:

- (a) exchange differences on foreign currency borrowings relating to assets under construction for future productive use, which are included in the cost of those assets when they are regarded as an adjustment to interest costs on those foreign currency borrowings;
- (b) exchange differences on transactions entered into in order to hedge certain foreign currency risks (see Note 2 (22) below for hedging accounting policies); and
- (c) exchange differences on monetary items receivable from or payable to a foreign operation for which settlement is neither planned nor likely to occur (therefore forming part of the net investment in the foreign operation), which are recognized initially in other comprehensive income and reclassified from equity to income or loss on disposal or partial disposal of the net investment.

For the purpose of presenting consolidated financial statements, the assets and liabilities of the Company's foreign operations are expressed in KRW using exchange rates prevailing at the end of the reporting period. Income and expense items are translated at the average exchange rates for the period, unless exchange rates fluctuated significantly during that period, in which case the exchange rates at the dates of the transactions are used. Exchange differences arising, if any, are recognized in other comprehensive income and accumulated in equity (attributed to non-controlling interests as appropriate).

On the disposal of a foreign operation (i.e. a disposal of the Company's entire interest in a foreign operation, or a disposal involving loss of control over a subsidiary that includes a foreign operation, loss of joint control over a jointly controlled entity that includes a foreign operation, or loss of significant influence over an associate that includes a foreign operation), all of the accumulated exchange differences in respect of that operation attributable to the Company are reclassified to income or loss. Any exchange differences that have previously been attributed to non-controlling interests are derecognized, but they are not reclassified to income or loss.

In addition, in relation to a partial disposal of a subsidiary that does not result in the Company losing control over the subsidiary, the proportionate share of accumulated exchange differences are re-attributed to non-controlling interests and are not recognized in income or loss. For all other partial disposals (i.e. partial disposals of associates or jointly controlled entities that do not result in the Company losing significant influence or joint control), the proportionate share of the accumulated exchange differences is reclassified to income or loss.



## **Table of Contents**

Goodwill and fair value adjustments on identifiable assets and liabilities acquired arising on the acquisition of a foreign operation are treated as assets and liabilities of the foreign operation and translated at the rate of exchange prevailing at the end of each reporting period. Exchange differences arising are recognized in equity.

### **(10) Borrowing costs**

Borrowing costs directly attributable to the acquisition, construction or production of qualifying assets, which are assets that necessarily take a substantial period of time to get ready for their intended use or sale, are added to the cost of those assets, until such time as the assets are substantially ready for their intended use or sale.

Investment income earned on the temporary investment of specific borrowings pending their expenditure on qualifying assets is deducted from the borrowing costs eligible for capitalization.

All other borrowing costs are recognized in income or loss in the period in which they are incurred.

### **(11) Government grants**

Government grants are not recognized until there is reasonable assurance that the Company will comply with the conditions attached to the grants and that the receipt of the grants are probable.

Government grants are recognized in the consolidated statement of comprehensive income over the periods in which the Company recognizes the related costs, for which the grants are intended to compensate as expense. Specifically, government grants, which are conditional to the Company purchasing, constructing or otherwise acquiring non-current assets, are recognized as deductions for related assets in the consolidated statement of financial position and transferred to income or loss over the estimated useful lives of the related assets.

Government grants that are receivable as compensation for expenses or losses already incurred or for the purpose of giving immediate financial support to the Company with no future related costs are recognized in income or loss in the period in which they become receivable.

In addition, a benefit from a government loan at a below-market interest rate is treated as a government grant, measured as the difference between proceeds received and the fair value of the loan based on prevailing market interest rates.

### **(12) Retirement benefit obligation**

Payments to defined contribution plans are expensed as incurred, which is as the related employee service is rendered.

For defined benefit pension plans and other post-employment benefits, the net periodic pension expense is actuarially determined on an annual basis by independent actuaries using the projected unit credit method.

The asset or liability recognized in the statement of financial position is the present value of the defined benefit obligation at the end of the reporting period less the fair value of plan assets, together with adjustments for unrecognized past service costs. The present value of the defined benefit obligation is determined by discounting the estimated future cash outflows using interest rates of high-quality corporate bonds that are denominated in the currency in which the benefits will be paid and that have terms to maturity approximating the terms of the related pension liability.

All actuarial gains and losses that arise in calculating the present value of the defined benefit obligation and the fair value of plan assets are recognized immediately in retained earnings and included in the statement of comprehensive income.

## **Table of Contents**

For the purpose of calculating the expected return on plan assets, the assets are valued at fair value. Actual results will differ from results which are estimated based on assumptions. The vested portion of past service cost arising from plan amendments is recognized immediately in the income statement. The unvested portion is amortized on a straight-line basis over the average remaining period until the benefits become vested.

The retirement benefit obligation recognized in the consolidated statement of financial position represents the present value of the defined benefit obligation as adjusted for unrecognized actuarial gains and losses and unrecognized past service cost, and as reduced by the fair value of plan assets. Any asset resulting from this calculation is limited to unrecognized actuarial losses and past service cost, plus the present value of available refunds and reductions in future contributions to the plan.

### (13) Income tax

Income tax consists of current tax and deferred tax.

#### (a) Current tax

The tax currently payable is based on taxable income for the year. Taxable income differs from income as reported in the consolidated statement of comprehensive income because of items of income or expense that are taxable or deductible in other years and items that are never taxable or deductible. The Company's liability for current tax is calculated using tax rates that have been enacted or substantively enacted by the end of the reporting period.

#### (b) Deferred tax

Deferred tax is recognized on temporary differences between the carrying amounts of assets and liabilities in the consolidated financial statements and the corresponding tax bases used in the computation of taxable income. Deferred tax liabilities are generally recognized for all taxable temporary differences. Deferred tax assets are generally recognized for all deductible temporary differences to the extent that it is probable that taxable income will be available against which those deductible temporary differences can be utilized. Such deferred tax assets and liabilities are not recognized if the temporary difference arises from goodwill or from the initial recognition (other than in a business combination) of other assets and liabilities in a transaction that affects neither the taxable income nor the accounting income.

Deferred tax liabilities are recognized for taxable temporary differences associated with investments in subsidiaries and associates, and interests in joint ventures, except where the Company is able to control the reversal of the temporary difference and it is probable that the temporary difference will not reverse in the foreseeable future. Deferred tax assets arising from deductible temporary differences associated with such investments and interests are only recognized to the extent that it is probable that there will be sufficient taxable income against which to utilize the benefits of the temporary differences and they are expected to reverse in the foreseeable future.

The carrying amount of deferred tax assets is reviewed at the end of each reporting period and reduced to the extent that it is no longer probable that sufficient taxable income will be available to allow all or part of the asset to be recovered. Deferred tax assets and liabilities are measured at the tax rates that are expected to apply in the period in which the liability is settled or the asset realized, based on tax rates (and tax laws) that have been enacted or substantively enacted by the end of the reporting period. The measurement of deferred tax liabilities and assets reflects the tax consequences that would follow from the manner in which the Company expects, at the end of the reporting period, to recover or settle the carrying amount of its assets and liabilities.

**Table of Contents**

## (c) Current and deferred tax for the year

Current and deferred tax are recognized in income or loss, except when they relate to items that are recognized in other comprehensive income or directly in equity, in which case, the current and deferred tax are also recognized in other comprehensive income or directly in equity respectively. Where current tax or deferred tax arises from the initial accounting for a business combination, the tax effect is included in the accounting for the business combination.

## (14) Property, plant and equipment

Property, plant and equipment are stated at cost less subsequent accumulated depreciation and accumulated impairment losses. The cost of an item of property, plant and equipment is directly attributable to their purchase or construction, which includes any costs directly attributable to bringing the asset to the location and condition necessary for it to be capable of operating in the manner intended by management. It also includes the initial estimate of the costs of dismantling and removing the item and restoring the site on which it is located.

Subsequent costs are recognized in carrying amount of an asset or as an asset if it is probable that future economic benefits associated with the assets will flow into the Company and the cost of an asset can be measured reliably. Routine maintenance and repairs are expensed as incurred.

The Company does not depreciate land. Depreciation expense is computed using the straight-line method based on the estimated useful years of the assets as follows:

	<b>Estimated Useful Years</b>
Buildings	8 ~ 40
Structures	8 ~ 50
Machinery	6 ~ 32
Vehicles	4
Loaded heavy water	30
Asset retirement costs	18, 30, 40
Finance lease assets	20
Ships	9
Others	4 ~ 9

For loaded nuclear fuel (PWR) and asset retirement costs related to long-term raw materials, the Company uses the production method to measure and recognize as expense the economic benefits of the assets.

If the cost of a part of property, plant and equipment is significant compared to the overall total cost of the property, plant and equipment, the cost of the part is separately depreciated from the related property, plant and equipment.

The Company reviews the depreciation method, the estimated useful lives and residual values of property, plant and equipment at the end of each annual reporting period. If expectations differ from previous estimates, the changes are accounted for as a change in an accounting estimate.

Property, plant and equipment is derecognized on disposal, or when no future economic benefits are expected from its use or disposal. Gains or losses arising from derecognition of a property, plant and equipment, measured as the difference between the net disposal proceeds and the carrying amount of the asset, are recognized in income or loss when the asset is derecognized.

## (15) Investment property

Investment properties are properties held to earn rentals and/or for capital appreciation (including property under construction for such purposes). Investment properties are measured initially at cost, including transaction costs. Subsequent to initial recognition, investment properties are measured at initial acquisition cost less any subsequent accumulated depreciation and subsequent accumulated impairment losses.



## **Table of Contents**

While land is not depreciated, all other investment property is depreciated based on the respective assets estimated useful lives ranging from 8 ~ 40 years using the straight-line method.

The estimated useful lives, residual values and depreciation method are reviewed at the end of each reporting period, with the effect of any changes in estimate accounted for on a prospective basis.

An investment property is derecognized upon disposal or when the investment property is permanently withdrawn from use and no future economic benefits are expected from the disposal. Any gain or loss arising on derecognition of the property (calculated as the difference between the net disposal proceeds and the carrying amount of the asset) is included in income or loss in the period in which the property is derecognized.

### (16) Intangible assets

#### (a) Intangible assets acquired separately

Intangible assets with finite useful lives that are acquired separately are carried at cost less accumulated amortization and accumulated impairment losses. Amortization is recognized on a straight-line basis over their estimated useful lives. The estimated useful life and amortization method are reviewed at the end of each reporting period, with the effect of any changes in estimate being accounted for on a prospective basis. Intangible assets with indefinite useful lives that are acquired separately are carried at cost less accumulated impairment losses.

#### (b) Internally-generated intangible assets research and development expenditure

Expenditure on research activities is recognized as an expense in the period in which it is incurred.

An internally-generated intangible asset arising from development (or from the development phase of an internal project) is recognized if, and only if, all of the following have been demonstrated:

the technical feasibility of completing the intangible asset so that it will be available for use or sale;

the intention to complete the intangible asset and use or sell it;

the ability to use or sell the intangible asset;

how the intangible asset will generate probable future economic benefits;

the availability of adequate technical, financial and other resources to complete the development and to use or sell the intangible asset; and

the ability to measure reliably the expenditure attributable to the intangible asset during its development.

The amount initially recognized for internally-generated intangible assets is the sum of the expenditure incurred from the date when the intangible asset first meets the recognition criteria listed above. When the development expenditure does not meet the criteria listed above, an internally-generated intangible asset cannot be recognized and the expenditure is recognized in income or loss in the period in which it is incurred.

(c) Intangible assets acquired in a business combination

Intangible assets that are acquired in a business combination are recognized separately from goodwill and are initially recognized at their fair value at the acquisition date (which is regarded as their cost).

Subsequent to initial recognition, intangible assets acquired in a business combination are reported at cost less accumulated amortization and accumulated impairment losses, on the same basis as intangible assets that are acquired separately.

**Table of Contents**

## (d) Derecognition of intangible assets

An intangible asset is derecognized on disposal, or when no future economic benefits are expected from its use or disposal. Gains or losses arising from derecognition of an intangible asset, measured as the difference between the net disposal proceeds and the carrying amount of the asset, are recognized in income or loss when the asset is derecognized.

## (e) Intangible assets useful lives

As of December 31, 2011, the estimated useful years and amortization method of intangible assets with finite useful lives are as follows (KRW in millions):

	<b>Estimated Useful Years</b>
Usage rights for donated assets	4 ~ 30
Software	4, 5
Industrial rights	5, 10
Development expenses	5
Dam usage right	50
Others	4~20

## (17) Impairment of property, plant, equipment and intangible assets

At the end of each reporting period, the Company reviews the carrying amounts of its tangible and intangible assets to determine whether there is any indication that those assets have suffered an impairment loss. If any such indication exists, the recoverable amount of the asset is estimated in order to determine the extent of the impairment loss (if any). Where it is not possible to estimate the recoverable amount of an individual asset, the Company estimates the recoverable amount of the cash-generating unit to which the asset belongs. Where a reasonable and consistent basis of allocation can be identified, corporate assets are also allocated to individual cash-generating units, or otherwise they are allocated to the smallest group of cash-generating units for which a reasonable and consistent allocation basis can be identified.

Intangible assets with indefinite useful lives and intangible assets not yet available for use are tested for impairment at least annually, and whenever there is an indication that the asset may be impaired.

Recoverable amount is the higher of fair value less costs to sell and value in use. In assessing value in use, the estimated future cash flows are discounted to their present value using a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset for which the estimates of future cash flows have not been adjusted. If the recoverable amount of an asset (or a cash-generating unit) is estimated to be less than its carrying amount, the carrying amount of the asset (or the cash-generating unit) is reduced to its recoverable amount. An impairment loss is recognized immediately in income or loss, unless the relevant asset is carried at a revalued amount, in which case the impairment loss is treated as a revaluation decrease.

When an impairment loss subsequently reverses, the carrying amount of the asset (or a cash-generating unit) is increased to the revised estimate of its recoverable amount, but so that the increased carrying amount does not exceed the carrying amount that would have been determined had no impairment loss been recognized for the asset (or cash-generating unit) in prior years. A reversal of an impairment loss is recognized immediately in income or loss, unless the relevant asset is carried at a revalued amount, in which case the reversal of the impairment loss is treated as a revaluation increase.

## (18) Inventories

Inventories are stated at the lower of cost and net realizable value. Cost of inventories, except for those in in-transit, are measured under the weighted average method and consists of the purchase price, cost of conversion and other costs incurred in bringing the inventories to their present location and condition. Net realizable value represents the estimated selling price for inventories less all estimated costs of completion and costs necessary to make the sale.





## **Table of Contents**

The carrying amount of inventories sold in the period and the amount of any write-down of inventories to net realizable value and all losses of inventories in the period; less the amount of any reversal in the period of any write-down of the inventories, arising from an increase in net realizable value, is recognized as expense during the period.

### **(19) Provisions**

Provisions are recognized when the Company has a present obligation (legal or constructive) as a result of a past event, it is probable that the Company will be required to settle the obligation, and a reliable estimate can be made of the amount of the obligation.

The amount recognized as a provision is the best estimate of the consideration required to settle the present obligation at the end of the reporting period, taking into account the risks and uncertainties surrounding the obligation. When a provision is measured using the cash flows estimated to settle the present obligation, its carrying amount is the present value of those cash flows (where the effect of the time value of money is material).

When some or all of the economic benefits required to settle a provision are expected to be recovered from a third party, a receivable is recognized as an asset if it is virtually certain that reimbursement will be received and the amount of the receivable can be measured reliably.

Increase in provisions due to passage of time is recognized as finance expense during the period. At the end of each reporting period, the remaining provision balance is reviewed and assessed to determine if the current best estimate is being recognized. If the existence of an obligation to transfer economic benefit is no longer probable, the related provision is reversed during the period.

Provisions for estimated future costs are discounted to present value, based on a discount rate which reflects the current market assessment of the time value of money, risks specific to the liability and pre-tax.

#### **(a) Provision for decommissioning costs**

The Company records the fair value of estimated decommissioning costs as a liability in the period in which we incur a legal obligation associated with retirement of long-lived assets that result from acquisition, construction, development and/or normal use of the assets. The Company also recognizes a corresponding asset that is depreciated over the life of the asset. Accretion expense consists of period-to-period changes in the liability for decommissioning costs resulting from the passage of time and revisions to either the timing or the amount of the original estimate of undiscounted cash flows. Depreciation and accretion expenses are included in cost of sales of goods in the accompanying consolidated statements of comprehensive income.

Under the Korean Electricity Business Act (EBA) Article 94, the Company is required to record a liability for the dismantling (demolition) of nuclear power plants and disposal of spent fuel and low & intermediate radioactive wastes.

#### **(b) Provision for Polychlorinated Biphenyls ( PCB )**

Under the regulation of Persistent Organic Pollutants Management Act, enacted in 2007, the Company is required to remove polychlorinated biphenyls (PCBs), a toxin, from the insulating oil of its transformers by 2025. As a result of the enactments, the Company is required to inspect the PCBs contents of transformers and dispose of PCBs in excess of safety standards under the legally settled procedures. The Company's estimates and assumptions used to determine fair value can be affected by many factors, such as the estimated costs of inspection and disposal, inflation rate, discount rate, regulations and the general economy.

**Table of Contents**

(c) Provisions for power plant regional support program

In accordance with regulations on nuclear and hydro-electric power plants' social responsibility to support the surrounding communities of the power plants sites; KHNP, the Company's nuclear generation subsidiary, accrues 0.25won per KWH of KHNP's generation volume from two periods prior, as a provision for power plant regional support program during the year. Power plant regional support programs consist of scholarship programs to local students, local economy support programs, local culture support programs, environment development programs, and local welfare programs.

(20) Financial assets

All financial assets are recognized and derecognized on trade date where the purchase or sale of a financial asset is under a contract whose terms require delivery of the financial asset within the timeframe established by the market concerned, and are initially measured at fair value, plus transaction costs, except for those financial assets classified at fair value through profit or loss, which are initially measured at fair value.

Financial assets are classified into the following specified categories; financial assets at fair value through profit or loss (FVTPL), held-to-maturity investments, available-for-sale financial assets, and loans and receivables. The classification depends on the nature and purpose of the financial assets and is determined at the time of initial recognition.

(a) Effective interest method

The effective interest method is a method of calculating the amortized cost of a debt instrument and of allocating interest income over the relevant period. The effective interest rate is the rate that exactly discounts estimated future cash receipts (including all fees and points paid or received that form an integral part of the effective interest rate, transaction costs and other premiums or discounts) through the expected life of the debt instrument, or, where appropriate, a shorter period, to the net carrying amount on initial recognition. Income is recognized on an effective interest basis for debt instruments other than those financial assets classified as FVTPL.

(b) Financial assets at fair value through profit or loss (FVTPL)

Financial assets are classified as FVTPL when the financial asset is either held for trading or it is designated as FVTPL.

A financial asset is classified as held for trading if:

it has been acquired principally for the purpose of selling it in the near term; or

on initial recognition it is part of a portfolio of identified financial instruments that the Company manages together and has a recent actual pattern of short-term profit-taking; or

it is a derivative, including an embedded derivative that is not designated and effective as a hedging instrument.

A financial asset other than a financial asset held for trading may be designated as at FVTPL upon initial recognition if:

such designation eliminates or significantly reduces a measurement or recognition inconsistency that would otherwise arise; or

## Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

the financial asset forms part of a group of financial assets or financial liabilities or both, which is managed and its performance is evaluated on a fair value basis, in accordance with the Company's documented risk management or investment strategy, and information about the grouping is provided internally on that basis; or

F-28

**Table of Contents**

it forms part of a contract containing one or more embedded derivatives, and IAS 39 *Financial Instruments: Recognition and Measurement* permits the entire combined contract (asset or liability) to be designated as at FVTPL.

Financial assets at FVTPL are stated at fair value, with any gains or losses arising on remeasurement recognized in income or loss. The net gain or loss recognized in income or loss incorporates any dividend or interest earned on the financial asset and is included in the finance income and finance expenses line item in the consolidated statement of comprehensive income.

(c) Held-to-maturity investments

Financial assets with fixed or determinable payments and fixed maturity dates that the Company has the positive intent and ability to hold to maturity are classified as held-to-maturity investments. Held-to-maturity investments are measured at amortized cost using the effective interest method less any impairment, with revenue recognized on an effective yield basis.

(d) Available-for-sale financial assets ( AFS )

Financial assets that are not classified as at held-to-maturity; held-for-trading; designated as FVTPL; or loans and receivables are classified as financial assets AFS.

Gains and losses arising from changes in fair value are recognized in other comprehensive income and accumulated in the valuation reserve. However, impairment losses, interest calculated using the effective interest method, and foreign exchange gains and losses on monetary assets are recognized in income or loss. Unquoted equity investments which are not traded in an active market, whose fair value cannot be measured reliably are carried at cost. Where the investment is disposed of or is determined to be impaired, the cumulative gain or loss previously accumulated in the valuation reserve is reclassified to income or loss. Dividends on AFS equity instruments are recognized in income or loss when the Company's right to receive the dividends is established.

The fair value of AFS monetary assets denominated in a foreign currency is determined in that foreign currency and translated at the spot rate at the end of the reporting period. The foreign exchange gains and losses that are recognized in income or loss are determined based on the amortized cost of the monetary asset. Other foreign exchange gains and losses are recognized in other comprehensive income.

(e) Loans and receivables

Trade receivables, loans, and other receivables that have fixed or determinable payments that are not traded in an active market are classified as loans and receivables. Loans and receivables are measured at amortized cost using the effective interest method, less any impairment. Interest income is recognized by applying the effective interest rate, except for short-term receivables whose period interest income is immaterial.

(f) Impairment of financial assets

Financial assets, other than those at FVTPL, are assessed for indicators of impairment at the end of each reporting period. Financial assets are considered to be impaired when there is objective evidence that, as a result of one or more events that occurred after the initial recognition of the financial asset, the estimated future cash flows of the investment have been affected.

For listed and unlisted equity investments classified as AFS, a significant or prolonged decline in the fair value of the security below its cost is considered to be objective evidence of impairment.

## Table of Contents

For all other financial assets, objective evidence of impairment could include:

significant financial difficulty of the issuer or counterparty; or

breach of contract, such as a default or delinquency in interest or principal payments; or

it becoming probable that the borrower will enter bankruptcy or financial re-organization; or

the disappearance of an active market for that financial asset because of financial difficulties.

For certain categories of financial asset, such as trade receivables, assets that are assessed not to be impaired individually are, in addition, assessed for impairment on a collective basis. Objective evidence of impairment for a portfolio of receivables could include the Company's past experience of collecting payments, an increase in the number of delayed payments in the portfolio past the average credit period of, as well as observable changes in national or local economic conditions that correlate with default on receivables.

For financial assets recorded at amortized cost, the amount of the impairment loss recognized is the difference between the asset's carrying amount and the present value of estimated future cash flows, discounted at the financial asset's original effective interest rate.

For financial assets carried at cost, the amount of the impairment loss is measured as the difference between the asset's carrying amount and the present value of the estimated future cash flows discounted at the current market rate of return for a similar financial asset. Such impairment loss will not be reversed in subsequent periods.

The carrying amount of the financial asset is reduced by the impairment loss directly for all financial assets with the exception of trade receivables, where the carrying amount is reduced through the use of an allowance account. When a trade receivable is considered uncollectible, it is written off against the allowance account. Subsequent recoveries of amounts previously written off are credited against the allowance account. Changes in the carrying amount of the allowance account are recognized in income or loss.

When an AFS financial asset is considered to be impaired, cumulative gains or losses previously recognized in other comprehensive income are reclassified to income or loss in the period.

For financial assets measured at amortized cost, if, in a subsequent period, the amount of the impairment loss decreases and the decrease can be related objectively to an event occurring after the impairment was recognized, the previously recognized impairment loss is reversed through income or loss to the extent that the carrying amount of the investment at the date the impairment is reversed does not exceed what the amortized cost would have been had the impairment not been recognized.

In respect of AFS equity securities, impairment losses previously recognized in income or loss are not reversed through income or loss. Any increase in fair value subsequent to an impairment loss is recognized in other comprehensive income. In respect of AFS debt securities, impairment losses are subsequently reversed through income or loss if an increase in the fair value of the investment can be objectively related to an event occurring after the recognition of the impairment loss.

### (g) Derecognition of financial assets

The Company derecognizes a financial asset only when the contractual rights to the cash flows from the asset expire, or when it transfers the financial asset and substantially all the risks and rewards of ownership of the asset to another entity. If the Company neither transfers nor retains substantially all the risks and rewards of ownership and continues to control the transferred asset, the Company recognizes its retained interest in the asset and an associated liability for amounts it may have to pay. If the Company retains substantially all the risks and rewards of ownership of a transferred financial asset, the Company continues to recognize the financial asset and also recognizes a collateralized borrowing for the proceeds received.



## **Table of Contents**

On derecognition of a financial asset in its entirety, the difference between the asset's carrying amount and the sum of the consideration received and receivable and the cumulative gain or loss that had been recognized in other comprehensive income and accumulated in equity is recognized in income or loss.

On derecognition of a financial asset other than in its entirety (e.g. when the Company retains an option to repurchase part of a transferred asset), the Company allocates the previous carrying amount of the financial asset between the part it continues to recognize under continuing involvement, and the part it no longer recognizes on the basis of the relative fair values of those parts on the date of the transfer. The difference between the carrying amount allocated to the part that is no longer recognized and the sum of the consideration received for the part no longer recognized and any cumulative gain or loss allocated to it that had been recognized in other comprehensive income is recognized in income or loss. A cumulative gain or loss that had been recognized in other comprehensive income is allocated between the part that continues to be recognized and the part that is no longer recognized on the basis of the relative fair values of those parts.

### (21) Financial liabilities and equity instruments issued by the Company

#### (a) Classification as debt or equity

Debt and equity instruments are classified as either financial liabilities or as equity in accordance with the substance of the contractual arrangement.

#### (b) Equity instruments

An equity instrument is any contract that evidences a residual interest in the assets of an entity after deducting all of its liabilities. Equity instruments issued by the Company are recognized at the proceeds received, net of direct issue costs.

Repurchase of the Company's own equity instruments is recognized and deducted directly in equity. No gain or loss is recognized in income or loss on the purchase, sale, issue or cancellation of the Company's own equity instruments.

#### (c) Financial liabilities at FVTPL

Financial liabilities are classified as either financial liabilities at FVTPL or other financial liabilities. Financial liabilities are classified as at FVTPL when the financial liability is either held for trading or it is designated as FVTPL.

A financial liability is classified as held for trading if:

- 1) it has been acquired principally for the purpose of repurchasing it in the near term; or
- 2) on initial recognition it is part of a portfolio of identified financial instruments that the Company manages together and has a recent actual pattern of short-term profit-taking; or
- 3) it is a derivative that is not designated and effective as a hedging instrument.

A financial liability other than a financial liability held for trading may be designated as at FVTPL upon initial recognition if:

- 1)

## Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

such designation eliminates or significantly reduces a measurement or recognition inconsistency that would otherwise arise;  
or

- 2) the financial liability forms part of a group of financial assets or financial liabilities or both, which is managed and its performance is evaluated on a fair value basis, in accordance with the Company's documented risk management or investment strategy, and information about the grouping is provided internally on that basis; or

F-31



**Table of Contents**

- 3) it forms part of a contract containing one or more embedded derivatives, and IAS 39 *Financial Instruments: Recognition and Measurement* permits the entire combined contract (asset or liability) to be designated as at FVTPL.

Financial liabilities at FVTPL are stated at fair value, with any gains or losses arising on remeasurement recognized in income or loss. The net gain or loss recognized in income or loss incorporates any interest paid on the financial liability and is included in finance income and finance expenses .

(d) Other financial liabilities

Other financial liabilities, including borrowings, are initially measured at fair value, net of transaction costs.

Other financial liabilities are subsequently measured at amortized cost using the effective interest method, with interest expense recognized on an effective yield basis. The effective interest method is a method of calculating the amortized cost of a financial liability and of allocating interest expense over the relevant period. The effective interest rate is the rate that exactly discounts estimated future cash payments through the expected life of the financial liability, or (where appropriate) a shorter period, to the net carrying amount on initial recognition.

(e) Financial guarantee contract liabilities

Financial guarantee contract liabilities are initially measured at their fair values and, if not designated as at FVTPL, are subsequently measured at the higher of: (a) the amount of the obligation under the contract, as determined in accordance with IAS 37 *Provisions, Contingent Liabilities and Contingent Assets*; or (b) the amount initially recognized less, cumulative amortization recognized in accordance with the IAS 18 *Revenue*.

(f) Derecognition of financial liabilities

The Company derecognizes financial liabilities when, and only when, the Company's obligations are discharged, cancelled or they expire. The difference between the carrying amount of the financial liability derecognized and the consideration paid and payable is recognized in income or loss.

(22) Derivative financial instruments

The Company enters into a variety of derivative financial instruments to manage its exposure to interest rate and foreign exchange rate risk, including foreign exchange forward contracts, interest rate swaps and cross currency swaps and others.

Derivatives are initially recognized at fair value at the date the derivative contract is entered into and are subsequently remeasured to their fair value at the end of each reporting period. The resulting gain or loss is recognized in income or loss immediately unless the derivative is designated and effective as a hedging instrument, in such case the timing of the recognition in income or loss depends on the nature of the hedge relationship.

A derivative with a positive fair value is recognized as a financial asset; a derivative with a negative fair value is recognized as a financial liability. A derivative is presented as a non-current asset or a non-current liability if the remaining maturity of the instrument is more than 12 months and it is not expected to be realized or settled within 12 months. Other derivatives are presented as current assets or current liabilities.

## **Table of Contents**

### (a) Embedded derivatives

Derivatives embedded in other financial instruments or other host contracts are treated as separate derivatives when their risks and characteristics are not closely related to those of the host contracts and when the host contracts are not measured at FVTPL.

An embedded derivative is presented as a non-current asset or a non-current liability if the remaining maturity of the hybrid instrument to which the embedded derivative is part of, is more than 12 months and it is not expected to be realized or settled within 12 months. All other embedded derivatives are presented as current assets or current liabilities.

### (b) Hedge accounting

The Company designates certain hedging instruments, which include derivatives, embedded derivatives and non-derivatives in respect of foreign currency risk, as either fair value hedges and cash flow hedges. Hedges of foreign exchange risk on firm commitments are accounted for as cash flow hedges.

At the inception of the hedge relationship, the entity documents the relationship between the hedging instrument and the hedged item, along with its risk management objectives and its strategy for undertaking various hedge transactions. Furthermore, at the inception of the hedge and on an ongoing basis, the Company documents whether the hedging instrument is highly effective in offsetting changes in fair values or cash flows of the hedged item.

### (c) Fair value hedges

Changes in the fair value of derivatives that are designated and qualify as fair value hedges are recognized in income or loss immediately, together with any changes in the fair value of the hedged asset or liability that are attributable to the hedged risk. The changes in the fair value of the hedging instrument and the change in the hedged item attributable to the hedged risk relating to the hedged items are recognized in the consolidated statements of comprehensive income.

Hedge accounting is discontinued when the Company revokes the hedging relationship, when the hedging instrument expires or is sold, terminated, or exercised, or when it no longer qualifies for hedge accounting. The fair value adjustment to the carrying amount of the hedged item arising from the hedged risk is amortized as income or loss as of that date.

### (d) Cash flow hedges

The effective portion of changes in the fair value of derivatives that are designated and qualify as cash flow hedges is recognized in other comprehensive income and accumulated under the heading of reverse for gains(loss) on valuation of derivatives. The gain or loss relating to the ineffective portion is recognized immediately in income or loss, and is included in the finance income and expense .

Amounts previously recognized in other comprehensive income and accumulated in equity are reclassified to income or loss in the periods when the hedged item is recognized in income or loss, in the same line of the consolidated statement of comprehensive income as the recognized hedged item. However, when the forecast transaction that is hedged results in the recognition of a non-financial asset or a non-financial liability, the gains and losses previously accumulated in equity are transferred from equity and included in the initial measurement of the cost of the non-financial asset or non-financial liability.

Hedge accounting is discontinued when the Company revokes the hedging relationship, when the hedging instrument expires or is sold, terminated, or exercised, or it no longer qualifies for hedge accounting. Any gain or loss accumulated in equity at that time remains in equity and is recognized when the forecast transaction is ultimately recognized in income or loss. When a forecast transaction is no longer expected to occur, the gain or loss accumulated in equity is recognized immediately in income or loss.

---

**Table of Contents**

3. **Critical accounting judgments and key sources of estimation uncertainty**

In the application of the Company accounting policies, which are described in Note 2, management is required to make judgments, estimates and assumptions about the carrying amounts of assets and liabilities that are not readily apparent from other sources. The estimates and associated assumptions are based on historical experience and other factors that are considered to be relevant. Actual results may differ from these estimates.

The estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognized in the period in which the estimate is revised if the revision affects only that period or in the period of the revision and future periods if the revision affects both current and future periods.

The following are the key assumptions concerning the future, and other key sources of estimation uncertainty at the end of the reporting period, that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year.

(1) Useful lives of property, plant and equipment

In accordance with IFRS, property, plant and equipment are stated at cost. The Company does not depreciate land. Depreciation is computed by the straight-line method (unit-of-production method for loaded nuclear fuel (PWR) and capitalized asset retirement cost of loaded nuclear fuel) using rates based on the estimated useful lives. Net property, plant and equipment as of December 31, 2011 totaled KRW 112,384,881 million representing more than 82% of total assets. Given the significance of property, plant and equipment and the associated depreciation expense to our financial statements, the determination of an asset's economic useful life is considered to be a critical accounting estimate.

Economic useful life is the duration of time the asset is expected to be productively employed by us, which may be less than its physical life. Management's assumptions on the following factors, among others, affect the determination of estimated economic useful life: wear and tear, obsolescence, technical standards, changes in market demand and technological changes. The Company reviews the estimated useful lives of property, plant and equipment at the end of each annual reporting period.

(2) Estimations on provision for decommissioning costs

The Company records the fair value of estimated decommissioning costs as a liability in the period in which we incur a legal obligation associated with retirement of long-lived assets that result from acquisition, construction, development and/or normal use of the assets. Under the Korean Electricity Business Act (EBA) Article 94, the Company is required to record a liability for the dismantling (demolition) of nuclear power plants and disposal of spent fuel and low & intermediate radioactive wastes.

Significant management judgment is involved in determining the fair value of estimated decommissioning costs. The estimates and assumptions used by our management to determine fair value can be impacted by many factors, such as the estimated decommissioning costs based on engineering studies commissioned and approved by the Korean government, and changes in assumed dates of decommissioning, inflation rate, discount rate, decommissioning technology, regulation and the general economy.

As of December 31, 2011 and 2010, we recorded liability for decommissioning costs in the amounts of KRW 6,727 billion and KRW 5,976 billion, respectively. Changes in the estimated costs or timing of decommissioning, or changes in the assumptions and judgments by management underlying these estimates, may cause material revisions to the estimated total cost to decommission these facilities, which could have a material effect on the recorded liability. The Company used a discount rate of 4.36% and an inflation rate of 2.30% when calculating the decommissioning cost liability recorded as of December 31, 2011 and 2010. In addition, the following is a sensitivity analysis of the potential

**Table of Contents**

impact on decommissioning costs from a 0.10% increase or decrease in each of the inflation rate and the discount rate, assuming that all other aforementioned assumptions remain constant (KRW in millions):

TYPE	Accounts	Dec. 31, 2011		Dec. 31, 2010		Jan. 1, 2010	
		Increase	Decrease	Increase	Decrease	Increase	Decrease
				0.1%			
Discount rate	Nuclear plants	(111,132)	114,140	(104,473)	107,275	(104,320)	107,208
	Spent fuel	(21,386)	21,946	(21,297)	21,876	(19,663)	20,217
Inflation rate	Nuclear plants	150,939	(146,083)	136,532	(132,273)	130,828	(126,747)
	Spent fuel	29,371	(28,439)	28,179	(27,284)	25,100	(24,303)

## (3) Provision for Polychlorinated Biphenyls ( PCBs )

The Company is required to inspect the PCBs contents of transformers and dispose of PCBs in excess of safety standards under the legally settled procedures. The Company's estimates and assumptions used to determine fair value can be affected by many factors, such as the estimated costs of inspection and disposal, inflation rate, discount rate, regulations and the general economy.

Changes in the estimated costs or changes in the assumptions and judgments underlying these estimates may cause material revisions to the estimated total costs, which could have a material effect on our recorded liability. The Company used a discount rate of 5.84%, 6.49% and 6.49% and an inflation rate of 3.34%, 2.81% and 3.08% when calculating the provision for the decontamination of transformers recorded as of December 31, 2011, December 31, 2010 and January 1, 2010.

In addition, the following is a sensitivity analysis of the potential impact on decontamination costs based on a 0.10% increase or decrease in each of the inflation rate and the discount rate, assuming that all other aforementioned assumptions remain constant (KRW in millions):

TYPE	Accounts	Dec. 31, 2011		Dec. 31, 2010		Jan. 1, 2010	
		Increase	Decrease	Increase	Decrease	Increase	Decrease
				0.1%			
Discount rate	PCBs	(Won) 1,291	(Won) 1,302	(Won) 760	(Won) 764	(Won) 733	(Won) 737
Inflation rate	PCBs	1,332	(1,323)	790	(788)	761	(758)

## (4) Deferred tax asset

In assessing the realizability of the deferred tax assets, the Company considers whether it is probable that a portion or all of the deferred tax assets will not be realized. The ultimate realization of deferred tax assets is dependent on whether the Company is able to generate future taxable income in specific tax jurisdictions during the periods in which temporary differences become deductible. The Company has scheduled the expected future reversals of the temporary differences and projected future taxable income in making this assessment. Based on these factors, the Company believes that it is probable that the Company will realize the benefits of these temporary differences as of December 31, 2011. However, the amount of deferred tax assets may be different if we do not realize estimated future taxable income during the carry forward periods as originally expected.

The Company recognizes deferred tax assets and liabilities based on the differences between the financial statement carrying amounts and the tax bases of assets and liabilities at each separate taxpaying entity. Under IFRS, a deferred tax asset is recognized for temporary difference that will result in deductible amounts in future years and for carry forwards. If, based on the weight of available evidence, it is probable that some or the entire portion of the deferred tax asset will not be realized, that portion is deducted directly from the deferred tax asset.

## Table of Contents

The Company believes that the accounting estimate related to realizability of deferred tax asset is a critical accounting estimate because: (i) it requires the Company to make assessments about the timing of future events, including the probability of expected future taxable income and available tax planning opportunities, and (ii) the difference between these assessments and the actual performance could have a material impact on the realization of tax benefits as reported in our results of operations. The Company's assumptions require significant judgment because actual performance has fluctuated in the past and may continue to do so.

### (5) Valuations of financial instruments at fair values

As stated in note 43, the Company uses inputs that are not based on observable market data to estimate the fair value of certain types of financial instruments. Note 43 explains the details of assumptions used for valuations of financial instruments and sensitivity analysis of these assumptions. Management believes valuation techniques and assumptions are reliable and appropriate.

### (6) Retirement benefit costs

The Company offers defined benefit retirement plans. The cost of providing benefits is determined using the Projected Unit Credit Method, with actuarial valuations being carried out at the end of each reporting period. For actuarial valuations, discount rate, future salary increase and expected return on plan assets are estimated and these estimations are uncertain.

## 4. TRANSITION TO IFRSs

### (1) Application of IFRS

Historically, the Company prepared its financial statements in accordance with generally accepted accounting principles in the Republic of Korea ( Korean GAAP or previous GAAP ). As of January 1, 2011 (the date of transition ), the Company has adopted IFRS as issued by IASB, and prepared its first consolidated financial statements in accordance with IFRS 1 *First-time of adoption of IFRS*.

### (2) IFRS 1 *First-time of adoption of IFRS* Optional exemptions

IFRS 1 provides for a number of optional exemptions from the general principle of full retrospective applications. The optional exemptions for first-time adoption of IFRS of the Company are as follows.

#### (a) Business combination

The Company has elected not to apply IFRS 3, *Business Combinations* retrospectively to past business combinations that occurred before January 1 2010, the date of transition to IFRS.

#### (b) Fair value or revaluation as deemed cost

Land, property, plant and equipment have been revalued at the date of transition to IFRS and that revaluation is used as the asset's deemed cost.

Effect of revaluation in land, property, plant and equipment as of January 1, 2010 are as follows

(KRW in millions):

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

<b>Korean GAAP</b>	<b>Revaluation increase</b>	<b>IFRS</b>
(Won) 74,033,431	(Won) 21,839,510	(Won) 95,872,941

(c) Cumulative translation differences

Cumulative translation differences for all foreign operations were deemed to be zero at the date of transition to IFRS.

**Table of Contents**

(d) Leases

The Company has elected to apply the transitional provisions in International Financial Reporting Interpretations Committee ( IFRIC ) 4, *Determining Whether an Arrangement Contains a Lease* ( IFRIC 4 ), thereby determining whether the Company has any arrangements that exist at the date of transition to IFRS that contain a lease on the basis of facts and circumstances existing at January 1, 2010. No such arrangements were identified.

(e) Investments in subsidiaries, associates, and joint ventures

For certain investments in foreign subsidiaries, associates, or joint ventures, who have previously adopted IFRS, the Company recognized the carrying values on the respective entity's books, as of date of transition, as deemed cost.

(f) Decommissioning liabilities included in the cost of property, plant and equipment

In accordance with IFRIC 1 *Changes in Existing Decommissioning, Restoration and Similar Liabilities*, specified changes in a decommissioning, restoration or similar liability are added to or deducted from the cost of the asset to which it relates, and the adjusted depreciable amount of the asset is then depreciated prospectively over its useful life.

(3) Exceptions to retrospective application of other accounting standards.

(a) Derecognition of financial assets

The Company applied derecognition criteria listed in IAS 39 *Financial Instruments: Recognition and derecognition* for transfer of financial assets for transfers after the transition date. For any derecognized financial assets in accordance with past accounting standards before the date of transition, the Company did not retrospectively recognize such assets in accordance with IFRS, even if it does not satisfy the derecognition criteria under IFRS.

(b) Exception for estimates

The company applied estimates which are estimated before the date of transition to be consistent with estimates made for the same date under previous Korean GAAP, after adjustments to reflect any difference in accounting policies.

(4) Explanation of transition to IFRSs

**Korean GAAP**

**Scope of consolidation (\*1)**

The definition of control is similar to those in IFRS. However, some of the scope of consolidation is restricted by the Act on External Audit of Stock Companies as below.

An entity that another entity owns more than 30% of shares as the largest shareholder is included in consolidation.

**IFRS**

Control is the power to govern the financial and operating policies of an entity so as to obtain benefits from its activities. All entities controlled by the Company are consolidated regardless of quantitative significance. As a result, at transition date to IFRS, the Company's change in scope of consolidation as compared with those of Korean GAAP.

## Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

A subsidiary with less than 10 billion Won in its total assets as of the previous fiscal year end is excluded from consolidation.

An unincorporated entity such as a partnership is excluded from consolidation

F-37



**Table of Contents**

**Korean GAAP**

**IFRS**

**Property, plant and equipment**

Under Korean GAAP, the Company uses the cost model in the measurement after initial recognition.

The Company revalued its property and equipment as at January 1, 2010 and used their fair values as deemed cost in the opening IFRS statement of financial position.

The depreciation method is required to be applied consistently at each period and cannot be changed unless there are justified reasons. For a newly acquired asset, the same depreciation methods applied to the existing, similar assets are applied consistently.

For the measurement after initial recognition, IAS 16, Property, Plant and Equipment allows for an entity to choose either the cost model or the revaluation model by the class of property and equipment and the Company has chosen the cost model.

The residual value, the useful life and the depreciation method of property and equipment are required to be reviewed at least at each financial year-end and, if expectations differ from previous estimates, the changes should be accounted for as a change in an accounting estimate in accordance with IAS 8, Accounting Policies, Changes in Accounting Estimates and Errors.

The Company changed its depreciation method of equipment from a declining balance method to a straight-line method in connection with the adoption of IFRS.

**Revenue recognition**

Under Korean GAAP, the Company read meters and bills customers on a cycle basis. The Company did not accrue revenue for power sold to customers between the meter-reading date and end of the reporting period but recorded the revenue in the subsequent period. Such practice was consistent with the Accounting Regulations for Public Enterprise Associated Government Agency, which has been approved by the Korean Ministry of Strategy and Finance (formerly the Korean Ministry of Finance and Economy) and considered by the utility industry in Korea as Korean GAAP.

Under IFRS, the Company estimates and recognizes unbilled revenue related to the sale of power between the meter-reading dates and the end of the reporting period.

**Retirement benefit obligation & long-term employee benefits obligation**

Allowances for retirement benefits accrued equal to the amounts to be paid at the end of reporting period, assuming that the all entitled employees with a service year more than a year would retire at once. Retirement benefit expenses incur at the point when the payment obligation is fixed. The Company recognized allowances for long-term employee benefit at the point when the payment obligation is fixed.

The retirement benefit amount is appropriated as a defined benefit obligation by actuarial assessment using the projected unit credit method. Also, the Company recognizes its long-term employee benefits obligation by actuarial assessment using the projected unit credit method.

**Table of Contents****Korean GAAP****IFRS****Income tax**

Under Korean GAAP, deferred tax assets and liabilities were classified as either current or non-current based on the classification of their underlying assets and liabilities assuming that all differences from one entity are recovered or settled together. If there are no corresponding assets or liabilities, deferred tax assets and liabilities were classified based on the periods the temporary differences were expected to reverse.

Under IFRS, deferred tax assets and liabilities are all classified as non-current on the statement of financial position.

Under Korean GAAP the temporary differences associated with investments in subsidiaries, branches and associates and interest in joint ventures were recognized as deferred tax assets and liabilities.

Under IFRS, the temporary differences associated with investments in subsidiaries, branches and associates and interest in joint ventures is recognized as deferred assets and liabilities reflecting the manner in which Company expects to recover or settle the carrying amount of its assets and liabilities.

**Financial assets measurement and impairment**

The Company's available-for-sale securities, loans & receivables and other financial assets are measured at fair value. Under Korean GAAP, expected loss was estimated and set as allowance for doubtful accounts based on the Company's evaluation of loans and receivables collectability.

Under IFRS, the Company reviews whether or not impairment exists for individually significant loans and receivables. For other loans and receivables, the Company groups loans and receivables which have similar credit risks, performs collective impairment test, and estimates the incurred loss as allowance for doubtful loans and receivables.

**Construction contracts**

Under Korean GAAP, there was no concept of recognizing the gross amount due from or due to customers as an asset or liability.

Under IFRS, the due from or due to customers amount which is the net amount of cost incurred plus recognized profits, less the sum of the recognized losses and progress billing. If the costs incurred plus recognized profit (or losses) exceeds progress billings a due from customer amount is recognized as an asset, and if the progress billing exceeds the cost incurred plus recognized profit (or losses) a due to customer amount is recognized as a liability.

**Other reclassifications**

i. Memberships and guarantee deposits Under Korean GAAP memberships and guarantee deposits were classified as other non-current assets.

Under IFRS facility-use memberships are recognized as intangible assets with an indefinite useful life and guarantee deposits that satisfy the definition of financial assets are classified as loans and receivables at amortized costs.

ii. Investment property and intangible assets Under Korean GAAP, properties acquired for earn rental income and/or for capital appreciation (including property under construction for such purposes) were classified as property, plant and equipment.

Under IFRS, such properties are reclassified separately as investment properties and for property under construction with intangible asset type items are classified separately within intangible assets.

**Table of Contents**

(\*1) As at January 1, 2010, the date of transition to IFRS, the Company's change in scope of consolidation is as follows:

Type	Description	Company
		KEPCO Canada Uranium Investment Limited Partnership
		KEPCO Middle East Holding Company
		Qatrania Electric Power Company
		Sylardus Holdings B.V.,
		Akkuyu Finance B.V.
Newly Added	Under the former Act on External Audit of Stock companies Article 1.3 Section 2.1 in the Republic of Korea, companies whose total assets are less than 10 billion Korean won were not subject to consideration, However, under IFRS all entities are subject to consolidation.	Akkuyu Fuel B.V.
		Akkuyu Operation B.V.
		Korea Electric Power Nigeria Ltd.
		KOWEPO International Corporation
		KOSPO Jordan LLC
		EWP Cebu Corporation
		KOREA Waterbury Uranium Limited Partnership
		Akkuyu Electricity Production Company
Excluded	Under the former Act on External Audit of Stock companies Article 1.3 Section 2.1 in the Republic of Korea, entities where the Company owns more than 30% of shares and is the largest shareholder with the largest voting rights were included in the scope. Under IFRS no such exceptions exist.	KEPCO SPC Power Corporation. (formerly KEPCO Salcon Power Corporation)

(5) Explanation of effects of transition to IFRS

(a) Effects of transition of IFRS at January 1, 2010, date of transition, are as follows (KRW in millions):

Item	Note	Asset	Liability	Equity
Korean GAAP (Previous GAAP)		(Won) 93,208,031	(Won) 51,804,224	(Won) 41,403,807
Reconciliation of transition effects				
Consolidation	(*1)	656,730	102,943	553,787

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Property, plant and equipment	(*2)	26,567,833	9,382,612	17,185,221
Leases	(*3)	1,248,604	1,564,536	(315,932)
Revenue recognition	(*4)	1,285,709	326,598	959,111
Employee benefits	(*5)	80,676	683,829	(603,153)
Income taxes	(*6)	(500,193)	1,685,847	(2,186,040)
Other	(*7)	70,643	(219,894)	290,537
IFRS		(Won) 122,618,033	(Won) 65,330,695	(Won) 57,287,338

F-40

**Table of Contents**

- (b) Effects of transition to IFRS at December 31, 2010, the end date of the last fiscal period the last financial statements were prepared under Korean GAAP, are as follows (KRW in millions):

Item	Note	Asset	Liability	Equity
Korean GAAP (Previous GAAP)		(Won) 99,610,398	(Won) 58,121,798	(Won) 41,488,600
Reconciliation of transition effects				
Consolidation	(*1)	501,166	(301,393)	802,559
Property, plant and equipment	(*2)	28,672,884	11,771,386	16,901,498
Leases	(*3)	1,120,143	1,420,717	(300,574)
Revenue recognition	(*4)	1,350,042	344,135	1,005,907
Employee benefits	(*5)	78,867	876,723	(797,856)
Income taxes	(*6)	(1,771,638)	294,934	(2,066,572)
Other	(*7)	(44,068)	(287,043)	242,975
IFRS		(Won) 129,517,794	(Won) 72,241,257	(Won) 57,276,537

- (c) Effects in net income and comprehensive income for the year ended December 31, 2010, the end date of the last fiscal period the last financial statements were prepared under Korean GAAP, are as follows (KRW in millions):

Item	Note	Net income (Loss)	Comprehensive income (Loss)
Korean GAAP (Previous GAAP)		(Won) (19,855)	(Won) (56,124)
Reconciliation of transition effects			
Consolidation	(*1)	107,454	184,513
Property, plant and equipment	(*2)	(68,265)	(99,293)
Leases	(*3)	15,359	15,359
Revenue recognition	(*4)	41,835	41,835
Employee benefits	(*5)	(79,237)	(165,186)
Income taxes	(*6)	(20,551)	19,152
Other	(*7)	(45,907)	(51,990)
IFRS		(Won) (69,167)	(Won) (111,734)

**Notes to the Explanation of effects of transition to IFRS**

- (\*1) Effects of change in scope of consolidation and the effects of the adoption of IFRS by the Company's associates
- (\*2) Effects of revaluation of land, property, plant and equipment and investment property, which was used as deemed cost.
- (\*3) Application of lease accounting of arrangement, power purchase agreement ( PPA ) which contains a lease portion under IFRIC 4 *Determining whether an arrangement contains a lease*
- (\*4) Under Korean GAAP, the Company read meters and billed customers on a cycle basis. The Company did not accrue revenue for power sold to customers between the meter-reading date and end of the reporting period but recorded the revenue in the subsequent period. Such practice was consistent with the Accounting Regulations for Public Enterprise Associated Government Agency, which

## Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

has been approved by the Korean Ministry of Strategy and Finance (formerly the Korean Ministry of Finance and Economy) and considered by the utility industry in Korea as Korean GAAP. However, under IFRS, the Company estimates and recognizes unbilled revenue related to the sale of power between the meter-reading dates and the end of the reporting period.

F-41

**Table of Contents**

- (\*5) Effects of retirement benefit obligation & long-term employee benefits obligation
- (\*6) Effects of adjustments which are made for additional deferred income tax incurred from temporary differences of income tax of the subsidiaries in accordance with the IFRS, and reclassification of current deferred income tax to non-current, offsetting of deferred income tax asset and liability.
- (\*7) Other effects mainly consist of;

reclassification of membership which has unlimited period of validity to intangible assets with indefinite useful lives, and

derecognition of certain provisions which do not match the recognition criteria of IFRS, etc.

(d) Effects of IFRS transition adjustments in the consolidated statement of cash flows for the year ended December 31, 2010. Under IFRS, dividends received, interest received, interest paid and income taxes paid which were presented in aggregate under Korean GAAP, are now presented separately in the statement of cash flows. Except for the aforementioned items, there are no significant differences between the consolidated statement of cash flow prepared in accordance with Korean GAAP and IFRS.

- (e) For reclassification between operating and non-operating income in the statements of comprehensive income due to the adoption of IFRS, refer to Note 41 (2).

**5. SEGMENT INFORMATION**

The Company's segments are classified at the business unit level, at which the Company generates separately identifiable revenue and costs, and the related information is reported to the chief operating decision maker for the purpose of resource allocation and assessment of segment performance. The Company's reporting segments, in accordance with IFRS 8, are Electric power generation (nuclear), Electric power generation (non-nuclear), Transmission and distribution, and Others; others mainly represents the business unit that manages the Company's foreign operations.

Transactions that occur between the each segment are based on arms-length transactions priced at market price that would be applicable to an independent third-party. The accounting policies of the reportable segments are the same as the Company's accounting policies described in Note 2.

- (1) The Company's revenue and income (loss) for each operating segment for the years ended December 31, 2011 and 2010, respectively, are as follows (KRW in millions):

	2011		2010		2009	
	Total segment revenue	Intersegment revenue	Revenue from external customer	Operating income (loss)	Depreciation and amortization	
Electric power generation (Nuclear)	(Won) 6,611,937	(Won) 6,597,515	(Won) 14,421	(Won) 1,144,714	(Won) 2,422,121	
Electric power generation (Non-nuclear)	25,349,726	25,078,788	270,938	908,773	1,858,736	
	43,214,857	709,413	42,505,444	(2,993,785)	2,542,587	

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Transmission and distribution					
Others	2,490,709	1,749,210	741,499	409,312	69,424
Adjustment	(34,134,927)	(34,134,926)		(153,977)	(15,478)
	(Won) 43,532,302	(Won)	(Won) 43,532,302	(Won) (684,963)	(Won) 6,877,390

F-42



**Table of Contents**

	2010		2010		2010		2010			
	Total segment revenue		Intersegment revenue		Revenue from external customer		Operating income (loss)		Depreciation and amortization	
Electric power generation (Nuclear)	(Won)	5,829,582	(Won)	5,814,493	(Won)	15,089	(Won)	1,760,199	(Won)	1,935,972
Electric power generation (Non-nuclear)		23,561,102		23,302,116		258,986		1,599,596		2,253,030
Transmission and distribution		39,291,282		655,972		38,635,310		(1,312,517)		2,459,644
Others		2,283,943		1,686,745		597,197		367,710		59,292
Adjustment		(31,459,327)		(31,459,326)				(155,068)		(11,274)
	(Won)	39,506,582	(Won)		(Won)	39,506,582	(Won)	2,259,920	(Won)	6,696,664

- (2) The Company's assets and liabilities for each operating segment as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	Dec. 31, 2011			
	Segment assets	Investments in associates and joint venture	Acquisition of non-current assets	Segment liabilities
Electric power generation (Nuclear)	(Won) 40,041,048	(Won)	(Won) 3,336,956	(Won) 19,203,001
Electric power generation (Non-nuclear)	28,760,308	643,469	2,274,255	13,056,245
Transmission and distribution	94,769,898	3,804,910	4,704,812	50,330,593
Others	6,980,653	36,977	471,782	2,434,805
Adjustment	(34,084,057)		(134,803)	(2,360,744)
	(Won) 136,467,850	(Won) 4,485,356	(Won) 10,653,002	(Won) 82,663,900

	Dec. 31, 2010			
	Segment assets	Investments in associates and joint venture	Acquisition of non-current assets	Segment liabilities
Electric power generation (Nuclear)	(Won) 34,704,111	(Won)	(Won) 3,243,595	(Won) 15,609,917
Electric power generation (Non-nuclear)	29,909,788	189,558	2,073,914	12,914,055
Transmission and distribution	92,299,168	3,540,360	4,532,693	41,887,825
Others	6,161,138	35,913	809,069	1,992,377
Adjustment	(33,556,411)		(4,820)	(162,917)
	(Won) 129,517,794	(Won) 3,765,831	(Won) 10,654,451	(Won) 72,241,257

	Jan. 1, 2010			
	Segment assets	Investments in associates and joint venture	Acquisition of non-current assets	Segment liabilities

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Electric power generation (Nuclear)	(Won) 31,781,436	(Won)	(Won)	(Won) 13,726,615
Electric power generation (Non-nuclear)	29,598,311	114,562		13,332,164
Transmission and distribution	88,970,786	3,329,450		39,302,350
Others	4,970,728	35,798		1,385,274
Adjustment	(32,703,228)			(2,415,708)
	(Won) 122,618,033	(Won) 3,479,810	(Won)	(Won) 65,330,695

F-43

**Table of Contents**

## (3) Geographical information

The Company is engaged in the generation, transmission and distribution of electricity and development of electric power resources in the Republic of Korea. Geographical information on revenue from external and non-current assets is as follows:

	Revenue from external customer		Non-current assets(*2)	
	2011	2010	2011	2010
Domestic	(Won) 41,928,872	(Won) 38,133,778	(Won) 114,123,351	(Won) 109,163,273
Overseas(*1)	1,603,430	1,372,804	4,362,555	3,742,499
	(Won) 43,532,302	(Won) 39,506,582	(Won) 118,485,906	(Won) 112,905,772

(\*1) Middle East and Asia make up the majority of overseas income and non-current assets.

(\*2) Amount excludes financial assets and deferred tax assets.

## (4) Information on key clients

There is no individual client who makes up more than 10% of the Company's revenue for years ended December 31, 2011 and 2010.

6. CLASSIFICATION OF FINANCIAL INSTRUMENTS:

(1) Classification of financial Assets as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follow (KRW in millions):

	Dec. 31, 2011					Total
	FVTPL	Loans and receivables	Available-for-sale financial assets	Held-to-maturity Investments	Derivative assets (using hedge accounting)	
<b>Current Assets</b>						
Cash and cash equivalents	(Won)	(Won) 1,387,921	(Won)	(Won)	(Won)	(Won) 1,387,921
<b>Current financial assets</b>						
Held-to-maturity investments				334		334
Derivative assets	23,177					23,177
Other financial assets, net	10,121	736,907				747,028
Accounts and other Receivables, net		7,632,497				7,632,497
	33,298	9,757,325		334		9,790,957
<b>Non-current Assets</b>						
Non-current financial assets						

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Available-for-sale financial assets			1,173,085			1,173,085
Held-to-maturity investments				1,986		1,986
Derivative assets	124,571				321,671	446,242
Other financial assets, net		577,719				577,719
Accounts and other Receivables, net		1,284,532				1,284,532
	124,571	1,862,251	1,173,085	1,986	321,671	3,483,564
	(Won) 157,869	(Won) 11,619,576	(Won) 1,173,085	(Won) 2,320	(Won) 321,671	(Won) 13,274,521

F-44

**Table of Contents**

<b>Dec. 31, 2010</b>							
	<b>FVTPL</b>	<b>Loans and receivables</b>	<b>Available-for-sale financial assets</b>	<b>Held-to-maturity Investments</b>	<b>Derivative assets (using hedge accounting)</b>	<b>Total</b>	
<b>Current Assets</b>							
Cash and cash equivalents	(Won)	(Won) 2,090,051	(Won)	(Won)	(Won)	(Won)	2,090,051
<b>Current financial assets</b>							
Held-to-maturity investments				509			509
Derivative assets	42,737				62,157		104,894
Other financial assets, net		618,019					618,019
Accounts and other Receivables, net		6,612,377					6,612,377
	42,737	9,320,447		509	62,157		9,425,850
<b>Non-current Assets</b>							
<b>Non-current financial assets</b>							
Available-for-sale financial assets			1,343,204				1,343,204
Held-to-maturity investments				2,142			2,142
Derivative assets	86,110				275,262		361,372
Other financial assets, net		750,714					750,714
Accounts and other Receivables, net		846,318					846,318
	86,110	1,597,032	1,343,204	2,142	275,262		3,303,750
	(Won) 128,847	(Won) 10,917,479	(Won) 1,343,204	(Won) 2,651	(Won) 337,419		(Won) 12,729,600

<b>Jan. 1, 2010</b>							
	<b>FVTPL</b>	<b>Loans and receivables</b>	<b>Available-for-sale financial assets</b>	<b>Held-to-maturity Investments</b>	<b>Derivative assets (using hedge accounting)</b>	<b>Total</b>	
<b>Current Assets</b>							
Cash and cash equivalents	(Won)	(Won) 1,475,684	(Won)	(Won)	(Won)	(Won)	1,475,684
<b>Current financial assets</b>							
Held-to-maturity investments				441			441
Derivative assets	79,022				248,296		327,318
Other financial assets, net	5,042	430,950					435,992
Accounts and other Receivables, net		5,982,542					5,982,542
	84,064	7,889,176		441	248,296		8,221,977
<b>Non-current Assets</b>							

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Non-current financial assets

Available-for-sale financial assets			735,195			735,195
Held-to-maturity investments				2,330		2,330
Derivative assets	135,360				417,419	552,779
Other financial assets, net		515,805				515,805
Accounts and other Receivables, net		1,026,130				1,026,130
	135,360	1,541,935	735,195	2,330	417,419	2,832,239
	(Won) 219,424	(Won) 9,431,111	(Won) 735,195	(Won) 2,771	(Won) 665,715	(Won) 11,054,216

F-45

**Table of Contents**

- (2) Classification of financial liabilities as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follow (KRW in millions):

	FVTPL	Dec. 31, 2011		Others	Total
		Financial liabilities recorded at amortized cost	Derivative liabilities (using hedge accounting)		
<b>Current Liabilities</b>					
Borrowings, net	(Won)	(Won) 2,101,590	(Won)	(Won)	(Won) 2,101,590
Debentures, net		4,904,455			4,904,455
Exchangeable bonds, net					
Derivative liabilities	19,697		168		19,865
Accounts and other					
Payables, net		6,576,158			6,576,158
	19,697	13,582,203	168		13,602,068
<b>Non-current Liabilities</b>					
Borrowings, net		4,641,319			4,641,319
Debentures, net		34,557,180			34,557,180
Exchangeable bonds, net					
Derivative liabilities	110,272		94,807		205,079
Accounts and other					
Payables, net		4,178,137			4,178,137
	110,272	43,376,636	94,807		43,581,715
	(Won) 129,969	(Won) 56,958,839	(Won) 94,975	(Won)	(Won) 57,183,783

	FVTPL	Dec. 31, 2010		Others	Total
		Financial liabilities recorded at Amortized cost	Derivative liabilities (using hedge accounting)		
<b>Current Liabilities</b>					
Borrowings, net	(Won)	(Won) 1,811,783	(Won)	(Won)	(Won) 1,811,783
Debentures, net		4,883,370			4,883,370
Exchangeable bonds, net		73,957			73,957
Derivative liabilities	9,886		3,887		13,773
Accounts and other					
Payables, net		4,571,145			4,571,145
	9,886	11,340,255	3,887		11,354,028
<b>Non-current Liabilities</b>					
Borrowings, net		2,822,902			2,822,902
Debentures, net		30,025,022			30,025,022
Exchangeable bonds, net					
Derivative liabilities	162,847		41,695		204,542
Accounts and other		5,280,924			5,280,924

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Payables, net

162,847

38,128,848

41,695

38,333,390

(Won) 172,733

(Won) 49,469,103

(Won) 45,582

(Won)

(Won) 49,687,418

F-46



**Table of Contents**

	FVTPL	Jan. 1, 2010		Total
		Financial liabilities recorded at Amortized cost	Derivative liabilities (using hedge accounting)	
<b>Current Liabilities</b>				
Borrowings, net	(Won)	(Won) 2,446,177	(Won)	(Won) 2,446,177
Debentures, net		3,775,653		3,775,653
Exchangeable bonds, net				
Derivative liabilities	3,017			3,017
Accounts and other Payables, net		4,166,228		4,166,228
	3,017	10,388,058		10,391,075
<b>Non-current Liabilities</b>				
Borrowings, net		2,491,492		2,491,492
Debentures, net		25,436,692		25,436,692
Exchangeable bonds, net		69,103		69,103
Derivative liabilities	18,091		18,863	36,954
Accounts and other Payables, net		5,245,490		5,245,490
	18,091	33,242,777	18,863	33,279,731
	(Won) 21,108	(Won) 43,630,835	(Won) 18,863	(Won) 43,670,806

- (3) Classification of comprehensive income (loss) from financial instruments for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

		2011	2010
Cash and cash equivalents	Interest income	(Won) 72,534	(Won) 63,518
Available-for-sale financial assets	Dividends income	18,894	3,341
Held-to-maturity investments	Interest income	85	90
Loans and receivables	Interest income	202,104	35,291
Accounts and other receivables	Interest income	16,902	21,523
Derivatives assets (trading)	Gain (loss) on valuation of derivatives	98,006	(5,458)
	Gain (loss) on transaction of derivatives	(5,257)	(31,818)
Derivative assets (using hedge accounting)	Gain (loss) on valuation of derivatives	52,491	(30,381)
	Gain (loss) on valuation of derivatives Other comprehensive income (loss)	8,791	(63,447)
	Gain (loss) on transaction of derivatives	7,378	52,721
Financial liabilities recorded at amortized cost	Interest expense of borrowings and debentures	(2,241,771)	(1,939,804)
	Interest expense of accounts and other payables	(147,882)	(268,120)
Derivative liabilities (trading)	Gain (loss) on valuation of derivatives	(27,639)	(154,857)
	Gain (loss) on transaction of derivatives	(37,498)	(24,713)
Derivative liabilities (using hedge accounting)	Gain (loss) on valuation of derivatives	2,158	(17,111)
	Gain (loss) on valuation of derivatives Other comprehensive income (loss)	(36,927)	5,164
		(14,332)	15,283

Gain (loss) on transaction of  
derivatives

F-47

**Table of Contents****7. RESTRICTED DEPOSITS**

Restricted deposits as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows

(KRW in millions):

		<b>Dec. 31, 2011</b>	<b>Dec. 31, 2010</b>	<b>Jan. 1, 2010</b>
Cash and cash equivalents	Escrow accounts	(Won) 79,370	(Won) 74,220	(Won) 65,858
Cash and cash equivalents	Others	328	445	115
Long-term financial instruments	Payment guarantees for			
	borrowings and others			125,449
Long-term financial instruments	Guarantee deposit for			
	checking account	331	5	5
		(Won) 80,029	(Won) 74,670	(Won) 191,427

**8. CASH AND CASH EQUIVALENTS:**

Cash and cash equivalents include cash on hand and in banks, net of outstanding bank overdrafts. The Company considers short-term financial instruments with maturities of three months or less at the acquisition date to be cash equivalents.

Cash and cash equivalents as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	<b>Dec. 31, 2011</b>	<b>Dec. 31, 2010</b>	<b>Jan. 1, 2010</b>
Demand deposit	(Won) 671,038	(Won) 488,683	(Won) 689,817
Cash equivalents	716,883	1,601,368	785,867
	(Won) 1,387,921	(Won) 2,090,051	(Won) 1,475,684

(\*) Demand deposits includes government grants for specified purpose in the amount of KRW 17,653 million, KRW 13,297 million and KRW 10,431 million, as of December 31, 2011, December 31, 2010 and January 1, 2010, respectively.

**9. ACCOUNTS AND OTHER RECEIVABLES:**

(1) Accounts and other receivables as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	<b>Dec. 31, 2011</b>			
	<b>Gross receivables</b>	<b>Allowance for doubtful accounts</b>	<b>Present value discount</b>	<b>Book value</b>
<b>Current Asset:</b>				
Accounts receivables	(Won) 6,292,468	(Won) (24,586)	(Won) (832)	(Won) 6,267,050
Other receivables	1,413,653	(46,373)	(1,833)	1,365,447

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

	7,706,121	(70,959)	(2,665)	7,632,497
Non-current Asset:				
Accounts receivables	505,636		(560)	505,076
Other receivables	943,376	(156,824)	(7,096)	779,456
	1,449,012	(156,824)	(7,656)	1,284,532
	(Won) 9,155,133	(Won) (227,783)	(Won) (10,321)	(Won) 8,917,029

F-48

**Table of Contents**

<b>Dec. 31, 2010</b>				
	<b>Gross receivables</b>	<b>Allowance for doubtful accounts</b>	<b>Present value discount</b>	<b>Book value</b>
<b>Current Asset:</b>				
Accounts receivables	(Won) 5,262,876	(Won) (29,298)	(Won) (572)	(Won) 5,233,006
Other receivables	1,397,179	(17,507)	(301)	1,379,371
	6,660,055	(46,805)	(873)	6,612,377
<b>Non-current Asset:</b>				
Accounts receivables	516,941		(452)	516,489
Other receivables	442,233	(107,115)	(5,289)	329,829
	959,174	(107,115)	(5,741)	846,318
	(Won) 7,619,229	(Won) (153,920)	(Won) (6,614)	(Won) 7,458,695

<b>Jan. 1, 2010</b>				
	<b>Gross receivables</b>	<b>Allowance for doubtful accounts</b>	<b>Present value discount</b>	<b>Book value</b>
<b>Current Asset:</b>				
Accounts receivables	(Won) 4,708,799	(Won) (31,658)	(Won) (652)	(Won) 4,676,489
Other receivables	1,330,297	(24,080)	(164)	1,306,053
	6,039,096	(55,738)	(816)	5,982,542
<b>Non-current Asset:</b>				
Accounts receivables	544,379		(712)	543,667
Other receivables	536,599	(53,603)	(533)	482,463
	1,080,978	(53,603)	(1,245)	1,026,130
	(Won) 7,120,074	(Won) (109,341)	(Won) (2,061)	(Won) 7,008,672

(2) Other receivables as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

<b>Dec. 31, 2011</b>				
	<b>Gross receivables</b>	<b>Allowance for doubtful accounts</b>	<b>Present value discount</b>	<b>Book value</b>
<b>Current Asset:</b>				
Non-trade receivables	(Won) 1,230,829	(Won) (46,373)	(Won)	(Won) 1,184,456
Accrued income	39,358			39,358
Deposits	130,473		(1,833)	128,640
Finance leases receivables	9,279			9,279
Others	3,714			3,714
	1,413,653	(46,373)	(1,833)	1,365,447
<b>Non-current Asset:</b>				
Non-trade receivables	11,937	(591)		11,346
Accrued income				
Deposits	206,470		(7,096)	199,374
Finance leases receivables	366,262			366,262

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Loans for oversea business	305,980	(156,233)		149,747
Others	52,727			52,727
	943,376	(156,824)	(7,096)	779,456
	(Won) 2,357,029	(Won) (203,197)	(Won) (8,929)	(Won) 2,144,903

F-49

**Table of Contents**

<b>Dec. 31, 2010</b>				
	<b>Gross receivables</b>	<b>Allowance for doubtful accounts</b>	<b>Present value discount</b>	<b>Book value</b>
<b>Current Asset:</b>				
Non-trade receivables	(Won) 1,157,335	(Won) (15,303)	(Won)	(Won) 1,142,032
Accrued income	56,503	(2,204)		54,299
Deposits	180,887		(301)	180,586
Finance leases receivables				
Others	2,454			2,454
	1,397,179	(17,507)	(301)	1,379,371
<b>Non-current Asset:</b>				
Non-trade receivables	1,858			1,858
Accrued income				
Deposits	98,736		(5,289)	93,447
Finance leases receivables				
Loans for overseas business	286,233	(107,115)		179,118
Others	55,406			55,406
	442,233	(107,115)	(5,289)	329,829
	(Won) 1,839,412	(Won) (124,622)	(Won) (5,590)	(Won) 1,709,200

<b>Jan. 1, 2010</b>				
	<b>Gross receivables</b>	<b>Allowance for doubtful accounts</b>	<b>Present value discount</b>	<b>Book value</b>
<b>Current Asset:</b>				
Non-trade receivables	(Won) 1,155,593	(Won) (23,452)	(Won)	(Won) 1,132,141
Accrued income	48,734	(628)		48,106
Deposits	123,935		(164)	123,771
Finance leases receivables				
Others	2,035			2,035
	1,330,297	(24,080)	(164)	1,306,053
<b>Non-current Asset:</b>				
Non-trade receivables	3,690			3,690
Accrued income				
Deposits	151,881		(533)	151,348
Finance leases receivables				
Loans for overseas business	307,468	(53,603)		253,865
Others	73,560			73,560
	536,599	(53,603)	(533)	482,463
	(Won) 1,866,896	(Won) (77,683)	(Won) (697)	(Won) 1,788,516

Accounts and other receivables are classified as loans and other accounts receivables, and are measured at effective interest method. No interest is accrued for trade receivables for the duration between the billing date and the payment due dates. But once trade receivables are overdue, the Company imposes a 1.5% interest on the first month and 1.0% interest per month from the second month onwards.

Receivables stated above include overdue receivables as of the reporting period end. However, certain overdue receivables are still considered to be reasonably collectable. As such, the Company does not record any allowances related to such overdue receivables considered to be reasonably collectable. Furthermore, the Company does not have any collateral, or received any other credit enhancement or hold any rights to





**Table of Contents**

offset with the counterparty. However, the Company holds deposits of three months expected electricity rate for customers requesting temporary usage and customers with past defaulted payment.

(3) Aging analysis of accounts receivables as of December 31, 2011 and 2010 are as follows (KRW in millions):

	2011	2010
Account receivables: (not overdue, not impaired)	(Won) 6,748,327	(Won) 5,721,049
Account receivables : (overdue, not impaired)		
60 ~ 90 days	17,631	18,702
90 ~ 120 days	5,216	6,501
120 days ~ 1 year	15,851	15,938
Over 1 year	8,641	14,803
Account receivables : (impaired)		
Less than 60 days	156	17
60 ~ 90 days	2	9
90 ~ 120 days	3	16
120 days ~ 1 year	246	1,633
Over 1 year	2,031	1,149
	6,798,104	5,779,817
Less: Allowance for doubtful accounts	(24,586)	(29,298)
Less: Present value discount	(1,392)	(1,024)
	(Won) 6,772,126	(Won) 5,749,495

The Company considers receivables as overdue if the receivables are outstanding 60 days after the maturity. The Company sets allowance based on historical collection rate.

(4) Aging analysis of other receivables as of December 31, 2011 and 2010 are as follows:

	2011	2010
Other receivables: (not overdue, not impaired)	(Won) 2,136,076	(Won) 1,690,622
Other receivables: (overdue, not impaired)		
60 ~ 90 days	2,134	1,606
90 ~ 120 days	1,721	1,127
120 days ~ 1year	7,486	494
Over 1 year	13,220	29,425
Other receivables: (impaired)		
Less than 60 days	15	2
60 ~ 90 days		1
90 ~ 120 days		1
120 days ~ 1year	24	157
Over 1 year	196,353	115,977
	2,357,029	1,839,412
Less: Allowance for doubtful accounts	(203,197)	(124,622)
Less: Present value discount	(8,929)	(5,590)



**Table of Contents**

(5) Changes in allowance for doubtful accounts for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	2011		2010	
	Accounts Receivables	Other Receivables	Accounts Receivables	Other Receivables
Beginning balance	(Won) 29,298	(Won) 124,622	(Won) 31,658	(Won) 77,683
Bad debt expense	8,022	7,114	12,754	815
Write off	(12,274)	(1,780)	(14,740)	(1,289)
Reversal	(460)		(374)	(6,578)
Others		73,242		53,991
Ending balance	(Won) 24,586	(Won) 203,198	(Won) 29,298	(Won) 124,622

10. AVAILABLE-FOR-SALE FINANCIAL ASSETS

(1) Available-for-sale financial assets as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	Ownership (%)	Dec. 31, 2011		Dec. 31, 2010		Jan. 1, 2010				
		Current	Non-Current	Current	Non-Current	Current	Non-Current			
<b>Equity Securities</b>										
Listed:										
Kwanglim Co., Ltd.	0.60%	(Won)	(Won)	176	(Won)	(Won)	169	(Won)	(Won)	118
Sungjee Construction. Co., Ltd.	0.003%			15						
Korea District Heating Corp.	19.55%			141,504			179,541			
Ssangyong Motor Co., Ltd.	0.00%			196			325			
LG Uplus Corporation (formerly LG Telecom)	7.46%			284,229			275,395			
FISSION Energy Corporation	0.79%			802			911			212
Denison Mines Corporation	15.08%			83,217			225,206			84,750
PT Adaro Energy Tbk	1.50%			108,460			152,804			102,804
Cockatoo Coal Ltd.	2.94%			21,994			30,612			18,296
				640,593			864,963			206,180
Unlisted:										
Construction Guarantee	0.02%			601			601			601
Global Dynasty overseas resource development private equity firm	7.14%			357			85			
Plant & Mechanical Contractors Financial Cooperative of Korea	0.01%			36			36			36
Fire Guarantee	0.02%			20			20			
Korea Software Financial Cooperative	0.23%			301			301			301
C&Woobang ENC Co., Ltd.	0.0004%			22						
Women s venture fund	10.00%			1,000			1,000			1,000
Engineering Financial Cooperative	0.07%			44			44			44
Intellectual Discovery, Ltd	14.30%			5,000						
	0.03%			151			151			151



**Table of Contents**

	Ownership (%)	Dec. 31, 2011		Dec. 31, 2010		Jan. 1, 2010	
		Current	Non-Current	Current	Non-Current	Current	Non-Current
Korea Specialty Contractor Financial Cooperative	0.01%		177		177		177
Information & Communication Financial Cooperative	0.01%		10		10		10
Troika overseas resource development private equity firm	3.66%		8,372		194		
POSTECH Venture Capital Corporation	1.05%		240		300		300
POSTECH electric power fund	12.28%		2,800		3,500		3,500
Korea Electric Engineers Association	0.28%		40		40		40
Korea electrical manufacturers Association	1.05%		240		300		300
Korea Engineering & Consulting Association	0.02%		16		16		16
Korea investment Korea EXIM Bank CERs private special asset Investment Trust I.	19.30%		6,803		6,803		40
Hanwha Venture Capital Corporation	1.20%		180		300		300
Hanwha electric power venture Fund	15.20%		2,280		3,800		3,800
Hwan Young Steel Co., Ltd.	0.10%		97		97		97
IBK-AUCTUS green growth Private equity firm	6.30%		7,060		3,500		
K&C- Gyeongnam youth job Creation investment fund	10.00%		1,660		2,000		2,000
Areva NC Expansion	15.00%		254,744		258,069		285,465
Green & Sustainable Energy InvestmentCorp.,(*1)	20.00%		14		4		
Kanan Hydroelectric Power Corp.,(*1)	20.00%		19		5		
SET Holdings	2.50%		238,561		195,262		229,255
3i Powergen Inc.,	15.00%		1,647		1,626		1,582
			532,492		478,241		529,015
		(Won)	(Won) 1,173,085	(Won)	(Won) 1,343,204	(Won)	(Won) 735,195

(\*1) Although the Company holds more than 20% of the equity shares of these investments, the Company cannot exercise significant influence by virtue of its contractual right to appoint directors to the board of directors of the entity.

(2) The fair value and acquisition cost of available-for-sale financial assets as of December 31, 2011 and December 31, 2010 are as follows (KRW in millions):

Type	Dec 31, 2011		Dec 31, 2010	
	Acquisition cost	Fair value	Acquisition cost	Fair value
Equity securities	(Won) 1,229,203	(Won) 1,173,085	(Won) 1,222,586	(Won) 1,343,204

**Table of Contents**11. HELD-TO-MATURITY INVESTMENTS:

Held-to-maturity investments as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	Dec. 31, 2011		Dec. 31, 2010		Jan. 1, 2010	
	Current	Non-Current	Current	Non-Current	Current	Non-Current
Government and municipal bonds	(Won) 334	(Won) 1,986	(Won) 509	(Won) 2,142	(Won) 441	(Won) 2,330
	(Won) 334	(Won) 1,986	(Won) 509	(Won) 2,142	(Won) 441	(Won) 2,330

12. DERIVATIVES:

(1) Derivatives as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

DERIVATIVE ASSETS:	Dec. 31, 2011		Dec. 31, 2010		Jan. 1, 2010	
	Current	Non-Current	Current	Non-Current	Current	Non-Current
Currency forward	(Won) 8,410	(Won)	(Won) 2,108	(Won)	(Won) 23	(Won)
Currency swap	10,756	438,900	99,970	354,923	327,295	549,271
Interest rate swap			2,816	6,449		3,508
Other derivatives	4,011	7,342				
	(Won) 23,177	(Won) 446,242	(Won) 104,894	(Won) 361,372	(Won) 327,318	(Won) 552,779

DERIVATIVE LIABILITIES:	Dec. 31, 2011		Dec. 31, 2010		Jan. 1, 2010	
	Current	Non-Current	Current	Non-Current	Current	Non-Current
Currency forward	1,864	2,350	775		226	
Currency swap	8,288	124,202	7,507	191,821		29,108
Interest rate swap	1,934	78,527	5,281	12,721	2,791	6,427
Other derivatives	7,779		210			1,419
	(Won) 19,865	(Won) 205,079	(Won) 13,773	(Won) 204,542	(Won) 3,017	(Won) 36,954

(2) Currency swap contracts which are not designated as hedge instruments, as of December 31, 2011 are as follows (KRW in millions, USD in thousands, JPY in thousands):

Counterparty	Contract amounts		Contract interest rate		Contract exchange rate		
	Contract year	Pay	Receive	Pay		Receive	
Morgan Stanley	2010	2012	KRW 120,000	USD 100,000	3.75%	3M USD Libor + 1.90%	1,200.00
Morgan Stanley	2010	2015	KRW 118,800	USD 100,000	4.61%	3M USD Libor + 1.64%	1,188.00
ING	2010	2012	KRW 117,900	USD 100,000	3.64%	6M USD Libor + 1.37%	1,179.00

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

M-UFJ	2010	2015	KRW 116,100	USD 100,000	4.00%	3M USD Libor + 1.00%	1,161.00
DBS	2011	2014	KRW 56,150	USD 50,000	4.21%	3M USD Libor + 1.00%	1,123.00
SMBC	2011	2014	KRW 56,150	USD 50,000	4.21%	3M USD Libor + 1.00%	1,123.00
Mizuho	2011	2014	KRW 112,800	USD 100,000	3.86%	3M USD Libor + 0.80%	1,128.00

F-54

**Table of Contents**

Counterparty	Contract year		Contract amounts			Contract interest rate		Contract exchange rate
			Pay	Receive	Pay	Receive		
DBS	2011	2014	KRW 109,500	USD 100,000	3.80%	3M USD Libor + 0.85%	1,095.00	
Barclays	2008	2013	KRW 187,020	USD 200,000	7.50%	7.75%	935.10	
Credit Suisse	2008	2013	KRW 140,265	USD 150,000	6.94%	7.75%	935.10	
Shinhan Bank	2010	2014	KRW 84,615	USD 75,000	6.83%	5.50%	1,128.20	
RBS	2010	2014	KRW 141,125	USD 125,000	6.78%	5.50%	1,129.00	
Morgan Stanley	2010	2014	KRW 112,320	USD 100,000	6.71%	5.50%	1,123.20	
HSBC	2010	2014	KRW 112,320	USD 100,000	6.71%	5.50%	1,123.20	
BOA	2010	2014	KRW 110,310	USD 100,000	6.93%	5.50%	1,103.10	
UBS	2011	2015	KRW 220,356	USD 200,000	3.90%	3.00%	1,101.78	
RBS	2011	2015	KRW 110,110	USD 100,000	3.90%	3.00%	1,101.10	
Barclays	2011	2015	KRW 108,390	USD 100,000	3.78%	3.00%	1,083.90	
Credit Suisse	2011	2015	KRW 108,390	USD 100,000	3.78%	3.00%	1,083.90	
Morgan Stanley	2011	2015	KRW 63,006	USD 60,000	4.06%	3.00%	1,050.10	
BTMU	2009	2012	KRW 138,018	JPY 10,000,000	4.10%	3M EuroYen Tibor + 2.50%	13.80	
Deutsche Bank	2009	2014	KRW 126,610	USD 100,000	5.39%	6.25%	1,266.10	
Nomura Securities	2009	2014	KRW 126,610	USD 100,000	5.35%	6.25%	1,266.10	
Nomura Securities	2009	2014	KRW 126,610	USD 100,000	5.33%	6.25%	1,266.10	
Morgan Stanley	2009	2014	KRW 126,610	USD 100,000	5.32%	6.25%	1,266.10	
Morgan Stanley	2010	2014	KRW 126,610	USD 100,000	5.30%	6.25%	1,266.10	
Barclays	2010	2014	KRW 126,610	USD 100,000	5.29%	6.25%	1,266.10	
CITI	2010	2014	KRW 126,610	USD 100,000	5.27%	6.25%	1,266.10	
JP Morgan	2010	2014	KRW 126,610	USD 100,000	4.93%	6.25%	1,266.10	
Deutsche Bank	2010	2014	KRW 126,610	USD 100,000	4.93%	6.25%	1,266.10	
RBS	2010	2014	KRW 126,610	USD 100,000	4.93%	6.25%	1,266.10	
DBS	2010	2013	KRW 226,900	USD 200,000	3.70%	3M USD Libor + 0.25%	1,134.50	
SMBC	2010	2013	KRW 113,400	USD 100,000	3.92%	3M USD Libor + 0.90%	1,134.00	
BTMU	2010	2013	KRW 56,525	USD 50,000	3.92%	3M USD Libor + 0.90%	1,130.50	
Mizuho	2010	2013	KRW 56,750	USD 50,000	3.92%	3M USD Libor + 0.90%	1,135.00	
CITI	2010	2015	KRW 116,080	USD 100,000	3.97%	3.13%	1,160.80	
Deutsche Bank	2010	2015	KRW 116,080	USD 100,000	3.98%	3.13%	1,160.80	
RBS	2010	2015	KRW 116,080	USD 100,000	3.97%	3.13%	1,160.80	
HSBC	2010	2015	KRW 116,080	USD 100,000	3.23%	3.13%	1,160.80	
UBS	2010	2015	KRW 116,080	USD 100,000	3.23%	3.13%	1,160.80	



**Table of Contents**

- (3) Currency swap contracts which are designated as hedge instruments, as of December 31, 2011 are as follows (KRW in millions, USD in thousands):

Counterparty	Contract year		Contract amounts		Contract interest rate		Contract exchange rate
			Pay	Receive	Pay	Receive	
Credit Suisse	2009	2013	KRW 197,475	USD 150,000	5.12%	4.75%	1,316.50
Credit Suisse	2006	2016	KRW 94,735	USD 100,000	5.26%	6.00%	947.35
Barclays	2006	2016	KRW 94,735	USD 100,000	5.26%	6.00%	947.35
Citibank	2006	2016	KRW 94,735	USD 100,000	5.24%	6.00%	947.35
Goldman Sachs	2011	2017	KRW 105,260	USD 100,000	3.99%	3.63%	1,052.60
Citibank	2011	2017	KRW 105,260	USD 100,000	3.99%	3.63%	1,052.60
Barclays	2011	2017	KRW 105,260	USD 100,000	3.99%	3.63%	1,052.60
UBS	2006	2016	KRW 98,100	USD 100,000	5.48%	5.50%	981.00
Credit Suisse	2006	2016	KRW 98,100	USD 100,000	5.48%	5.50%	981.00
Citi Group	2008	2013	KRW 113,304	USD 120,000	4.96%	5.38%	944.20
Goldman Sachs	2008	2013	KRW 113,304	USD 120,000	4.96%	5.38%	944.20
Barclays	2008	2013	KRW 56,652	USD 60,000	4.96%	5.38%	944.20
Barclays	2006	2016	KRW 71,888	USD 75,000	4.81%	5.50%	958.51
Deutsche Bank	2006	2016	KRW 71,888	USD 75,000	4.81%	5.50%	958.51
Barclays	2004	2014	KRW 172,875	USD 150,000	5.10%	5.75%	1,152.50
RBS	2008	2013	KRW 149,040	USD 150,000	5.03%	5.38%	993.60
Deutsche Bank	2008	2013	KRW 149,040	USD 150,000	5.03%	5.38%	993.60
BTMU	2010	2013	KRW 113,200	USD 100,000	4.11%	3M USD Libor + 0.80%	1,132.00
BTMU	2010	2015	KRW 55,900	USD 50,000	4.03%	3M USD Libor + 1.20%	1,118.00

- (4) Interest rate swap contracts which are not designated as hedge instruments, as of December 31, 2011 are as follows (KRW in millions):

Counterparty	Contract year		Contract amounts	Contract interest rate per annum	
				Pay	Receive
Korea Exchange Bank	2010	2013	100,000	4.18%	3M CD + 0.58%
Nonghyup Bank	2010	2015	100,000	4.90%	3M CD + 1.05%
Nonghyup Bank	2010	2015	100,000	4.83%	3M CD + 0.90%
Nonghyup Bank	2010	2015	50,000	4.77%	3M CD + 0.90%
Korea Exchange Bank	2011	2014	100,000	4.08%	3M CD + 0.03%
Korea Exchange Bank	2011	2012	100,000	3.93%	3M CD + 0.04%
Korea Exchange Bank	2011	2014	100,000	3.89%	3M CD + 0.05%
Korea Exchange Bank	2011	2013	100,000	3.89%	3M CD + 0.07%
Shinhan Bank	2011	2014	100,000	3.63%	3M CD + 0.18%
Korea Exchange Bank	2011	2013	100,000	3.85%	3M CD + 0.43%
Woori Bank	2011	2013	150,000	3.92%	3M CD + 0.43%
Kookmin Bank	2011	2013	100,000	3.84%	3M CD + 0.44%
Hana Bank	2011	2013	50,000	3.67%	3M CD + 0.25%
Korea Exchange Bank	2011	2014	200,000	3.66%	3M CD + 0.24%
Korea Exchange Bank	2011	2013	100,000	3.53%	3M CD + 0.14%
Korea Exchange Bank	2011	2013	100,000	3.56%	3M CD + 0.19%
Shinhan Bank	2011	2012	100,000	3.60%	3M CD + 0.08%
Korea Exchange Bank	2009	2012	100,000	4.88%	3M CD + 0.54%
RBS	2009	2012	100,000	4.79%	3M CD + 0.55%
Korea Exchange Bank	2010	2013	100,000	4.11%	3M CD + 0.25%



**Table of Contents**

- (5) Interest rate swap contracts which are designated as hedge instruments, as of December 31, 2011 are as follows ( JOD in thousands, MXN in thousands):

Counterparty	Contract year		Contract amounts	Pay	Contract interest rate per annum	
					Receive	
BNP Paribas	2009	2027	JOD 119,335	4.16%	6M USD Libor	
KFW	2009	2027	JOD 119,335	4.16%	6M USD Libor	
Credit Agricole	2011	2012	MXN 33,750	1.33%	6M USD Libor	
SMBC	2011	2012	MXN 41,250	1.33%	6M USD Libor	
Credit Agricole	2011	2012	MXN 4,990	3.98%	6M USD Libor	
SMBC	2011	2012	MXN 4,990	4.06%	6M USD Libor	
Credit Agricole	2011	2012	MXN 6,604	4.10%	6M USD Libor	
SMBC	2011	2012	MXN 6,604	4.18%	6M USD Libor	
Credit Agricole	2011	2012	MXN 13,355	4.10%	6M USD Libor	
SMBC	2011	2012	MXN 13,355	4.05%	6M USD Libor	

- (6) Currency forward contracts which are not designated as hedge instruments as of December 31, 2011 are as follows (KRW in millions, USD in thousands):

Counterparty	Contract date	Maturity date	Contract amounts		Contract exchange rate
			Pay	Receive	
RBS	2011.10.25	2012.01.03	KRW 11,835	USD 10,664	1,109.80
RBS	2011.10.25	2012.01.04	KRW 13,928	USD 12,550	1,109.80
RBS	2011.10.25	2012.01.09	KRW 6,524	USD 5,878	1,109.80
RBS	2011.10.25	2012.01.10	KRW 13,185	USD 11,881	1,109.80
RBS	2011.10.25	2012.01.17	KRW 49,319	USD 44,440	1,109.80
RBS	2011.10.25	2012.02.09	KRW 13,078	USD 11,784	1,109.80
RBS	2011.10.25	2012.02.14	KRW 14,229	USD 12,822	1,109.80
RBS	2011.10.25	2012.02.27	KRW 8,097	USD 7,296	1,109.80
RBS	2011.10.25	2012.03.19	KRW 28,421	USD 25,610	1,109.80
RBS	2011.10.25	2012.03.20	KRW 11,133	USD 10,032	1,109.80
RBS	2011.10.25	2012.03.22	KRW 6,067	USD 5,467	1,109.80
RBS	2011.10.25	2012.03.27	KRW 13,024	USD 11,735	1,109.80
RBS	2011.10.25	2012.04.02	KRW 8,878	USD 8,000	1,109.80
RBS	2011.10.25	2012.04.09	KRW 12,448	USD 11,216	1,109.80
Credit Suisse	2011.12.29	2012.02.03	KRW 5,764	USD 5,000	1,152.70
HSBC	2011.11.21	2012.02.29	USD 10,000	KRW 11,460	1,146.00
HSBC	2011.11.10	2012.01.31	USD 10,000	KRW 11,401	1,140.10
HSBC	2011.11.23	2012.03.30	USD 20,000	KRW 23,130	1,156.50
Barclays	2011.11.22	2012.03.30	USD 20,000	KRW 23,100	1,155.00
RBS	2011.11.03	2012.01.31	USD 10,000	KRW 11,396	1,139.60
RBS	2011.11.10	2012.01.31	USD 10,000	KRW 11,400	1,140.00
Deutsche Bank	2011.11.03	2012.01.31	USD 20,000	KRW 22,729	1,136.47
Credit Agricole	2011.11.03	2012.01.31	USD 20,000	KRW 22,748	1,137.40
Credit Agricole	2011.11.10	2012.01.31	USD 10,000	KRW 11,404	1,140.40
UBS	2011.12.15	2012.02.29	USD 20,000	KRW 23,292	1,164.60
Credit Agricole	2011.11.21	2012.02.29	USD 10,000	KRW 11,465	1,146.50
RBS	2011.11.28	2012.01.31	KRW 1,516	USD 1,308	1,158.90
Korea Exchange Bank	2011.12.29	2012.01.06	KRW 9,254	USD 8,000	1,156.73
Korea Exchange Bank	2011.12.28	2012.01.09	KRW 8,107	USD 7,000	1,158.15
UBS	2011.12.29	2012.02.03	KRW 5,771	USD 5,000	1,154.25
Credit Suisse	2011.12.29	2012.02.03	KRW 11,540	USD 10,000	1,154.00
RBS	2011.12.29	2012.02.03	KRW 11,549	USD 10,000	1,154.85



**Table of Contents**

- (7) Other derivatives which are not designated as hedge instruments as of December 31, 2011 are as follows (KRW in millions, USD in thousands):

(a) Currency Options

Counterparty	Contract date	Maturity date	Contract amounts(*1)				Contract exercise price	Barrier
			Call-Purchase price		Put-Sale price			
RBS	2011.06.14	2012.11.13	USD	85,000	USD	170,000	1,036	1,118
Barclays	2011.06.14	2012.11.13	USD	40,000	USD	80,000	KRW/USD	KRW/USD
BNP Paribas	2011.06.14	2012.11.13	USD	25,000	USD	50,000		

- (\*1) According to the currency option contracts, the Company must purchase USD 2 million if the foreign exchange rate is below 1,036 KRW/USD each week. If foreign exchange rate exceeds the barrier, there will be no purchase amount.

(b) Target Redemption Forwards and others

Counterparty	Contract date	Maturity date	Contract exercise price	Contract amounts		
RBS	2011.12.19	2012.01.27	1,146.00	KRW	40,000	(*1)
CS	2011.11.02	2012.02.23	1,140.10	KRW	160,000	(*2)
Barclays	2011.10.04	2012.10.02	1,156.50	KRW	5,000	(*3)
Credit Agricole	2011.10.06	2012.10.04	1,155.00	KRW	5,000	(*3)

- (\*1) American knock out forward (upper barrier exchange rate = 1,200)

American Knock out Forward is a type of barrier option and an exotic derivative typically an option on the underlying asset whose price breaching the pre-set barrier level either springs the option into existence or extinguishes an already existing option.

- (\*2) FX option (USD Call / KRW Put)

A foreign-exchange option, a derivative financial instrument that gives the owner the right but not the obligation to exchange money denominated in one currency into another currency at a pre-agreed exchange rate on a specified date. The Company has the option to take short positions.

- (\*3) Target redemption forward

FX target redemption forward is an option that consists of a series of forward contracts. Each forward settlement depends on the exchange rate of two currencies. Also, if the accumulated settlement reaches a pre-defined cap (target), the contract is terminated immediately.

(c) Heat Rate Options

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Counterparty	Contract Date	Maturity Date	Position	Contract	Heat rate	Contract condition
				size (MW/HR)	(MMBtu/MWh)	Additional cost
Sempra Energy Trading Corp.					9.2 (First four hours : 9.3)	Natural Gas : \$0.25/MMBtu
	2008.01.01	2012.12.31	BUY	90		Electricity : \$3.00/MWh
Sempra Energy Trading Corp.	2012.06.01	2012.10.30	SELL	45	9.7	Natural Gas : \$0.25/MMBtu

The Company entered into Physically Settled Heat Rate Options contracts with Sempra Energy Trading Corporation to supply electric power by fixed heat rate. In addition, the Company entered into an additional Financially Settled Heat Rate Options contract to offset the financial risk caused by plant downtime when demand for electricity is unstable in summer.

F-58

**Table of Contents**

- (8) The gain and loss on valuation and transaction of derivatives for years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	Net income effects of valuation gain(loss)		Net income effects of valuation gain(loss)		Accumulated other comprehensive income	
	2011	2010	2011	2010	2011	2010
Currency forward	(Won) 3,910	(Won) 1,667	(Won) (3,329)	(Won) 20,162	(Won)	(Won)
Currency swap	148,299	(197,672)	(47,799)	1,225	7,358	(59,055)
Interest swap	(23,426)	(13,011)	1,209	(9,914)	(35,494)	772
Other derivatives	(3,767)	1,209	210			
	(Won) 125,016	(Won) (207,807)	(Won) (49,709)	(Won) 11,473	(Won) (28,136)	(Won) (58,283)

Income(loss) on valuation of derivatives using cash flow hedge accounting is reflected within accumulated other comprehensive income amounting to (Won)7,344 million, net of tax as of December 31, 2011.

13. **OTHER FINANCIAL ASSETS:**

Other financial assets as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	Dec. 31, 2011		Dec. 31, 2010		Jan. 1, 2010	
	Current	Non-Current	Current	Non-Current	Current	Non-Current
Loans and receivables	(Won) 216,635	(Won) 651,037	(Won) 47,457	(Won) 817,877	(Won) 70,412	(Won) 590,296
Present value discount	(995)	(73,651)	(749)	(75,180)	(556)	(74,965)
Long-term/short-term financial instruments	531,388	334	571,310	8,017	366,137	474
	(Won) 747,028	(Won) 577,719	(Won) 618,019	(Won) 750,714	(Won) 435,992	(Won) 515,805

14. **INVENTORIES:**

Inventories as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	Acquisition cost	Dec. 31, 2011 Write-down of Inventory	Book value
	Raw materials	(Won) 2,590,921	(Won) (65)
Merchandises	407		407
Work-in-progress	55,880		55,880
Finished goods	43,859	(4,256)	39,603
Supplies	491,979	(5,807)	486,172
Inventories in transit	675,262		675,262
Other inventories	3,571		3,571
	(Won) 3,861,879	(Won) (10,128)	(Won) 3,851,751





**Table of Contents**

	Acquisition cost	Dec. 31, 2010 Write-down of inventory	Book value
Raw materials	(Won) 2,350,570	(Won) (76)	(Won) 2,350,494
Merchandises	1,783		1,783
Work-in-progress	53,879		53,879
Finished goods	50,014		50,014
Supplies	597,167	(3,523)	593,644
Inventories in transit	428,684		428,684
Other inventories	4,917		4,917
	(Won) 3,487,014	(Won) (3,599)	(Won) 3,483,415

	Acquisition cost	Jan. 1, 2010 Write-down of inventory	Book value
Raw materials	(Won) 2,138,386	(Won) (76)	(Won) 2,138,310
Merchandises	2,581		2,581
Work-in-progress	44,935		44,935
Finished goods	11,576		11,576
Supplies	625,766	(182)	625,584
Inventories in transit	632,320		632,320
Other inventories	6,123		6,123
	(Won) 3,461,687	(Won) (258)	(Won) 3,461,429

Cost of inventory recognized as an expenses for the years ended December 31, 2011 and 2010 were (Won)11,686,476 million and (Won)10,051,426 million, respectively.

The total write - downs of inventories for the years ended December 31, 2011 and 2010 are(Won)6,741 million and (Won)5,487 million, respectively.

15. **FINANCE LEASE RECEIVABLES:**

(1) Finance lease contract:

The Company provides Qatrana gas combined power plant to Jordan Electric Power Company under power purchase agreements ( PPA ), for 25 years which is accounted for as a finance lease.

(2) Finance leases receivables as of December 31, 2011 are as follows (KRW in millions):

	2011	Present value of minimum lease payment
	<b>Minimum lease payment</b>	
Less than 1 year	(Won) 28,606	(Won) 9,279

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

1 ~ 5 years	108,486	31,324
More than 5 years	278,040	334,938
	(Won) 415,132	(Won) 375,541

(3) There is no impaired finance lease receivables as of December 31, 2011.

F-60

**Table of Contents**16. NON-FINANCIAL ASSETS:

Non-financial assets as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	Dec. 31, 2011		Dec. 31, 2010		Jan. 1, 2010	
	Current	Non-Current	Current	Non-Current	Current	Non-Current
Advanced payment	(Won) 103,424	(Won) 30,239	(Won) 23,788	(Won) 26,418	(Won) 44,748	(Won) 50,815
Prepaid expense	229,593	82,523	164,114	68,342	39,209	63,989
Others	114,376	137,049	56,228	182,413	75,491	180,996
	(Won) 447,393	(Won) 249,811	(Won) 244,130	(Won) 277,173	(Won) 159,448	(Won) 295,800

17. CONSOLIDATED SUBSIDIARIES

(1) The Company's consolidated subsidiaries as of December 31, 2011, December 31, 2010, and January 1, 2010 are as follows (KRW in millions):

Consolidated subsidiaries(*1)	Key Operation Activities	Location	Ownership(%)		
			Dec. 31, 2011	Dec. 31, 2010	Jan. 1, 2010
Korea Hydro & Nuclear Power Co., Ltd.	Power generation	KOREA	100.00%	100.00%	100.00%
Korea South-East Power Co., Ltd.	Power generation	KOREA	100.00%	100.00%	100.00%
Korea Midland Power Co., Ltd.	Power generation	KOREA	100.00%	100.00%	100.00%
Korea Western Power Co., Ltd.	Power generation	KOREA	100.00%	100.00%	100.00%
Korea Southern Power Co., Ltd.	Power generation	KOREA	100.00%	100.00%	100.00%
Korea East-West Power Co., Ltd.	Power generation	KOREA	100.00%	100.00%	100.00%
KEPCO Engineering & Construction Company, Inc.	Architectural engineering for utility plant	KOREA	77.94%	77.94%	77.94%
Korea Plant Service & Engineering Co., Ltd.	Utility plant maintenance	KOREA	75.00%	75.00%	80.00%
Korea Nuclear Fuel Co., Ltd.	Nuclear fuel	KOREA	96.36%	96.36%	96.36%
Korea Electric Power Data Network Co., Ltd.	Information services	KOREA	100.00%	100.00%	100.00%
Garorim Tidal Power Plant Co.,Ltd. (*2)	Power generation	KOREA	49.00%	49.00%	49.00%
Korea Power Engineering & Power Services Co., Ltd.	Operation and maintenance of utility plant	KOREA	54.00%	0.00%	0.00%
Dongducheon Dream Power Co., Ltd. (*2)	Power generation	KOREA	49.00%	0.00%	0.00%
KEPCO International HongKong Ltd.	Holding Company	HONG KONG	100.00%	100.00%	100.00%
KEPCO International Philippines Inc.	Holding Company	PHILIPPINES	100.00%	100.00%	100.00%

**Table of Contents**

Consolidated subsidiaries(*1)	Key Operation Activities	Location	Ownership(%)		
			Dec. 31, 2011	Dec. 31, 2010	Jan. 1, 2010
KEPCO Gansu International Ltd.	Holding Company	HONG KONG	100.00%	100.00%	100.00%
KEPCO Philippines Holdings Inc.	Holding Company	PHILIPPINES	100.00%	100.00%	100.00%
KEPCO Philippines Corporation	Utility plant rehabilitation and operation	PHILIPPINES	100.00%	100.00%	100.00%
KEPCO Iliyan Corporation	Construction and operation of utility plant	PHILIPPINES	51.00%	51.00%	51.00%
KEPCO Lebanon SARL	Operation of utility plant	LEBANON	100.00%	100.00%	100.00%
KEPCO Neimenggu International Ltd.	Holding Company	HONG KONG	100.00%	100.00%	100.00%
KEPCO Shanxi International Ltd.	Holding Company	HONG KONG	100.00%	100.00%	100.00%
KOMIPO Global Pte Ltd.	Construction and operation of utility plant	SINGAPOLE	100.00%	100.00%	100.00%
KEPCO Canada Energy Ltd.	Holding Company	CANADA	100.00%	100.00%	100.00%
KEPCO Netherlands B.V.	Holding Company	NETHERLANDS	100.00%	100.00%	100.00%
KOREA Imouraren Uranium Investment Ltd.	Uranium mine development	FRANCE	100.00%	100.00%	100.00%
KEPCO Australia Pty., Ltd.	Resources development	AUSTRALIA	100.00%	100.00%	100.00%
KOSEP Australia Pty., Ltd.	Resources development	AUSTRALIA	100.00%	100.00%	100.00%
KOMIPO Australia Pty., Ltd.	Resources development	AUSTRALIA	100.00%	100.00%	100.00%
KOWEPO Australia Pty., Ltd.	Resources development	AUSTRALIA	100.00%	100.00%	100.00%
KOSPO Australia Pty., Ltd.	Resources development	AUSTRALIA	100.00%	100.00%	100.00%
KEPCO Middle East Holding Company	Holding Company	BAHRAIN	100.00%	100.00%	100.00%
Qatrana Electric Power Company	Construction and operation of utility plant	JORDAN	80.00%	80.00%	80.00%
KHNP Canada Energy Inc.	Resources development	CANADA	100.00%	100.00%	0.00%
KEPCO Bylong Australia Pty., Ltd.	Resources development	AUSTRALIA	100.00%	100.00%	0.00%
Korea Waterbury Uranium Limited Partnership	Resources development	CANADA	79.64%	79.64%	79.64%
KEPCO Canada Uranium Investment Limited Partnership	Resources development	CANADA	100.00%	100.00%	100.00%

**Table of Contents**

Consolidated subsidiaries(*1)	Key Operation Activities	Location	Ownership(%)		
			Dec. 31, 2011	Dec. 31, 2010	Jan. 1, 2010
Sylardus Holding B.V.	Holding Company	NETHERLANDS	100.00%	100.00%	100.00%
Akkuyu Finance B.V.	Construction and operation of utility plant	NETHERLANDS	100.00%	100.00%	100.00%
Akkuyu Fuel B.V.	Construction and operation of utility plant	NETHERLANDS	100.00%	100.00%	100.00%
Akkuyu Operations B.V.	Construction and operation of utility plant	NETHERLANDS	100.00%	100.00%	100.00%
Korea Electric Power Nigeria Ltd.	Operation of utility plant	NIGERIA	100.00%	100.00%	100.00%
KEPCO Holdings de Mexico	Holding Company	MEXICO	100.00%	100.00%	0.00%
KST Electric Power Company	Construction and operation of utility plant	MEXICO	56.00%	56.00%	0.00%
KEPCO Energy Service Company	Operation of utility plant	MEXICO	100.00%	100.00%	0.00%
KEPCO Netherlands S3 B.V.	Holding Company	NETHERLANDS	100.00%	100.00%	0.00%
PT. KOMIPO Pembangkitan Jawa Bali	Operation of utility plant	INDONESIA	51.00%	51.00%	0.00%
PT. Cirebon Power Service(*2)	Operation of utility plant	INDONESIA	27.50%	27.50%	0.00%
KOWEPO International Corporation	Operation of utility plant	PHILIPPINES	99.99%	99.99%	99.99%
KOSPO Jordan LLC	Operation of utility plant	JORDAN	100.00%	100.00%	100.00%
EWP Cebu Corporation	Operation of utility plant	PHILIPPINES	100.00%	100.00%	100.00%
EWP Philippine Holdings Corporation	Holding Company	PHILIPPINES	100.00%	100.00%	0.00%
EWP America Inc.	Holding Company	USA	100.00%	100.00%	0.00%
EWP Renewable Co.	Holding Company	USA	100.00%	100.00%	0.00%
DG Fairhaven Power, LLC	Power generation	USA	100.00%	100.00%	0.00%
DG Kings Plaza Holdings, LLC	Power generation	USA	100.00%	100.00%	0.00%
DG Kings Plaza, LLC	Power generation	USA	100.00%	100.00%	0.00%
DG Kings Plaza II, LLC	Power generation	USA	100.00%	100.00%	0.00%
DG Whitefield, LLC	Power generation	USA	100.00%	100.00%	0.00%
Springfield Power, LLC	Power generation	USA	100.00%	100.00%	0.00%
KNF Canada Energy Limited	Resources development	CANADA	96.36%	96.36%	0.00%
PT KEPCO Resource Indonesia	Resources development	INDONESIA	100.00%	0.00%	0.00%
EWP Barbados 1 SRL	Holding Company	BARBADOS	100.00%	0.00%	0.00%
California Power Holdings, LLC	Power generation	USA	100.00%	0.00%	0.00%

**Table of Contents**

Consolidated subsidiaries(*1)	Key Operation Activities	Location	Ownership(%)		
			Dec. 31, 2011	Dec. 31, 2010	Jan. 1, 2010
Gyeonggi Fuel Cell Power Plant Co., Ltd.(*2)	Power generation	KOREA	49.00%	0.00%	0.00%
PT. Tanggamus Electric Power	Power generation	INDONESIA	60.00%	0.00%	0.00%

(\*1) As of December 31, 2011, the reporting period end date of all consolidated subsidiaries is December 31.

(\*2) The Company owns less than 50% of the shares of the respective entities, however the Company has obtained the majority of the voting power through the shareholders agreement.

(2) The consolidated subsidiaries that are newly included and excluded from the consolidation for the year ended December 31, 2011 are as follows.

<Newly included in consolidated subsidiaries for 2011>

	Causes
Korea Power Engineering & Power Services Co., Ltd.	New investment
Dongducheon Dream Power Co., Ltd.	New investment
PT KEPCO Resource Indonesia	New investment
EWP Barbados 1 SRL	New investment
California Power Holdings, LLC	New investment
Gyeonggi Fuel Cell Power Plant Co., Ltd.	New investment
PT. Tanggamus Electric Power	New investment

<Excluded from consolidated subsidiaries for 2011>

	Causes
Akkuyu Electricity Production Company	Liquidation of subsidiary
KEPCO Asia International Ltd.	Liquidation of subsidiary
DG Fairhaven Power Holdings, LLC	Liquidation of subsidiary

18. INVESTMENTS IN ASSOCIATES AND JOINT VENTURES :

(1) Investments in associates and joint ventures as of December 31, 2011, December 31, 2010, and January 1, 2010 are as follows (KRW in millions):

Investee	Key Operating activities	Location	Owner-ship(%)	Dec. 31, 2011	
				Acquisition cost	Book value
<b>ASSOCIATES</b>					
Daegu Green Power Co., Ltd.	Power generation	KOREA	41%	(Won) 12,300	(Won) 12,621
Korea Gas Corporation	Importing and wholesaling LNG	KOREA	24%	94,500	1,968,886
Korea Electric Power Industrial Development Co., Ltd.	Electricity metering	KOREA	29%	4,727	20,968
YTN Co. Ltd.	Broadcasting	KOREA	21%	59,000	36,977

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Cheongna Energy Co., Ltd.	Generating and distributing vapor and hot/cold water	KOREA	30%	30,000	24,576
Gangwon Wind Power Co., Ltd.(*1)	Wind power generation	KOREA	15%	5,725	10,112
Hyundai Green Power Co., Ltd.	Power generation	KOREA	29%	64,235	84,109

F-64

**Table of Contents**

Dec. 31, 2011					
Investee	Key Operating activities	Location	Owner-ship(%)	Acquisition cost	Book value
Korea Power Exchange(*5)	Management of power market	KOREA	100%	127,839	163,041
AMEC Partners Korea(*2)	Resources development	KOREA	19%	707	176
Hyundai Energy Co., Ltd.	Power generation	KOREA	29%	33,147	53,281
Ecollite Co., Ltd.	Artificial light- weight aggregate	KOREA	34%	168	1,219
Taebaek Wind Power Co., Ltd.	Construction and service	KOREA	25%	3,810	3,680
Alternergy Philippine Investments Corporation	Power generation	PHILIPPINES	50%	2,261	1,078
Muju Wind Power Co., Ltd.	Power generation	KOREA	25%	2,850	2,735
Pyeongchang Wind Power Co., Ltd.	Power generation	KOREA	25%	638	627
Daeryun Power co., Ltd.	Power generation and support	KOREA	20%	20,790	20,227
JinanJangsu Wind Power CO., Ltd.	Power generation	KOREA	25%	100	78
Changjuk Wind Power Co., Ltd.	Power generation	KOREA	30%	3,801	3,749
Commerce and industry energy Co., Ltd	Power generation	KOREA	30%	8,500	8,497
Gyeongju Wind Power Co., Ltd.	Power generation	KOREA	30%	1,440	1,430
KNH Solar Co., Ltd.	Power generation	KOREA	27%	1,296	1,295
SPC Power Corporation	Power generation	PHILIPPINES	40%	20,635	37,660
Gemeng International Energy Group Co., Ltd.	Power generation	CHINA	34%	413,153	555,104
PT. Cirebon Electric Power	Power generation	INDONESIA	28%	39,217	15,513
KNOC Nigerian East Oil Co., Ltd.(*3)	Resources development	NIGERIA	15%	12	
KNOC Nigerian West Oil Co., Ltd.(*3)	Resources development	NIGERIA	15%	12	
Dolphin Property Limited(*3)	Rental company	NIGERIA	15%	12	
E-Power S.A	Operation of utility plant and sales of electricity	HAITI	30%	3,779	3,967
PT Wampu Electric Power	Power generation	INDONESIA	46%	17,360	16,452
PT. Bayan Resources TBK	Resources development	INDONESIA	20%	615,860	671,096
				1,587,874	3,718,154
<b>JOINT VENTURES(*7)</b>					
KEPCO-Uhde Inc. (*6)	Power generation	KOREA	66%	11,355	11,172
Eco Biomass Energy Sdn. Bhd.	Power generation	MALAYSIA	40%	9,661	9,783
Datang Chaoyang Renewable Power Co., Ltd.	Power generation	CHINA	40%	27,660	29,971
Shuweiht Asia Power Investment B.V.	Holding company	NETHER-LANDS	49%	285	
Shuweiht Asia Operation & Maintenance Company (*6)	Maintenance of utility plant	CAYMAN	55%	30	
Waterbury Lake Uranium LP	Resources development	CANADA	40%	21,786	21,691
ASM-BG Investicii AD	Power generation	BULGARIA	50%	14,731	14,921
RES Technology AD	Power generation	BULGARIA	50%	14,698	14,563
KV Holdings, Inc.	Power generation	PHILIPPINES	40%	2,103	2,044



**Table of Contents**

Dec. 31, 2011					
Investee	Key Operating activities	Location	Owner-ship(%)	Acquisition cost	Book value
Kings Plaza JV, LLC(*6)	Power generation	USA	75%	8,820	8,651
KEPCO SPC Power Corporation(*6)		PHILIPPINES	76%	94,579	98,943
	Construction and operation of utility plant				
Canada Korea Uranium Limited Partnership(*4)	Resources development	CANADA	13%	5,404	5,348
KEPCO Energy Resource Nigeria Limited	Holding company	NIGERIA	30%	8,463	6,056
Gansu Datang Yumen Wind Power Company Ltd.	Power generation	CHINA	40%	16,621	22,368
Datang Chifeng Renewable Power Co., Ltd.	Power generation	CHINA	40%	121,928	183,455
Datang KEPCO Chaoyang Renewable Power	Power generation	CHINA	40%	10,858	6,931
Rabigh Electricity Company	Construction of utility plant and sales of electricity	SAUDI ARABIA	40%	1,357	
Rabigh Operation & Maintenance Company	Maintenance of utility plant	SAUDI ARABIA	40%	70	137
Jamaica Public Service Company Limited	Power generation	JAMAICA	40%	301,910	311,750
KW Nuclear Components Co., Ltd.	R&D	KOREA	43%	833	
Busan shinho Solar power Co., Ltd.	Power generation	KOREA	20%	2	2
STX Electric Power Co., Ltd.	Power generation	KOREA	49%	19,601	19,416
				692,755	767,202
				(Won) 2,280,629	(Won) 4,485,356

(\*1) The Company holds less than 20% of the equity shares of this investment. However, the Company can exercise significant influence by virtue of its contractual right to appoint directors to the board of directors of the entity, and by strict decision criteria of the company's financial and operating policy of the board of directors.

(\*2) The Company holds less than 20% of the equity shares of this investment. However, the Company can exercise significant influence by virtue of its contractual right to appoint a director to the board of directors of the entity.

(\*3) The Company holds less than 20% of the equity shares of these investments in associates. However, the Company can exercise significant influence by virtue of its contractual right to appoint one out of four members of the steering committee of the entity. Moreover, the company has significant financial transactions with the associate which can affect its influence on the entity.

(\*4) The Company holds less than 20% of the equity shares of the entity. However, the Company has joint control on the associates by virtue of its contractual right to appoint directors to the board of directors of the entity, and by strict decision criteria of the company's financial and operating policy of the board of directors.

**Table of Contents**

- (\*5) The Company holds 100% of the equity shares of the investments in associate. However, the Government regulates the Company's ability to make operating and financial decisions over the entity, as the Government's requires maintaining arms-length transactions between KPX and the Company's other subsidiaries. The company can exercise significant influence by its right to nominate directors to the board of directors of the entity.
- (\*6) The Company holds more than 50% of the equity shares of the entities. However, according to the shareholder agreement, all critical financial and operating decisions must be agreed to by all ownership parties. For these reasons, the entities are classified as joint ventures.
- (\*7) Despite of the ownership percentage, when the strategic financial and operating policy decisions relating to the activities of the investee require the unanimous consent of the parties sharing control, the Company classified those investments as investments in joint ventures in statement of financial position.

Investee	Key Operating Activities	Dec. 31, 2010		Acquisition Cost	Book value
		Location	Ownership(%)		
<b>ASSOCIATES</b>					
Daegu Green Power Co., Ltd.	Power generation	KOREA	41%	(Won) 6,150	(Won) 5,810
Korea Gas Corporation	Importing and wholesaling LNG	KOREA	24%	94,500	1,890,437
Korea Electric Power Industrial Development Co., Ltd.	Electricity metering	KOREA	29%	7,987	17,473
YTN Co. Ltd.	Broadcasting	KOREA	21%	59,000	35,569
Cheongna Energy Co., Ltd.	Generating and distributing vapor and hot/cold water	KOREA	30%	30,000	26,092
Gangwon Wind Power Co., Ltd.(*1)	Wind power generation	KOREA	15%	5,725	8,576
Hyundai Green Power Co., Ltd.	Power generation	KOREA	29%	38,135	43,113
Korea Power Exchange	Management of power market	KOREA	100%	127,839	156,057
The 3rd energy fund	Holding company	KOREA	48%	1,680	2,220
Korea Solar Holding Co., Ltd.	Power generation	KOREA	40%	25	
AMEC Partners Korea(*2)	Resources development	KOREA	19%	498	151
Hyundai Energy Co., Ltd.	Power generation	KOREA	36%	33,147	31,968
Ecollite Co. Ltd.	Artificial light-weight aggregate	KOREA	34%	168	1,450
Taebaek Wind Power Co., Ltd.	Construction and service	KOREA	25%	2,513	2,461
Alternergy Philippine Investments Corporation	Power generation	PHILIPPINES	50%	1,331	788
Muju Wind Power Co., Ltd.	Power generation	KOREA	25%	2,850	2,803
Pyeongchang Wind Power Co., Ltd.	Power generation	KOREA	25%	13	11
Daeryun Power	Power generation and support	KOREA	20%	2,970	2,930
JinanJangsu Wind Power CO., Ltd.	Power generation	KOREA	25%	100	79
Changjuk Wind Power Co., Ltd.	Power generation	KOREA	30%	120	119
Commerce and industry energy Co., Ltd	Power generation	KOREA	30%	8,500	8,497
SPC Power Corporation	Power generation	PHILIPPINES	40%	20,635	33,053

**Table of Contents**

Investee	Dec. 31, 2010		Owner-ship(%)	Acquisition Cost	Book value
	Key Operating Activities	Location			
<b>ASSOCIATES</b>					
Gemeng International Energy Group Co., Ltd.	Power generation	CHINA	34%	413,153	543,147
PT. Cirebon Electric Power	Power generation	INDONESIA	28%	39,217	20,985
KNOC Nigerian East Oil Co., Ltd.(*3)	Resources development	NIGERIA	15%	12	
KNOC Nigerian West Oil Co., Ltd.(*3)	Resources development	NIGERIA	15%	12	
Dolphin Property Limited(*3)	Rental company	NIGERIA	15%	12	
E-Power S.A	Operation of utility plant and sales of electricity	HAITI	30%	3,779	2,814
PT Wampu Electric Power	Power generation	INDONESIA	46%	12,518	12,518
PT. Bayan Resources TBK	Resources development	INDONESIA	20%	615,860	641,389
				1,528,449	3,490,510
<b>JOINT VENTURES(*7)</b>					
Eco Biomass Energy Sdn. Bhd.	Power generation	MALAYSIA	40%	9,661	9,661
Datang Chaoyang Renewable Power Co., Ltd.	Power generation	CHINA	40%	17,619	15,138
Shuweiht Asia Power Investment B.V.	Holding company	NETHERLANDS	49%	13	13
Kings Plaza JV, LLC	Power generation	USA	75%	8,820	8,820
KEPCO SPC Power Corporation(*6)	Construction and operation of utility plant	PHILIPPINES	76%	80,986	72,663
Canada Korea Uranium Limited Partnership(*4)	Resources development	CANADA	13%	5,404	5,408
KEPCO Energy Resource Nigeria Limited	Holding company	NIGERIA	30%	8,463	6,867
Gansu Datang Yumen Wind Power Company Ltd.	Power generation	CHINA	40%	16,621	21,555
Datang Chifeng Renewable Power Co., Ltd.	Power generation	CHINA	40%	98,664	134,790
Rabigh Electricity Company	Construction of utility plant and sales of electricity	SAUDI ARABIA	40%	1,357	
Rabigh Operation & Maintenance Company	Maintenance of utility plant	SAUDI ARABIA	40%	70	61
KW Nuclear Components Co., Ltd.	R&D	KOREA	43%	834	345
				248,512	275,321
				(Won) 1,776,961	(Won) 3,765,831

**Table of Contents**

- (\*1) The Company holds less than 20% of the equity shares of this investment. However, the Company can exercise significant influence by virtue of its contractual right to appoint directors to the board of directors of the entity, and by strict decision criteria of the company's financial and operating policy of the board of directors.
- (\*2) The Company holds less than 20% of the equity shares of this investment. However, the Company can exercise significant influence by virtue of its contractual right to appoint a director to the board of directors of the entity.
- (\*3) The Company holds less than 20% of the equity shares of these investments in associates. However, the Company can exercise significant influence by virtue of its contractual right to appoint one out of four members of the steering committee of the entity. Moreover, the company has significant financial transactions with the associate which can affect its influence on the entity.
- (\*4) The Company holds less than 20% of the equity shares of the entity. However, the Company has joint control on the associates by virtue of its contractual right to appoint directors to the board of directors of the entity, and by strict decision criteria of the company's financial and operating policy of the board of directors.
- (\*5) The Company holds 100% of the equity shares of the investments in associate. However, the Government regulates the Company's ability to make operating and financial decisions over the entity, as the Government's measurement to keep arms-length transactions between KPX and the Company's other subsidiaries. The company can exercise significant influence by its right to nominate directors to the board of directors of the entity.
- (\*6) The Company holds more than 50% of the equity shares of the entities. However, according to the shareholder agreement, all critical financial and operating decisions must be agreed to by all ownership parties. For these reasons, the entities are classified as joint ventures.
- (\*7) Despite of the ownership percentage, when the strategic financial and operating policy decisions relating to the activities of the investee require the unanimous consent of the parties sharing control, the Company classified those investments as investments in joint ventures in statement of financial position.

Investee	Key Operating Activities	Jan. 1, 2010		Acquisition Cost	Book value
		Location	Ownership(%)		
<b>ASSOCIATES</b>					
Korea Gas Corporation	Importing and wholesaling LNG	KOREA	24%	(Won) 94,500	(Won) 1,836,888
Korea District Heating Corporation	District heating	KOREA	26%	5,660	226,597
LG Uplus Corp.	Telecommunication	KOREA	39%	323,470	326,125
Korea Electric Power Industrial Development Co., Ltd.	Electricity metering	KOREA	49%	7,987	26,553
YTN Co. Ltd.	Broadcasting	KOREA	21%	59,000	35,077
Cheongna Energy Co., Ltd.	Generating and distributing vapor and hot/cold water	KOREA	30%	18,200	16,945
Gangwon Wind Power Co., Ltd.(*1)	Wind power generation	KOREA	15%	5,725	7,410
Hyundai Green Power Co., Ltd.	Power generation	KOREA	29%	38,135	36,253
Korea Power Exchange	Management of power market	KOREA	100%	127,839	146,530
The 3rd energy fund	Holding company	KOREA	48%	1,680	1,310

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Korea Solar Holding Co., Ltd.	Power generation	KOREA	40%	25	25
-------------------------------	------------------	-------	-----	----	----

F-69

**Table of Contents**

Jan. 1, 2010					
Investee	Key Operating Activities	Location	Owner-ship(%)	Acquisition Cost	Book value
AMEC Partners Korea(*2)	Resources development	KOREA	19%	247	174
Hyundai Energy Co., Ltd.	Power generation	KOREA	29%	4,988	4,827
Ecollite Co. Ltd.	Artificial light-weight aggregate	KOREA	34%	168	792
Taebaek Wind Power Co., Ltd.	Construction and service	KOREA	25%	2,513	2,488
Alternergy Philippine Investments Corporation	Power generation	PHILIPPINES	50%	1,041	778
SPC Power Corporation	Power generation	PHILIPPINES	40%	20,635	29,802
Gemeng International Energy Group Co.,Ltd.	Power generation	CHINA	34%	413,153	546,300
PT. Cirebon Electric Power	Power generation	INDONESIA	28%	39,217	38,233
KNOC Nigerian East Oil Co.,Ltd.	Resources development	NIGERIA	15%	12	
KNOC Nigerian West Oil Co.,Ltd.	Resources development	NIGERIA	15%	12	
Dolphin Property Limited	Rental company	NIGERIA	15%	12	
E-Power S.A	Operation of utility plant and sales of electricity	HAITI	30%	1,108	1,108
				1,165,327	3,284,215
<b>JOINT VENTURES(*7)</b>					
Eco Biomass Energy Sdn. Bhd.	Power generation	MALAYSIA	40%	5,641	5,641
Datang Chaoyang Renewable Power Co.,Ltd.	Power generation	CHINA	40%	6,811	2,386
KEPCO SPC Power Corporation	Construction and operation of utility plant	PHILIPPINES	76%	75,215	52,347
Canada Korea Uranium Limited Partnership	Resources development	CANADA	13%	3	3
KEPCO Energy Resource Nigeria Limited	Holding company	NIGERIA	30%	8,463	7,267
Gansu Datang Yumen Wind Power Company Ltd.	Power generation	CHINA	40%	16,500	18,202
Datang Chifeng Renewable Power Co.,Ltd.	Power generation	CHINA	40%	73,152	108,966
Rabigh Electricity Company	Construction of utility plant and sales of electricity	SAUDI ARABIA	40%	1,357	
Rabigh Operation & Maintenance Company	Maintenance of utility plant	SAUDI ARABIA	40%	70	62
KW Nuclear Components Co., Ltd.	R&D	KOREA	43%	834	721
				188,046	195,595
				(Won) 1,353,373	(Won) 3,479,810

**Table of Contents**

- (\*1) The Company holds less than 20% of the equity shares of this investment. However, the Company can exercise significant influence by virtue of its contractual right to appoint directors to the board of directors of the entity, and by strict decision criteria of the company's financial and operating policy of the board of directors.
- (\*2) The Company holds less than 20% of the equity shares of this investment. However, the Company can exercise significant influence by virtue of its contractual right to appoint a director to the board of directors of the entity.
- (\*3) The Company holds less than 20% of the equity shares of these investments in associates. However, the Company can exercise significant influence by virtue of its contractual right to appoint one out of four members of the steering committee of the entity. Moreover, the company has significant financial transactions with the associate which can affect its influence on the entity.
- (\*4) The Company holds less than 20% of the equity shares of the entity. However, the Company has joint control on the associates by virtue of its contractual right to appoint directors to the board of directors of the entity, and by strict decision criteria of the company's financial and operating policy of the board of directors.
- (\*5) The Company holds 100% of the equity shares of the investments in associate. However, the Government regulates the Company's ability to make operating and financial decisions over the entity, as the Government's measurement to keep arms-length transactions between KPX and the Company's other subsidiaries. The company can exercise significant influence by its right to nominate directors to the board of directors of the entity.
- (\*6) The Company holds more than 50% of the equity shares of the entities. However, according to the shareholder agreement, all critical financial and operating decisions must be agreed to by all ownership parties. For these reasons, the entities are classified as joint ventures.
- (\*7) Despite of the ownership percentage, when the strategic financial and operating policy decisions relating to the activities of the investee require the unanimous consent of the parties sharing control, the Company classified those investments as investments in joint ventures in statement of financial position.
- (2) The fair value of associates and joint ventures which are actively traded on the open market and have a readily available market value as of December 31, 2011, December 31, 2010, and January 1, 2010 are as follows (KRW in millions):

Associates	Dec. 31, 2011	Dec. 31, 2010	Jan. 1, 2010
Korea Electric Power Industrial Development Co., Ltd.	(Won) 63,815	(Won) 124,320	(Won)
Korea Gas Corporation	788,130	916,650	918,540
YTN Co. Ltd.	24,840	33,120	41,310
PT. Bayan Resources TBK	1,533,601	1,492,801	
LG Uplus Corp.			326,096

**Table of Contents**

- (3) Changes in investment in associates and joint ventures for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

Investee	2011												
	Jan. 1, 2011	Acquisition	Disposal	Dividend received	Share in Income (loss)	Changes in equity	Others	Dec. 31, 2011					
<b>ASSOCIATES</b>													
Daegu Green Power Co., Ltd.	(Won) 5,810	(Won) 6,150	(Won)	(Won)	(Won) (314)	(Won) (30)	(Won) 5	(Won) 11,621					
Korea Gas Corporation	1,890,437			(11,718)	44,391	48,331	(2,555)	1,968,886					
Korea Electric Power Industrial Development Co., Ltd.	17,473			(1,475)	7,917	10	(2,957)	20,968					
YTN	35,569			(135)	2,182	35	(674)	36,977					
Cheongna Energy Co., Ltd.	26,092				(1,516)			24,576					
Gangwon Wind Power Co., Ltd.	8,576			(852)	2,624	(236)		10,112					
Hyundai Green Power Co., Ltd.	43,113	26,100		(5,541)	20,207	56	174	84,109					
Korea Power Exchange	156,057				6,984			163,041					
The 3rd energy fund	2,220		(1,680)	(536)	(4)								
AMEC Partners Korea	151	209			(181)	(3)		176					
Hyundai Energy Co., Ltd.	31,968				(2,970)		24,283	53,281					
Ecolite Co. Ltd.	1,450				(231)			1,219					
Taebaek Wind Power Co., Ltd.	2,461	1,298			(79)			3,680					
Alternergy Philippine Investments Corporation	788	929			(651)	12		1,078					
Muju Wind Power Co., Ltd.	2,803	-	-	-	(68)	-	-	2,735					
Pyeongchang Wind Power Co., Ltd.	11	625			(9)			627					
Daeryun Power	2,930	17,820			(424)	(78)	(21)	20,227					
JinanJangsu Wind Power CO., Ltd.	79				(1)			78					
Changjuk Wind Power Co., Ltd.	119	3,681			(51)			3,749					
Commerce and industry energy Co., Ltd	8,497							8,497					
Gyeongju Wind Power Co., Ltd.		1,440			(10)			1,430					
KNH Solar Co., Ltd.		1,296			(1)			1,295					
SPC Power Corporation	33,053		(1,022)		6,001	605	(977)	37,660					
Gemeng International Energy Group Co., Ltd.	543,147				(18,490)	30,447		555,104					
PT. Cirebon Electric Power	20,985				(516)	(4,997)	41	15,513					
KNOC Nigerian East Oil Co., Ltd.(*1)					(2,071)	233	1,838						
KNOC Nigerian West Oil Co., Ltd.(*1)					(1,827)	213	1,614						
Dolphin Property Limited(*1)					(245)	30	215						
E-Power S.A	2,814				1,077	76		3,967					
PT Wampu Electric Power	12,518	4,842			(1,214)		306	16,452					
PT. Bayan Resources TBK	641,389			(6,637)	29,161	7,348	(165)	671,096					
	3,490,510	64,390	(2,702)	(26,894)	89,671	82,052	21,127	3,718,154					
<b>JOINT VENTURES</b>													
KEPCO-Uhde Inc.		11,355			(183)			11,172					
Eco Biomass Energy Sdn. Bhd.	9,661						122	9,783					
Datang Chaoyang Renewable Power Co., Ltd.	15,138	10,041			2,199	2,561	32	29,971					



Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Shuwei hat Asia Power Investment B.V.	13	271		(180)	(104)		
Shuwei hat Asia Operation & Maintenance Company		30		(30)			
Waterbury Lake Uranium LP		4,446	(4,335)		(75)	21,655	21,691
ASM-BG Investicii AD		14,731		775	(585)		14,921
RES Technology AD		14,698		484	(619)		14,563
KV Holdings, Inc.		2,103		(4)	(55)		2,044
Kings Plaza JV, LLC	8,820			(694)	547	(22)	8,651
KEPCO SPC Power Corporation	72,663	13,593		10,691	2,050	(54)	98,943

F-72

**Table of Contents**

Investee	2011							Dec. 31, 2011
	Jan. 1, 2011	Acquisition	Disposal	Dividend received	Share in Income (loss)	Changes in equity	Others	
Canada Korea Uranium Limited Partnership	5,408				(19)		(41)	5,348
KEPCO Energy Resource Nigeria Limited	6,867				(461)	(350)		6,056
Gansu Datang Yumen Wind Power Company Ltd.	21,555			(305)	(134)	1,288	(36)	22,368
Datang Chifeng Renewable Power Co., Ltd.	134,790	23,265		(13,926)	22,645	16,366	315	183,455
Datang KEPCO Chaoyang Renewable Power Co., Ltd.		10,858				121	(4,048)	6,931
Rabigh Electricity Company(*1)					(9,616)	(35,836)	45,452	
Rabigh Operation & Maintenance Company	61				72	4		137
Jamaica Public Service Company Limited		301,910		(20,350)	4,470	(3,174)	28,894	311,750
KW Nuclear Components Co., Ltd.	345				(345)			
Busan shinho Solar power Co., Ltd.		2						2
STX Electric Power Co., Ltd.		19,600			(184)			19,416
	275,321	426,903	(4,335)	(35,275)	30,727	(18,408)	92,269	767,202
	(Won) 3,765,831	(Won) 491,293	(Won) (7,037)	(Won) (62,169)	(Won) 120,398	(Won) 63,644	(Won) 113,396	(Won) 4,485,356

(\*1) Due to the accumulated deficit, the Company's investment balance in KNOC Nigerian East Oil Co., Ltd., KNOC Nigerian West Oil Co., Ltd., Dolphin Property Limited. and Rabigh Electricity Company, are zero. However, the Company's investments in these entities were through a loan to the entities in addition to a direct investment in their equity. As a result, the Company continues to recognize its share in loss and the changes in equity of these entities in the statement of comprehensive income by recording a provision allowance against the Company's loans from overseas business (due from the respective entities).

Investee	2010							Dec. 31, 2010
	Jan. 1, 2010	Acquisition	Disposal	Dividend received	Share in income(loss)	Changes in equity	Others	
<b>ASSOCIATES</b>								
Daegu Green Power Co., Ltd.	(Won)	(Won) 6,150	(Won)	(Won)	(Won) (307)	(Won) (33)	(Won)	(Won) 5,810
Korea Gas Corporation	1,836,888			(14,553)	67,713	2,147	(1,758)	1,890,437

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Korea District Heating Corporation(*1)	226,597			1,804	(228,401)	
LG Uplus Corp.(*2)	326,125				(326,125)	
Korea Electric Power Industrial Development Co., Ltd.	26,553	(12,894)	(5,586)	9,410	(10)	17,473
YTN	35,077		(270)	768	(6)	35,569
Cheongna Energy Co., Ltd.	16,945	11,800		(2,535)	(118)	26,092
Gangwon Wind Power Co., Ltd.	7,410		(284)	1,596	(146)	8,576
Hyundai Green Power Co., Ltd.	36,253			6,860		43,113
Korea Power Exchange	146,530			9,527		156,057
The 3rd energy fund	1,310			910		2,220
Korea Solar Holding Co., Ltd.	25			(25)		
AMEC Partners Korea	174	251		(274)		151
Hyundai Energy Co., Ltd.	4,827	28,159		(1,030)	12	31,968
Ecollite Co. Ltd.	792			(172)	830	1,450
Taebaek Wind Power Co., Ltd.	2,488			(27)		2,461
Alternergy Philippine Investments Corporation	778	291		(297)	16	788
Muju Wind Power Co., Ltd		2,850		(47)		2,803

F-73

**Table of Contents**

Investee	Jan. 1, 2010	Acquisition	Disposal	2010				Dec. 31, 2010
				Dividend received	Share in income(loss)	Changes in equity	Others	
Pyeongchang Wind Power Co., Ltd.		13			(2)			11
Daeryun Power		2,970			(113)		73	2,930
JinanJangsu Wind Power CO., Ltd.		100			(21)			79
Changjuk Wind Power Co., Ltd.		120			(1)			119
Commerce and industry energy Co., Ltd		8,500			(3)			8,497
SPC Power Corporation	29,802			(3,775)	6,231	1,037	(242)	33,053
Gemeng International Energy Group Co., Ltd.	546,300				(13,594)	10,441		543,147
PT. Cirebon Electric Power	38,233				(2,586)	(12,333)	(2,329)	20,985
KNOC Nigerian East Oil Co., Ltd.(*3)					(3,586)		3,586	
KNOC Nigerian West Oil Co., Ltd.(*3)					(3,339)		3,339	
Dolphin Property Limited					(357)	34	323	
E-Power S.A(*3)	1,108	2,671			(870)	(95)		2,814
PT Wampu Electric Power		13,492			(1,346)		372	12,518
PT. Bayan Resources TBK		615,860			30,736	(5,207)		641,389
	3,284,215	693,227	(12,894)	(24,468)	103,219	(1,639)	(551,150)	3,490,510
<b>JOINT VENTURES</b>								
Eco Biomass Energy Sdn. Bhd.	5,641	5,366					(1,346)	9,661
Datang Chaoyang Renewable Power Co., Ltd.	2,386	15,237			617	(3,102)		15,138
Shuwei hat Asia Power Investment B.V.		13						13
Kings Plaza JV, LLC							8,820	8,820
KEPCO SPC Power Corporation	52,347	22,392			(4,525)	2,449		72,663
Canada Korea Uranium Limited Partnership	3				4		5,401	5,408
KEPCO Energy Resource Nigeria Limited	7,267				(136)	(264)		6,867
Gansu Datang Yumen Wind Power Company Ltd.	18,202	120			3,090	143		21,555
Datang Chifeng Renewable Power Co., Ltd	108,966	20,088		(11,020)	22,940	1,521	(7,705)	134,790
Rabigh Electricity Company(*3)					(20,765)	(25,498)	46,263	
Rabigh Operation & Maintenance Company	62					(1)		61
KW Nuclear Components Co., Ltd.	721				(376)			345
	195,595	63,216		(11,020)	849	(24,752)	51,433	275,321
	(Won) 3,479,810	(Won) 756,443	(Won) (12,894)	(Won) (35,488)	(Won) 104,068	(Won) (26,391)	(Won) (499,717)	(Won) 3,765,831

(\*1) Since prior to 2010, the Company held interest in Korea District Heading Co., Ltd.(the KDHC ) which completed its public offering on the Korea Exchange on January 29, 2010. However, the Company did not participate in KDHC s paid-in capital increase as part of its IPO, resulting in a decrease in ownership from 26.07% to 19.55%. As the Company no longer has significant influence over KDHC, the Company reclassified the remaining balance in KDHC from an investment in associates to available-for-sale financial assets during the year ended December 31, 2010.

## Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

- (\*2) As LG Uplus Corporation (formerly LG Telecom) merged with LG Powercom on January 5, 2010, shares of LG Powercom which the Company owns was exchanged for shares of LG Uplus Corporation. As a result, the Company's ownership interest decreased from a 39% in LG Powercom to a 7.5% interest in LG Uplus Corporation. As the Company no longer has significant influence in LG Uplus Corporation; the Company reclassified the remaining balance in LG Uplus Corporation from an investment in associates to available-for-sale financial assets during the year ended December 31, 2010.

F-74

**Table of Contents**

- (\*3) Due to the accumulated deficit, the Company's investment balance in KNOC Nigerian East Oil Co., Ltd., KNOC Nigerian West Oil Co., Ltd., Dolphin Property Limited, and Rabigh Electricity Company, are zero. However, as the Company's investments in these entities were through a loan to the entities in addition to a direct investment in their equity. As a result, the Company continues to recognize its share in loss and the changes in equity of these entities in the statement of comprehensive income by recording a provision allowance against the Company's loans from overseas business (due from the respective entities).
- (4) Summary financial information of investments in associates and joint ventures as of and for the years ended December 31, 2011 and December 31, 2010, and as of January 1, 2010 are as follows (KRW in millions):

Investee	Dec. 31, 2011			
	Total assets	Total liabilities	Sales	Net income
<b>ASSOCIATES</b>				
Daegu Green Power Co., Ltd.	(Won) 28,557	(Won) 213	(Won)	(Won) (609)
Korea Gas Corporation	36,016,009	27,966,599	28,493,663	181,484
Korea Electric Power Industrial Development Co., Ltd.	122,578	50,273	266,418	17,861
YTN Co. Ltd.	338,084	165,537	124,798	9,539
Cheongna Energy Co., Ltd.	388,189	306,594	14,643	(5,131)
Gangwon Wind Power Co., Ltd.(*1)	148,265	81,178	29,199	13,276
Hyundai Green Power Co., Ltd.	743,829	453,799	278,804	63,902
Korea Power Exchange	186,240	23,200	80,885	6,983
AMEC Partners Korea	1,230	305	825	(952)
Hyundai Energy Co., Ltd.	201,781	92,109		(828)
Ecollite Co. Ltd.	3,679	40		(690)
Taebaek Wind Power Co., Ltd.	38,452	23,732		(315)
Alternergy Philippine Investments Corporation	2,186	29		(973)
Muju Wind Power Co., Ltd.	10,970	32		(274)
Pyeongchang Wind Power Co., Ltd.	2,922	415		(36)
Daeryun Power	151,684	50,083		(2,144)
JinanJangsu Wind Power CO., Ltd.	313			(2)
Changjuk Wind Power Co., Ltd.	23,521	11,026		(172)
Commerce and industry energy Co., Ltd	88,361	60,197		
Gyeongju Wind Power Co., Ltd.	4,770	4		(34)
KNH Solar Co., Ltd.	4,800	2		(2)
SPC Power Corporation	111,564	12,467	13,020	7,043
Gemeng International Energy Group Co., Ltd.	4,980,501	3,347,843	1,280,069	(100,414)
PT. Cirebon Electric Power	913,213	856,798		(5,386)
KNOC Nigerian East Oil Co., Ltd.	257,837	322,590		(8,496)
KNOC Nigerian West Oil Co., Ltd.	155,815	214,588		(7,883)
Dolphin Property Limited	6,511	10,205	1,067	(471)
E-Power S.A	75,211	65,289	54,633	4,267
PT Wampu Electric Power	38,922	3,156		(2,598)
PT. Bayan Resources TBK	1,610,547	990,782	1,612,046	239,030

**Table of Contents**

Investee	Dec. 31, 2011			
	Total assets	Total liabilities	Sales	Net income
<b>JOINT VENTURES</b>				
KEPCO-Uhde Inc.(*6)	16,964	36		(277)
Eco Biomass Energy Sdn. Bhd.	15,957	2,581		(776)
Datang Chaoyang Renewable Power Co., Ltd.	213,751	138,823	9,203	5,498
Shuweiha Asia Power Investment B.V.	103	129		(297)
Shuweiha Asia Operation & Maintenance Company	208	254		(100)
Waterbury Lake Uranium LP	54,477	250		
ASM-BG Investicii AD	120,829	87,903		817
RES Technology AD	121,543	88,730		41
KV Holdings, Inc.	5,109			(11)
Kings Plaza JV, LLC	25,910	14,807	10,440	778
KEPCO SPC Power Corporation	546,503	383,068	111,705	10,272
Canada Korea Uranium Limited Partnership	42,931	60		(12)
KEPCO Energy Resource Nigeria Limited	26,673	6,488	741	(1,335)
Gansu Datang Yumen Wind Power Company Ltd.	133,980	78,236	10,104	(335)
Datang Chifeng Renewable Power Co., Ltd	1,130,479	671,765	121,277	56,725
Datang KEPCO Chaoyang Renewable Power	25,973	8,646		
Rabigh Electricity Company	1,815,708	1,976,274		(372)
Rabigh Operation & Maintenance Company	863	520	650	235
Jamaica Public Service Company Limited	1,191,391	769,188	553,196	13,711
KW Nuclear Components Co., Ltd.	8,922	9,767		(1,609)
Busan shinho Solar power Co., Ltd.	10			
STX Electric Power Co., Ltd.	44,967	5,345		(377)

Investee	Dec. 31, 2010			
	Total assets	Total liabilities	Sales	Net income
<b>ASSOCIATES</b>				
Daegu Green Power Co., Ltd.	(Won) 14,358	(Won) 186	(Won)	(Won) (748)
Korea Gas Corporation	30,023,269	22,294,581	22,740,460	276,831
Korea Electric Power Industrial Development Co., Ltd.	107,529	47,278	241,644	18,208
YTN Co. Ltd.	316,535	150,558	116,676	5,121
Cheongna Energy Co., Ltd.	332,163	245,437	6,963	(7,467)
Gangwon Wind Power Co., Ltd.	162,533	105,684	19,949	7,106
Hyundai Green Power Co., Ltd.	509,667	361,000	76,224	24,167
Korea Power Exchange	169,212	13,155	77,033	9,527
The 3rd energy fund	4,626			
AMEC Partners Korea	1,221	428	496	(1,454)
Hyundai Energy Co., Ltd.	113,512	24,571		(2,881)
Ecollite Co. Ltd.	4,350	22		(515)
Taebaek Wind Power Co., Ltd.	9,858	13		(111)
Alternergy Philippine Investments Corporation	1,607	31		(594)
Muju Wind Power Co., Ltd.	11,250	38		(188)
Pyeongchang Wind Power Co., Ltd.	43			(7)
Daeryun Power	22,212	41		(573)

**Table of Contents**

	<b>Dec. 31, 2010</b>			
<b>Investee</b>	<b>Total assets</b>	<b>Total liabilities</b>	<b>Sales</b>	<b>Net income</b>
JinanJangsu Wind Power CO., Ltd.	319	2		(81)
Changjuk Wind Power Co., Ltd.	399	1		(2)
Commerce and industry energy				
Co., Ltd	31,554	3,390		(10)
SPC Power Corporation	95,436	12,805	24,239	15,605
Gemeng International Energy Group Co., Ltd.	4,286,124	2,688,636	768,528	(53,547)
PT. Cirebon Electric Power	730,804	654,495		(9,402)
KNOC Nigerian East Oil Co., Ltd.	254,420	304,057		(8,311)
KNOC Nigerian West Oil Co., Ltd.	153,399	198,800		(7,865)
Dolphin Property Limited	5,594	7,857	1,155	(642)
E-Power S.A	48,948	42,868		(1,377)
PT Wampu Electric Power	27,770	558		(3,014)
PT. Bayan Resources TBK	1,048,244	664,435	1,111,654	37,673
<b>JOINT VENTURES</b>				
Eco Biomass Energy Sdn. Bhd.	14,976	574		(2,157)
Datang Chaoyang Renewable Power Co., Ltd.	76,531	38,685	3,547	1,544
Shuweiha Asia Power Investment B.V.	27			
Kings Plaza JV, LLC	25,910	14,807	10,440	778
KEPCO SPC Power Corporation	436,653	312,627		(5,954)
Canada Korea Uranium Limited Partnership	43,265	43		(1)
KEPCO Energy Resource Nigeria Limited	31,524	8,634	5,843	493
Gansu Datang Yumen Wind Power Company Ltd.	135,697	81,810	14,712	4,676
Datang Chifeng Renewable Power Co., Ltd.	1,040,214	703,151	116,416	42,942
Rabigh Electricity Company	1,193,950	1,262,867		
Rabigh Operation & Maintenance Company	152			
KW Nuclear Components Co., Ltd.	6,455	5,691		(840)
<b>Jan. 1, 2010</b>				
<b>Investee</b>	<b>Total assets</b>		<b>Total liabilities</b>	
<b>ASSOCIATES</b>				
Korea Gas Corporation	(Won) 28,624,441		(Won) 21,114,676	
Korea District Heating Corporation	2,902,148		2,032,962	
LG Uplus Corp.	2,043,231		1,137,621	
Korea Electric Power Industrial Development Co., Ltd.	108,496		54,307	
YTN Co. Ltd.	329,655		165,974	
Cheongna Energy Co., Ltd.	223,220		166,985	
Gangwon Wind Power Co., Ltd.(*1)	148,096		99,025	
Hyundai Green Power Co., Ltd.	376,924		251,915	
Korea Power Exchange	156,991		10,460	
The 3rd energy fund	2,805		77	
Korea Solar Holding Co., Ltd.	8,809		9,291	
AMEC Partners Korea(*2)	1,074		157	
Hyundai Energy Co., Ltd.	19,981		3,335	
Ecollite Co. Ltd.	2,365			
Taebaek Wind Power Co., Ltd.	9,950			
Alternergy Philippine Investments Corporation	1,594		38	
SPC Power Corporation	87,873		13,369	
Gemeng International Energy Group Co.,Ltd.	1,611,481		4,714	
PT. Cirebon Electric Power.	434,928		301,536	



**Table of Contents**

	Jan. 1, 2010	
Investee	Total assets	Total liabilities
KNOC Nigerian East Oil Co.,Ltd.	256,243	283,919
KNOC Nigerian West Oil Co.,Ltd.	153,075	177,994
Dolphin Property Limited.	6,633	6,741
E-Power S.A	48,948	42,868
<b>JOINT VENTURES</b>		
Eco Biomass Energy Sdn. Bhd.	13,434	3,924
Datang Chaoyang Renewable Power Co.,Ltd.	5,966	
KEPCO SPC Power Corporation	347,803	258,366
Canada Korea Uranium Limited Partnership	34,181	34
KEPCO Energy Resource Nigeria Limited	33,990	9,767
Gansu Datang Yumen Wind Power Company Ltd.	135,760	90,256
Datang Chifeng Renewable Power Co.,Ltd.	877,027	604,504
Rabigh Electricity Company	790,210	795,382
Rabigh Operation & Maintenance Company	156	
KW Nuclear Components Co., Ltd.	1,610	6

- (5) As of December 31, 2011, December 31, 2010 and January 1, 2010, there is no unrecognized equity interest related to investments in associates whose book value has been reduced to zero due to accumulated losses.

19. **PROPERTY, PLANT AND EQUIPMENT:**

- (1) Property, plant and equipment as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	Dec. 31, 2011				
	Acquisition cost	Government grants	Accumulated depreciation	Accumulated impairment losses(*1)	Book value
Land	(Won) 13,161,848	(Won) (3,106)	(Won)	(Won)	(Won) 13,158,742
Buildings	11,176,328	(46,097)	(2,976,955)	(853)	8,152,423
Structures	47,437,594	(170,474)	(10,737,933)	(1,183)	36,528,004
Machinery	36,967,714	(97,725)	(6,847,662)	(11,229)	30,011,098
Ships	4,199		(2,959)		1,240
Vehicles	166,188	(2)	(127,969)		38,217
Equipment	700,265	(301)	(527,506)		172,458
Tools	609,581	(448)	(492,678)		116,455
Construction in- progress	20,001,400	(89,600)			19,911,800
Finance lease assets	2,385,276		(1,393,076)		992,200
Asset retirement costs	3,369,869		(1,644,423)		1,725,446
Others	6,117,233		(4,540,435)		1,576,798
	(Won) 142,097,495	(Won) (407,753)	(Won) (29,291,596)	(Won) (13,265)	(Won) 112,384,881

**Table of Contents**

	<b>Dec. 31, 2010</b>				
	<b>Acquisition cost</b>	<b>Government grants</b>	<b>Accumulated depreciation</b>	<b>Accumulated impairment losses(*1)</b>	<b>Book value</b>
Land	(Won) 12,894,296	(Won) (3,099)	(Won)	(Won)	(Won) 12,891,197
Buildings	10,378,964	(45,365)	(2,372,706)	(853)	7,960,040
Structures	44,800,178	(159,848)	(9,437,529)	(1,183)	35,201,618
Machinery	31,565,887	(82,632)	(3,668,691)	(11,229)	27,803,335
Ships	4,494		(2,975)		1,519
Vehicles	164,545	(9)	(125,467)		39,069
Equipment	631,998	(393)	(472,999)		158,606
Tools	582,339	(638)	(465,145)		116,556
Construction in-progress	19,346,114	(92,736)			19,253,378
Finance lease assets	2,385,007		(1,264,602)		1,120,405
Asset retirement costs	3,232,407		(1,491,485)		1,740,922
Others	5,123,727		(4,003,906)		1,119,821
	(Won) 131,109,956	(Won) (384,720)	(Won) (23,305,505)	(Won) (13,265)	(Won) 107,406,466

  

	<b>Jan. 1, 2010</b>				
	<b>Acquisition cost</b>	<b>Government grants</b>	<b>Accumulated depreciation</b>	<b>Accumulated impairment losses(*1)</b>	<b>Book value</b>
Land	(Won) 12,894,536	(Won) (2,967)	(Won)	(Won)	(Won) 12,891,569
Buildings	9,776,164	(44,204)	(1,670,889)	(5,458)	8,055,613
Structures	42,080,670	(150,602)	(7,564,006)	(2,880)	34,363,182
Machinery	28,496,913	(80,698)	(378,795)	(14,597)	28,022,823
Ships	4,209		(2,406)		1,803
Vehicles	147,634	(16)	(120,979)		26,639
Equipment	561,594	(427)	(445,958)		115,209
Tools	532,560	(375)	(428,515)		103,670
Construction in-progress	15,146,989	(98,041)			15,048,948
Finance lease assets	2,384,746		(1,136,142)		1,248,604
Asset retirement costs	3,121,752		(1,415,877)		1,705,875
Others	4,680,043		(3,512,406)		1,167,637
	(Won) 119,827,810	(Won) (377,330)	(Won) (16,675,973)	(Won) (22,935)	(Won) 102,751,572

(\*1) The Company recognizes impairment loss on each asset separately, reflecting various factors such as physical impairment during the replacement.

**Table of Contents**

(2) Changes in property, plant and equipment for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	Jan.1, 2011		Acquisition		Disposal		2011 Depreciation		Impairment	Others	Dec.31, 2011	
	(Won)		(Won)		(Won)		(Won)		(Won)	(Won)	(Won)	
Land	12,891,197		53,250		(11,872)					226,167		13,158,742
Buildings	7,960,040		75,970		(10,505)		(637,947)			764,865		8,152,423
Structures	35,201,618		55,187		(313,009)		(1,768,899)			3,353,107		36,528,004
Machinery	27,803,335		754,350		(200,053)		(3,244,487)			4,897,953		30,011,098
Ships	1,519						(279)					1,240
Vehicles	39,069		3,379		(123)		(15,066)			10,958		38,217
Equipment	158,606		51,023		(127)		(70,595)			33,551		172,458
Tools	116,556		31,505		(119)		(49,065)			17,578		116,455
Construction in- progress	19,253,378		9,564,163							(8,905,741)		19,911,800
Finance lease assets	1,120,405		5,894				(151,305)			17,206		992,200
Asset retirement costs	1,740,922						(92,140)			76,664		1,725,446
Others	1,119,821		15,681		(6)		(751,951)			1,193,253		1,576,798
	(Won) 107,406,466		(Won) 10,610,402		(Won) (535,814)		(Won) (6,781,734)		(Won)	(Won) 1,685,561		(Won) 112,384,881

	Jan.1, 2010		Acquisition		Disposal		2010 Depreciation		Impairment	Others	Dec.31, 2010	
	(Won)		(Won)		(Won)		(Won)		(Won)	(Won)	(Won)	
Land	12,891,569		33,337		(75,332)					41,623		12,891,197
Buildings	8,055,613		27,539		(9,599)		(708,518)			595,005		7,960,040
Structures	34,363,182		11,821		(253,845)		(1,676,189)			2,756,649		35,201,618
Machinery	28,022,823		322,565		(191,961)		(3,102,059)			2,751,967		27,803,335
Ships	1,803						(284)					1,519
Vehicles	26,639		3,426		(7)		(12,033)			21,044		39,069
Equipment	115,209		36,168		(187)		(54,152)			61,568		158,606
Tools	103,670		27,849		(69)		(42,225)			27,331		116,556
Construction in- progress	15,048,948		9,704,947							(5,500,517)		19,253,378
Finance lease assets	1,248,604		157		(6)		(207,577)			79,227		1,120,405
Asset retirement costs	1,705,875						(86,648)			121,695		1,740,922
Others	1,167,637		16,228		658		(688,406)			623,704		1,119,821
	(Won) 102,751,572		(Won) 10,184,037		(Won) (530,348)		(Won) (6,578,091)		(Won)	(Won) 1,579,296		(Won) 107,406,466

20. INVESTMENT PROPERTIES

(1) Investment properties as of December 31, 2011, December 31, 2010, and January 1, 2010 are as follows (KRW in millions):

	Dec. 31, 2011				
	Acquisition cost	Government grants	Accumulated amortization	Accumulated impairment losses	Book value

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Land	(Won) 498,280	(Won)	(Won)	(Won)	(Won) 498,280
Building	29,909	(246)	(10,794)		18,869
	(Won) 528,189	(Won) (246)	(Won) (10,794)	(Won)	(Won) 517,149

F-80

**Table of Contents**

	<b>Dec. 31, 2010</b>				
	<b>Acquisition cost</b>	<b>Government grants</b>	<b>Accumulated amortization</b>	<b>Accumulated impairment losses</b>	<b>Book value</b>
Land	(Won) 507,170	(Won)	(Won)	(Won)	(Won) 507,170
Building	39,948	(17)	(13,935)		25,996
	(Won) 547,118	(Won) (17)	(Won) (13,935)	(Won)	(Won) 533,166

	<b>Jan. 1, 2010</b>				
	<b>Acquisition cost</b>	<b>Government grants</b>	<b>Accumulated amortization</b>	<b>Accumulated impairment losses</b>	<b>Book value</b>
Land	(Won) 485,560	(Won)	(Won)	(Won)	(Won) 485,560
Building	32,477		(10,078)		22,399
	(Won) 518,037	(Won)	(Won) (10,078)	(Won)	(Won) 507,959

(2) Changes in investment properties for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	<b>2011</b>						
	<b>Jan. 01, 2011</b>	<b>Acquisition</b>	<b>Disposal</b>	<b>Depreciation</b>	<b>Impairment</b>	<b>Others</b>	<b>Dec.31, 2011</b>
Land	(Won) 507,170	(Won)	(Won) (63)	(Won)	(Won)	(Won) (8,827)	(Won) 498,280
Buildings	25,996		(942)	(927)		(5,258)	18,869
	(Won) 533,166	(Won)	(Won) (1,005)	(Won) (927)	(Won)	(Won) (14,085)	(Won) 517,149

	<b>2010</b>						
	<b>Jan. 01, 2010</b>	<b>Acquisition</b>	<b>Disposal</b>	<b>Depreciation</b>	<b>Impairment</b>	<b>Others</b>	<b>Dec.31, 2010</b>
Land	(Won) 485,560	(Won)	(Won)	(Won)	(Won)	(Won) 21,610	(Won) 507,170
Buildings	22,399			(1,129)		4,726	25,996
	(Won) 507,959	(Won)	(Won)	(Won) (1,129)	(Won)	(Won) 26,336	(Won) 533,166

(3) Income and expenses related to investment properties for the year ended December 31, 2011 and 2010 are as follows (KRW in millions):

	<b>2011</b>	<b>2010</b>
Rent income	(Won) 8,639	(Won) 7,593
Operating and maintenance expenses (related to investment property which incurs rental income)	(927)	(1,129)
	(Won) 7,712	(Won) 6,464

- (4) The details of fair value of major investment properties as of December 31, 2011, December 31, 2010, and January 1, 2010 are as follows (KRW in millions):

	Dec. 31, 2011		Dec. 31, 2010		Jan. 1, 2010	
	Book value	Fair value	Book value	Fair value	Book value	Fair value
Land	(Won) 498,280	(Won) 529,532	(Won) 507,170	(Won) 571,059	(Won) 485,560	(Won) 485,560
Buildings	18,869	18,067	25,996	25,559	22,399	22,399
	(Won) 517,149	(Won) 547,599	(Won) 533,166	(Won) 596,618	(Won) 507,959	(Won) 507,959

F-81

**Table of Contents**

As of January 1, 2010, the Company assessed the fair value of its investment property using an independent third party. The independent third party has adequate experiences and qualifications to assess investment properties in Republic of Korea. The independent third party used benchmarking methods considering the economic value and similar other properties in the market. Valuation techniques used conform to the International Valuation Standards, based on both the income and market valuation approach.

21. **CONSTRUCTION CONTRACTS:**

(1) Changes in balance of construction contracts for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	2011			
	Jan. 1, 2011	Increase and decrease(*1)	Recognized revenue	Dec. 31, 2011
Nuclear power plant construction in UAE	(Won) 23,857,073	(Won)	(Won) (1,167,433)	(Won) 22,689,640
Kazakhstan EPC and others	573,014	579,622	(287,699)	864,937
	(Won) 24,430,087	(Won) 579,622	(Won) (1,455,132)	(Won) 23,554,577

(\*1) The increased balance of contracts from new orders and others for the year ended December 31, 2011 is (Won) 593,979 million and the decreased balance of contracts from changes in scale of construction for 2011 is (Won) 14,357 million.

	2010			
	Jan. 1, 2011	Increase and decrease(*1)	Recognized revenue	Dec. 31, 2011
Nuclear power plant construction in UAE	(Won) 24,458,442	(Won)	(Won) (601,369)	(Won) 23,857,073
Kazakhstan EPC and others	471,388	255,470	(153,844)	573,014
	(Won) 24,929,830	(Won) 255,470	(Won) (755,213)	(Won) 24,430,087

(\*1) The increased balance of contracts from new orders and others for the year ended December 31, 2011 is (Won) 277,950 million and the decreased balance of contracts from changes in scale of construction and others for 2011 is (Won) 22,480 million.

(2) Accumulated earned revenue, expense and others related to the Company's construction as of December 31, 2011, December 31, 2010, and January 1, 2010 are as follows (KRW in millions):

	2011				
	Accumulated earned revenue	Accumulated expense	Accumulated profit	Unearned advance receipts	Retention
Nuclear power plant construction in UAE	(Won) 1,768,802	(Won) 1,739,023	(Won) 29,779	(Won)	(Won)

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Kazakhstan EPC and others	399,549	364,150	35,399	4,289	
	(Won) 2,168,351	(Won) 2,103,173	(Won) 65,178	(Won) 4,289	(Won)

F-82



**Table of Contents**

	2010				
	Accumulated earned revenue	Accumulated expense	Accumulated profit	Unearned advance receipts	Retention
Nuclear power plant construction in UAE	(Won) 601,369	(Won) 601,281	(Won) 88	(Won)	(Won)
Kazakhstan EPC and others	244,128	225,781	18,347	2,770	
	(Won) 845,497	(Won) 827,062	(Won) 18,435	(Won) 2,770	(Won)

- (3) The gross amount due from customers recognized as assets and due to customers recognized as liabilities for contract work as of December 31, 2011, December 31, 2010, and January 1, 2010 are as follows (KRW in millions):

	Dec. 31, 2011		Dec. 31, 2010		Jan. 1, 2010	
	Assets(*1)	Liabilities(*2)	Assets(*1)	Liabilities(*2)	Assets(*1)	Liabilities(*2)
Nuclear power plant construction in UAE	(Won)	(Won) 320,612	(Won) 6,212	(Won)	(Won)	(Won)
Kazakhstan EPC and others	37,301	16,926	12,001	4,263	12,007	5,714
	(Won) 37,301	(Won) 337,538	(Won) 18,213	(Won) 4,263	(Won) 12,007	(Won) 5,714

(\*1) Accounted for as accounts receivables in the Company's consolidated financial statements.

(\*2) Accounted for as non-financial liabilities in the Company's consolidated financial statements.

## 22. INTANGIBLE ASSETS

- (1) Intangible assets as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	Dec. 31, 2011				
	Acquisition cost	Government grants	Accumulated amortization	Accumulated impairment losses	Book value
Software	(Won) 290,846	(Won) (409)	(Won) (197,366)	(Won)	(Won) 93,071
Licences and franchises	3,398		(1,911)		1,487
Copyrights, patents rights and other industrial rights	6,816		(2,741)		4,075
Mining rights	470,958		(76)		470,882
Development expenses	655,222	(11,653)	(571,061)		72,508
Intangible assets under development	56,556	(10,653)			45,903
Usage rights of donated assets and other	278,919	(75)	(198,865)		79,979
Leasehold rights	19,112		(18,232)		880

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Others	141,605	(16)	(49,787)	(11,878)	79,924
	(Won) 1,923,432	(Won) (22,806)	(Won) (1,040,039)	(Won) (11,878)	(Won) 848,709

F-83

**Table of Contents**

	<b>Dec. 31, 2010</b>				
	<b>Acquisition cost</b>	<b>Government grants</b>	<b>Accumulated amortization</b>	<b>Accumulated impairment losses</b>	<b>Book value</b>
Software	(Won) 233,985	(Won) (584)	(Won) (157,145)	(Won)	(Won) 76,256
Licences and franchises	3,399		(1,269)		2,130
Copyrights, patents rights and other industrial rights	4,034		(2,334)		1,700
Mining rights	464,587				464,587
Development expenses	597,137	(25,735)	(488,677)		82,725
Intangible assets under development	12,257				12,257
Usage rights of donated assets and other	371,855	(87)	(278,140)		93,628
Leasehold rights	19,113		(18,196)		917
Others	302,562	(41)	(101,928)	(11,657)	188,936
	(Won) 2,008,929	(Won) (26,447)	(Won) (1,047,689)	(Won) (11,657)	(Won) 923,136

	<b>Jan. 1, 2010</b>				
	<b>Acquisition cost</b>	<b>Government grants</b>	<b>Accumulated amortization</b>	<b>Accumulated impairment losses</b>	<b>Book value</b>
Software	(Won) 203,438	(Won) (665)	(Won) (141,802)	(Won)	(Won) 60,971
Licences and franchises	3,399		(589)		2,810
Copyrights, patents rights and other industrial rights	3,746		(2,061)		1,685
Mining rights					
Development expenses	609,877	(29,848)	(479,508)		100,521
Intangible assets under development	9,994				9,994
Usage rights of donated assets and other	371,942	(99)	(250,186)		121,657
Leasehold rights	19,112		(18,150)		962
Others	292,217	(66)	(78,579)	(11,036)	202,536
	(Won) 1,513,725	(Won) (30,678)	(Won) (970,875)	(Won) (11,036)	(Won) 501,136

**Table of Contents**

(2) Changes in intangible assets for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	2011						
	Jan. 1, 2011	Acquisition	Disposal	Amortization	Impairment	Others	Dec. 31, 2011
Software	(Won) 76,256	(Won) 9,979	(Won) (23)	(Won) (34,093)	(Won)	(Won) 40,952	(Won) 93,071
Licenses and franchises	2,130			(643)			1,487
Copyrights, patents rights and other industrial rights	1,700	201	(5)	(373)		2,552	4,075
Mining rights	464,587					6,295	470,882
Development expenses	82,725	636		(40,023)		29,170	72,508
Intangible assets under development	12,257	29,018				4,628	45,903
Usage rights of donated assets and other	93,628			(13,602)		(47)	79,979
Leasehold rights	917			(37)			880
Others	188,936	2,765	(444)	(5,958)	(221)	(105,154)	79,924
	(Won) 923,136	(Won) 42,599	(Won) (472)	(Won) (94,729)	(Won) (221)	(Won) (21,604)	(Won) 848,709

	2010						
	Jan. 1, 2010	Acquisition	Disposal	Amortization	Impairment	Others	Dec. 31, 2010
Software	(Won) 60,971	(Won) 7,196	(Won)	(Won) (21,672)	(Won)	(Won) 29,761	(Won) 76,256
Licenses and franchises	2,810			(680)			2,130
Copyrights, patents rights and other industrial rights	1,685	72		(318)		261	1,700
Mining rights		426,719				37,868	464,587
Development expenses	100,521	7,478		(42,206)		16,932	82,725
Intangible assets under development	9,994	25,514				(23,251)	12,257
Usage rights of donated assets and other	121,657			(27,982)		(47)	93,628
Leasehold rights	962			(45)			917
Others	202,536	3,434	(210)	(24,541)	(451)	8,168	188,936

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

(Won) 501,136 (Won) 470,413 (Won) (210) (Won) (117,444) (Won) (451) (Won) 69,692 (Won) 923,136

F-85

**Table of Contents**

- (3) Specific intangible assets which are significant as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions, AUD in thousands):

		<b>Dec. 31, 2011</b>			
Type	Descriptions	Currency	Amount	Remaining useful years	
Software	ERP system	KRW	25,400	4 months ~ 4 years	
Mining rights	Mining right of Bylong mine	AUD	401,225		
Development expenses	Development of manufacturing technology Zircaloy tube (21103)	KRW	4,919	2 years	
Development expenses	WH type improved nuclear fuel (21506)	KRW	2,659	1 year and 3 months	
Intangible assets under development	Smart technology verification and standard design project conducting right	KRW	10,000		
Usage rights of donated assets	Songdo international business district (sector 1, 3) Sharing charge	KRW	8,887	5 years and 10 months	
Usage rights of donated assets	Dangjin power plant load facility usage right	KRW	58,240	10 years	
Others	Shingwangju electricity supply facility usage right	KRW	4,986	7 years and 5 months	

		<b>Dec. 31, 2010</b>			
Type	Descriptions	Currency	Amount	Remaining useful years	
Software	ERP system	KRW	29,161	1 year and 4 months ~ 3 years and 5 months	
Mining rights	Mining right of Bylong mine	AUD	401,225		
Development expenses	Development of manufacturing technology Zircaloy tube (21103)	KRW	7,379	3 years	
Development expenses	WH type improved nuclear fuel (21506)	KRW	4,785	2 years and 3 months	
Intangible assets under development	Songdo international business district (sector 1, 3) Sharing charge	KRW	10,410	6 years and 10 months	
Usage rights of donated assets	Dangjin power plant load facility usage right	KRW	64,537	11 years	
Usage rights of donated assets	Boryung dam industrial water usage right	KRW	2,468	2 years	
Others	Shingwangju electricity supply facility usage right	KRW	5,671	8 years and 5 months	

		<b>Jan. 1, 2010</b>			
Type	Descriptions	Currency	Amount	Remaining useful years	
Software	ERP system	KRW	32,254	2 years and 4 months ~ 4 years	
Development expenses	Development of manufacturing technology Zircaloy tube (21103)	KRW	9,839	4 years	
Development expenses	WH type improved nuclear fuel (21506)	KRW	6,912	3 years and 3 months	
Usable and profitable donation assets	Songdo international business district (sector 1, 3) Sharing charge	KRW	11,934	7 years and 10 months	
Usage rights of donated assets	Dangjin power plant load facility usage right	KRW	70,833	12 years	
Usage rights of donated assets	Boryung dam industrial water usage right	KRW	12,338	3 years	
Others	Shingwangju electricity supply facility usage right	KRW	6,330	9 years and 5 months	

**Table of Contents**

- (4) For the years ended December, 2011 and 2010, the Company recognized research and development expense of (Won)523,920 million and (Won)448,754 million, respectively.

**23. ACCOUNT AND OTHER PAYABLES**

- (1) Account and other payables as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	Dec. 31, 2011		Dec. 31, 2010		Jan. 1, 2010	
	Current	Non-current	Current	Non-current	Current	Non-current
Account payables	(Won) 3,132,744	(Won)	(Won) 2,427,327	(Won) 2,250	(Won) 1,927,617	(Won)
Non-trade payables	2,128,989	3,019,479	950,804	4,009,673	1,169,992	3,873,315
Accrued expenses	1,142,440	1,596	986,632	1,368	845,409	1,552
Leasehold deposits received	1,397	100	1,197	400	1,633	200
Other deposits received	42,593	91,594	80,046	76,525	32,063	66,761
Finance lease liabilities	127,033	1,007,976	123,666	1,135,536	117,592	1,259,060
Dividend payable	962		1,473		17,923	
Others		57,392		55,172	53,999	44,602
	(Won) 6,576,158	(Won) 4,178,137	(Won) 4,571,145	(Won) 5,280,924	(Won) 4,166,228	(Won) 5,245,490

**24. BORROWINGS AND DEBENTURES**

- (1) Borrowings and debentures as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	Dec. 31, 2011	Dec. 31, 2010	Jan. 1, 2010
<b>Current liabilities:</b>			
Short-term borrowings	(Won) 1,173,568	(Won) 457,931	(Won) 592,875
Current portion of long-term borrowings	929,508	1,353,890	1,853,368
Current portion of long-term debentures	4,906,203	4,885,287	3,777,048
Current portion of exchangeable bonds		76,490	
Less: Current portion of present value discount	(1,486)	(38)	(66)
Less: Discount on debentures	(1,748)	(4,450)	(1,395)
	7,006,045	6,769,110	6,221,830
<b>Non-current liabilities:</b>			
Long-term borrowings	4,650,986	2,832,668	2,509,245
Debentures	34,643,312	30,100,625	25,511,656
Exchangeable bonds			75,460
Less: Present value discount	(9,667)	(9,766)	(17,753)
Less: Discount on debentures	(86,132)	(75,603)	(81,321)
	39,198,499	32,847,924	27,997,287
	(Won) 46,204,544	(Won) 39,617,034	(Won) 34,219,117

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

(2) Short-term borrowings as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

Type	Dec. 31, 2011		
	Creditor	Interest rate(%)	Amount
Local short-term borrowings	Shinhan bank and others	3.53 ~ 4.87	(Won) 533,046
Foreign short-term borrowings	Korea exchange bank and others	0.96 ~ 2.08	633,866
Bank overdrafts	Nonghyup bank		6,656
			(Won) 1,173,568

F-87



**Table of Contents**

Type	Dec. 31, 2010		Interest rate(%)	Amount
		Creditor		
Local short-term borrowings	Shinhan bank and others		2.81	(Won) 50,000
Foreign short-term borrowings	Standard chartered bank and others		0.01 ~ 1.80	407,931
				(Won) 457,931

Type	Jan. 1, 2010		Interest rate(%)	Amount
		Creditor		
Local short-term borrowings	Shinhan bank and others		2.81 ~ 3.24	(Won) 307,000
Foreign short-term borrowings	BNP Paribas and others		1.15~2.13, 3M Libor+1.40~1.45	285,875
				(Won) 592,875

(3) Long-term borrowings as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions, USD in thousands):

Financial institution	Type	Dec. 31, 2011			
		Interest rate(%)	Maturity	Foreign currency	Local currency
Korea development bank	Others	0.50	2012~2044		11,247
Korea exchange bank	Commercial paper	3.81~4.79, 3M CD + 0.03~0.58	2012~2014		2,200,000
Korea exchange bank	Energy rationalization	2.50	2019		1,450
Korea exchange bank	Development of power resources	3yr KTB rate - 2.25	2013		12,000
Korea exchange bank	Facility	3yr KTB rate - 1.25	2014		38,551
Korea exchange bank	Others	2.75	2011~2021		5,200
Samsung securities	Commercial paper	3M CD + 0.10	2012		100,000
Korea industrial bank	Development of power resources	4.00, 3yr KTB rate - 2.25	2012~2016		50,666
Korea industrial bank	Facility	3yr KTB rate - 1.25	2012		7,000
Korea industrial bank	Development of power resources	3yr KTB rate - 1.25	2016		2,994
Kookmin bank	Development of power resources	4.00	2015		25,080
Hana bank	Development of power resources	4.00, 3yr KTB rate - 2.25	2014		60,900

Export-import Bank of Korea	Project loans	2.00	2026	38,300
-----------------------------	---------------	------	------	--------

**Table of Contents**

Financial		Dec. 31, 2011				
institution	Type	Interest rate(%)	Maturity	Foreign currency		Local currency
Korea Finance Corporation	Facility	1yr KoFC bond rate + 0.08~0.31	2012~2018			1,712,222
Korea Resources Corporation	Development of power resources	3yr KTB rate - 2.25	2013~2026			82,485
Korea Resources Corporation	Project loans					11,290
Korea national oil corporation	Project loans	3yr KTB rate - 2.25	2021~2023	USD	8,784	10,131
Korea Finance Corporation and others	Project loans	3M Libor + 1.63	2013	USD	157,967	182,183
Export-import Bank of US and others	Project loans	4.48~8.28	2014	USD	93,653	108,010
Export-import Bank of Korea	Direct Loan	3M Libor + 2.60~3.70	2027	USD	319,742	368,759
SMBC and others	Others	3M Libor + 1.10~2.30	2013~2033	USD	158,461	182,753
DBS	Facility	3M Libor + 0.25	2013	USD	200,000	230,660
Others	Facility	8.00~14.00	2017~2031	USD	3,714	4,283
Woori bank	Syndicated Loan	3M Libor + 0.27~0.30	2017	USD	116,475	134,330
				USD	1,058,796	5,580,494
Less: Present value discount						(11,153)
Less: Current portion of long-term borrowings						(929,508)
Less: Current portion of present value discount						1,486
						(Won) 4,641,319

Financial		Dec. 31, 2010				
institution	Type	Interest rate(%)	Maturity	Foreign currency		Local currency
Korea development bank	Others	0.50	2011~2044			(Won) 13,301
Korea development bank	Facility	3M CD + 0.66	2011			66,667
Korea exchange bank	Commercial paper	3.16~4.79, 3M CD + 0.15~0.58	2011~2013			1,800,000
Korea exchange bank	Energy rationalization	2.25	2011~2019			2,850
Korea exchange bank	Development of power resources	4.00	2011			18,000
Korea exchange bank	Facility	3yr KTB rate - 1.25	2011~2021			55,082

**Table of Contents**

Financial		Dec. 31, 2010				
institution	Type	Interest rate(%)	Maturity	Foreign currency	Local currency	
Korea industrial bank	Development of	4.00	2012~2016		(Won) 57,666	
	power resources					
Korea industrial bank	Facility	3yr KTB rate - 1.25	2012		14,000	
Korea industrial bank	Development of	3yr KTB rate - 1.25	2016		2,994	
	power resources					
Kookmin bank	Development of	4.00	2015		31,350	
	power resources					
Hana bank	Development of	4.00	2014		81,200	
	power resources					
Export-import Bank of Korea	Project loans	2.00	2026		38,300	
Korea Finance Corporation	Facility	1yr KoFC bond rate + 0.08~0.31	2011~2012		867,222	
Korea Resources Corporation	Development of	3yr KTB rate - 2.25	2013~2026		77,260	
	power resources					
Korea Resources Corporation	Project loans				10,017	
Nonghyup bank	Development of	3yr KTB rate + 0.16	2011		10,000	
	power resources					
Nonghyup bank	Facility	4.00	2011		9,375	
Woori bank	Facility	3yr KTB rate- 1.25	2011		3,580	
Korea national Oil corporation	Project loans	3yr KTB rate - 2.25	2021~2023	USD 9,005	10,256	
Korea Finance Corporation and others	Project loans	3M Libor + 1.63	2013	USD 162,672	185,267	
Export-import Bank of US and others	Project loans	4.48~8.28	2014	USD 89,875	102,359	
Export-import Bank of Korea	Direct Loan	3M Libor + 3.70	2027~2031	USD 262,253	298,680	
SMBC and others	Others	3M Libor + 1.10~2.30	2013~2033	USD 37,476	42,681	
DBS	Facility	3M Libor + 0.25	2013	USD 200,000	227,780	
Others	Facility	8.00~14.00	2017~2031	USD 3,427	3,903	
Woori bank	Syndicated Loan	3M Libor + 0.27~0.50	2017	USD 137,649	156,768	
				USD 902,357	4,186,558	
					(9,804)	
					(1,353,890)	
					38	
					(Won) 2,822,902	

**Table of Contents**

Jan. 1, 2010					
Financial					
institution	Type	Interest rate(%)	Maturity	Foreign currency	Local currency
Korea development bank	Others	0.50	2010~2044		(Won) 15,481
Korea development bank	Facility	1yr KDB bond rate + 0.08~0.33, 3M CD + 0.66	2010~2012		1,922,221
Korea exchange bank	Commercial paper	4.79, 3M CD + 0.21~0.54	2010~2013		1,300,000
Korea exchange bank	Energy rationalization	2.25	2011~2019		4,250
Korea exchange bank	Development of power resources	4.00	2013		24,000
Korea exchange bank	Facility	3yr KTB rate - 1.25	2011~2021		71,082
Korea industrial bank	Development of power resources	4.00	2012~2016		64,666
Korea industrial bank	Facility	3yr KTB rate - 1.25	2012		21,000
Korea industrial bank	Development of power resources	3yr KTB rate - 1.25	2016		2,994
Kookmin bank	Development of power resources	4.00	2015		31,350
Hana bank	Development of power resources	4.00	2014		101,500
Export-import Bank of Korea	Project loans	2.00	2026		38,300
Korea Resources Corporation	Development of power resources	3yr KTB rate - 2.25	2013~2025		53,534
Korea Resources Corporation	Project loans				7,039
Nonghyup bank	Development of power resources	4.00	2011		20,000
Nonghyup bank	Facility	3yr KTB rate + 0.16	2011		46,875
Woori bank	Facility	3M CD + 0.29	2010		100,000
Woori bank	Facility	3yr KTB rate - 1.25	2011		7,160
Ministry of knowledge and economy	Development of power resources	4.00	2010		10,000
Korea national Oil corporation	Project loans	3yr KTB rate - 2.25	2021~2023	USD 8,784	10,256
Korea Finance Corporation and others	Project loans	3M Libor + 1.63	2013		
Export-import Bank of US and others	Project loans	4.48~8.28	2014	USD168,604	196,862
Export-import Bank of Korea	Direct Loan	3M Libor + 2.60~3.70	2027~2031	USD110,140	128,600



**Table of Contents**

Financial		Jan. 1, 2010				
institution	Type	Interest rate(%)	Maturity	Foreign currency	Local currency	
SMBC and others	Others	3M Libor + 1.10~2.30	2013~2033			
DBS	Facility	3M Libor + 0.25	2013			
Others	Facility	8.00~14.00	2017~2031			
Woori bank	Syndicated Loan	3M Libor + 0.27~0.30	2017	USD158,825	185,443	
				USD446,353	4,362,613	
Less: Present value discount					(17,819)	
Less: Current portion of long-term borrowings					(1,853,368)	
Less: Current portion of present value discount					66	
					(Won) 2,491,492	

(4) Debentures as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

Type	Contract period	Annual interest rate(%)	Dec. 31, 2011	Dec. 31, 2010	Jan. 1, 2010
Electricity bonds	2003 ~ 2021	3.35~7.19	(Won) 22,080,000	(Won) 19,690,000	(Won) 15,500,000
Electricity bonds	2010 ~ 2015	3M CD+0.90~1.05	250,000	350,000	
Corporate bonds	2005 ~ 2040	3.85~7.58	7,990,010	6,000,010	5,840,010
			30,320,010	26,040,010	21,340,010
Less: Discount on debentures			(25,425)	(21,629)	(23,348)
Less: Current portion of long-term debentures			(4,180,010)	(3,780,000)	(2,650,000)
Less: Current portion of discount on debentures			860	1,310	861
			(Won) 26,115,435	(Won) 22,239,691	(Won) 18,667,523

(5) Foreign debentures as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

Type	Issue date	Maturity date	Interest rate(%)	Dec. 31, 2011	Dec. 31, 2010	Jan. 1, 2010
FY-93	1993.04.14	2013.04.14	7.75	(Won) 403,655	(Won) 398,615	(Won) 408,660
FY-96	1996.04.01	2096.04.01	6.00~8.28	290,229	287,762	296,313
FY-97	1997.01.31	2027.08.04	6.75~7.00	362,963	358,431	367,464
FY-03	2003.05.25	2016.05.25	4.75~6.00	518,985	512,505	525,420
FY-04	2004.04.21	2034.04.21	4.875~5.75	518,985	968,065	992,460
FY-05	2005.07.25	2012.11.15	3.13~5.25	345,990	341,670	768,850
FY-06	2006.03.14	2016.09.29	5.5	403,655	398,615	408,660

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

FY-07

2007.08.31

2010.10.25

1.02~1.65

353,590

F-92



**Table of Contents**

Type	Issue date	Maturity date	Interest rate(%)	Dec. 31, 2011	Dec. 31, 2010	Jan. 1, 2010
FY-07	2007.10.29	2010.11.22	3M Tibor+0.50,			353,590
			3M Euro Yen Libor+0.05			
FY-08	2008.02.11	2018.11.27	4.15~5.38	989,012	1,076,646	1,069,884
FY-08	2008.04.18	2011.08.20	3M USD Libor+1.50~1.80,		534,679	526,123
			3M JPY Libor+1.70			
FY-09	2009.06.17	2014.07.21	5.5~6.25	1,729,950	1,708,350	1,751,400
FY-09	2009.05.08	2012.05.08	Euro Yen Tibor+2.50	148,516	139,708	126,280
FY-10	2010.09.16	2015.10.05	3.00~3.13	1,383,960	1,366,680	
FY-10	2010.04.15	2015.11.18	3M USD Libor+0.80~1.90	864,975	854,176	
FY-11	2011.07.13	2021.07.13	3.63~4.75	922,640		
FY-11	2011.02.18	2014.09.17	3M USD Libor+0.80~1.00	345,990		
				9,229,505	8,945,902	7,948,694
Less: Discount on debentures				(62,455)	(55,891)	(53,011)
Less: Current portion of long-term liabilities				(726,193)	(1,105,287)	(1,127,048)
Less: Current portion of discount on debentures				888	607	534
				(Won) 8,441,745	(Won) 7,785,331	(Won) 6,769,169

(6) Exchangeable bonds as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

Type	Maturity date	Dec. 31, 2011	Dec. 31, 2010	Jan. 1, 2010
Foreign exchangeable bonds				
2-1	2011.11.23	(Won) JPY 3,238	(Won) 45,241	JPY 3,238 (Won) 40,893
Foreign exchangeable bonds				
2-2	2011.11.23	EUR 20,646	31,249	EUR 20,646 34,567
			76,490	75,460
Less: Discount on debentures			(2,533)	(6,357)
Less: Current portion of exchangeable bonds			(76,490)	
Less: Current portion of discount on debentures			2,533	
		(Won)	(Won)	(Won) 69,103

On November 21, 2006, the Company issued foreign exchangeable bonds in the amount of JPY 61,345,128 thousand and EUR 463,321 thousand, at a discounted value of JPY 60,810,000 thousand and EUR 401,700 thousand, respectively. The main terms of the bonds are as follows:

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Maturity date: November 23, 2011

Exchange period: From January 4, 2007 to 10th day prior to its maturity.

Shares to be exchanged: Common shares of the Company or its equivalent DR

Exchange price: (Won)51,000 per share.

F-93

**Table of Contents**

On November 23, 2009, the bondholders exercised a put option, 94.72% of JPY 60,810,000 thousand and 95.54% of EUR 401,700 thousand.

In accordance with Article 17 Issuance of Convertible Bonds and Article 11 Calculation of Dividend for New Shares of the Articles of Incorporation of the Company, distribution of dividends on new shares resulting from conversion of exchangeable bonds is deemed to have been issued at the beginning of the fiscal year.

(7) Details of exchangeable bonds as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	Issued date	Dec. 31, 2011	Dec. 31, 2010	Jan. 1, 2010
Issue price	2006.11.21	(Won)	(Won) 76,490	(Won) 75,460
Liability component	2006.11.21		76,490	75,460
Equity component	2006.11.21			

Liability component is measured at effective interest method. According to effective interest rate 2.57% (5.72% for prior year), for the years ended December, 2011 and 2010, of interest expenses, (Won)168 million and (Won) 252 million, respectively, is recognized.

The exchangeable bonds above were redeemed during the year ended December 31, 2011.

## 25. FINANCE LEASE LIABILITIES

(1) Lease contracts :

The Company enters into a power purchase agreements ( PPA ) under which the Company is committed to purchase an aggregate capacity of 3,770 megawatts for approximately twenty years from independent power producers, such as, GS EPS and three other providers. The Company recognizes these PPAs as finance leases; under the PPAs, there is no transfer of ownership or bargain purchase option of the plants at the end of the agreement, however, the present value of the future minimum power purchase payments equals substantially all of the plants' respective fair values over a twenty year period which makes up the major part of the respective plants' economic life.

(2) Finance lease liabilities as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	Dec. 31, 2011		Dec. 31, 2010		Jan. 1, 2010	
	Minimum lease payment	Present Value of minimum lease payments	Minimum lease payment	Present Value of minimum lease payments	Minimum lease payment	Present Value of minimum lease payments
Less than 1 year	(Won) 239,007	(Won) 127,033	(Won) 247,393	(Won) 123,666	(Won) 253,609	(Won) 117,592
1 ~ 5 years	790,571	577,172	847,507	619,212	910,091	662,538
More than 5 years	731,788	430,804	913,860	516,324	1,098,669	596,522
	(Won) 1,761,366	(Won) 1,135,009	(Won) 2,008,760	(Won) 1,259,202	(Won) 2,262,369	(Won) 1,376,652

(3) Current and non-current portion of finance lease liabilities as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

	<b>Dec. 31, 2011</b>	<b>Dec. 31, 2010</b>	<b>Jan. 1, 2010</b>
Current finance lease liabilities	(Won) 127,033	(Won) 123,666	(Won) 117,592
Non-current finance lease liabilities	1,007,976	1,135,536	1,259,060
	(Won) 1,135,009	(Won) 1,259,202	(Won) 1,376,652

F-94

**Table of Contents**

- (4) Lease payments recognized as an expense from a lessee position for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	<b>2011</b>	<b>2010</b>
Minimum lease payment	(Won) 282,042	(Won) 304,656
Contingent rent payment	(8,838)	1,972
	(Won) 273,204	(Won) 306,628

- (5) The Company does not have any non-cancelable operating lease contracts as of December 31, 2011 and 2010.

26. **RETIREMENT BENEFIT OBLIGATIONS:**

The Company has both defined benefit plans and defined contribution plans it offers to its employees. Details regarding both plans and the Company's retirement benefit obligations as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows.

- (1) The principal assumptions used on actuarial valuation are as follows:

	<b>Dec. 31, 2011</b>	<b>Dec. 31, 2010</b>	<b>Jan. 1, 2010</b>
Discount rate	4.27%~4.35%	5.10%~5.15%	5.83%~5.94%
Expected rate of return on plan assets	3.17%~6.75%	3.23%~5.28%	3.23%~5.11%
Future salary and benefit levels	2.10%~15.17%	2.10%~15.17%	2.10%~15.17%

- (2) Details of the Company's expense relating to its defined benefit plans for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	<b>2011</b>	<b>2010</b>
Current service cost	(Won) 278,792	(Won) 267,457
Interest cost	117,901	128,953
Expected return on plan assets	(20,781)	(21,030)
Others	435	552
	(Won) 376,347	(Won) 375,932

For the years ended December 31, 2011 and 2010, the retirement benefit obligations expense of (Won)308,629 million and (Won)297,082 million, respectively, is recognized as cost of sales, and (Won) 66,955 and (Won)62,482 million, respectively, is recognized as selling and administrative expenses, and (Won) 44,994 and (Won)34,722 million, respectively, is recognized as others (eg. Construction in-progress, etc.)

In addition, for the years ended December 31, 2011 and 2010, retirement benefit obligations expenses of (Won)44,231 million and (Won)19,254 million, respectively, relates to the Company's defined contribution plans.

**Table of Contents**

- (3) Retirement benefit obligations as of December 31, 2011 and 2010 are as follows (KRW in millions):

	Dec. 31, 2011	Dec. 31, 2010	Jan. 1, 2010
Present value of defined benefit obligation from funded plans	(Won) 2,327,095	(Won) 2,327,753	(Won) 2,411,620
Fair value of plan assets	(459,342)	(433,339)	(490,149)
Present value of defined benefit obligation from unfunded plans	1,423	669	1,090
Net retirement obligations from defined benefit plans	1,869,176	1,895,083	1,922,561

- (4) Changes in retirement benefit obligation for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	2011	2010
Beginning balance	(Won) 2,328,423	(Won) 2,412,710
Current service cost	278,792	267,457
Interest cost	117,901	128,953
Actuarial losses	215,922	109,252
Actual payments	(629,403)	(574,430)
Others	16,882	(15,519)
Ending balance	(Won) 2,328,517	(Won) 2,328,423

- (5) Changes in the present value of the plan assets for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	2011	2010
Beginning balance	(Won) 433,339	(Won) 490,149
Expected return	20,781	21,030
Actuarial losses	(3,148)	(561)
Contributions by the employers	291,339	96,751
Actual payments	(283,629)	(173,287)
Others	660	743
Ending balance	(Won) 459,342	(Won) 433,339

- (6) The amount of major categories of the fair value of plan assets and expected rate of return on plan assets as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	Dec. 31, 2011	Fair value of plan assets Dec. 31, 2010	Jan. 1, 2010
Equity instruments	(Won) 52,285	(Won) 48,993	(Won) 39,761
Debt instruments	130,346	176,025	163,723
Bank deposit	152,387	113,423	83,459

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Others	124,324	94,898	203,206
	(Won) 459,342	(Won) 433,339	(Won) 490,149

F-96

**Table of Contents**

	Expected rate of return on plan assets		
	Dec. 31, 2011	Dec. 31, 2010	Jan. 1, 2010
Equity instruments	5.18%	5.67%	5.08%
Debt instruments	4.79%	4.90%	4.98%
Bank deposit	4.81%	4.74%	5.09%
Others	4.88%	5.31%	3.70%
Weighted average	4.86%	5.03%	4.49%

Expected rate of return on plan assets is weighted average of expected rate of return on each category. The managements estimate expected rate of return based on historical trend of yield and market forecasting analysis for the period during defined benefit obligations exist.

In addition, for the years ended December, 2011 and 2010, actual returns on plan assets are (Won)17,633 million and (Won)20,469 million, respectively.

- (7) Other long-term employee benefits obligations as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	Dec. 31, 2011	Dec. 31, 2010	Jan. 1, 2010
Other long-term employee benefit obligations	(Won) 73,818	(Won) 69,072	(Won) 62,570

27. **PROVISIONS:**

*Litigation*

The Company is involved in legal proceedings regarding matters arising in the ordinary course of business. Related to these matters, as of December 31, 2011, the Company was engaged in 429 lawsuits as a defendant and 103 lawsuits as a plaintiff. The total amount claimed against the Company was (Won)138,498 million and the total amount claimed by the Company was (Won)21,403 million as of December 31, 2011. As of December 31, 2011, the Company had an accrual for loss contingencies of (Won)44,409 million. The Company records liabilities for estimated loss contingencies when the Company assesses that a loss is probable and the amount of the loss can be reasonably estimated. The determination for a loss contingency is based on management judgment and estimates with respect to the likely outcome of the matter, including the analysis of different scenarios. Liabilities are recorded or adjusted when events or circumstances cause these judgments or estimates to change. In assessing whether a loss is a reasonable possibility, the Company may consider the following factors: the nature of the litigation, claim or assessment, available information, opinions or views of legal counsel and other advisors, and the experience gained from similar cases. The Company provides disclosures for material contingencies when there is a reasonable possibility that a loss or an additional loss may be incurred.

As new developments occur or more information becomes available, our assumptions and estimates of these liabilities may change. Revisions to contingent liabilities are generally reflected in income when new or different facts or information become known or circumstances change that affect previous assumptions with respect to the likelihood or amount of loss. If changes in these or other assumptions or the anticipated outcomes the Company uses to estimate contingencies cause a loss to become more likely, it could materially affect future results of operations for any particular quarterly or annual period.

Actual amounts realized upon settlement of contingencies may be different than amounts recorded and disclosed and could have a significant impact on the liabilities and expenses recorded on the consolidated financial statements.



**Table of Contents***Provision for decommissioning cost*

Under the Korean Electricity Business Act (EBA) Article 94, the Company is required to record a liability for the dismantling of nuclear power plants and disposal of spent fuel and low & intermediate radioactive wastes. In addition, under the Korean Atomic Energy Act (AEA), an entity which constructs and operates a nuclear power reactor and related facilities must obtain permission from the Ministry of Education, Science and Technology (the MEST, formerly the Ministry of Science and Technology).

Accretion expense consists of period-to-period changes in the liability for decommissioning costs resulting from passage of time and changes in estimate related to either the timing or the amount of the initial estimate of undiscounted cash flows. This cost is included in cost of electric power in the accompanying statements of operations.

*Provisions of decontamination of transformer PCBs*

Under the regulation of Persistent Organic Pollutants Management Act, enacted in 2007, the Company is required to remove polychlorinated biphenyls (PCBs), a toxin, from the insulating oil of its transformers by 2025. As a result of the enactments, the Company is required to inspect the PCBs contents of transformers and dispose of PCBs in excess of safety standards under the legally settled procedures. The Company's estimates and assumptions used to determine fair value can be affected by many factors, such as the estimated costs of inspection and disposal, inflation rate, discount rate, regulations and the general economy.

(1) Provisions as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	Dec. 31, 2011		Dec. 31, 2010		Jan. 1, 2010	
	Current	Non-current	Current	Non-current	Current	Non-current
Litigation						
Litigation provision	(Won)	(Won)	44,409	(Won)	(Won)	79,116
Decommissioning cost						
Nuclear plants		5,061,265		4,694,607		4,498,716
Spent fuel		869,549		834,247		743,103
Waste		796,521		447,473		453,404
PCBs		215,082		278,011		231,470
Other recovery provisions						
Others						
Power plant regional support program	91,987		76,955		65,360	
Provision for tax		2,013		8,219		8,119
Provision for financial guarantee		11,300				
Others	396	96	324	688	398	1,507
	(Won) 92,383	(Won) 7,000,235	(Won) 77,279	(Won) 6,342,361	(Won) 65,758	(Won) 5,981,636

**Table of Contents**

(2) Changes in provisions for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	2011						
	Jan. 1, 2011	Liabilities incurred	Accretion expense	Payment	Reversal	Other	Dec. 31, 2011
Litigation							
Litigation provision	(Won) 79,116	(Won) 40,144	(Won) 628	(Won) (7,373)	(Won) (39,124)	(Won) (28,982)	(Won) 44,409
Decommissioning cost							
Nuclear plants	4,694,607	155,718	210,940				5,061,265
Spent fuel	834,247	197,596	122,004	(284,298)			869,549
Waste(*1)	447,473		279,330	(13,026)		82,744	796,521
PCBs	278,011	22,153	16,351	(16,276)	(85,157)		215,082
Others							
Power plant regional support program	76,955		39,437	(42,299)		17,895	91,987
Provision for tax	8,219	205			(6,411)		2,013
Provision for financial guarantee		11,300					11,300
Others	1,012	211		(70)	(53)	(609)	492
	(Won) 6,419,640	(Won) 427,327	(Won) 668,690	(Won) (363,342)	(Won) (130,746)	(Won) 71,049	(Won) 7,092,618

(\*1) For the year ended December 31, 2011, the Company recorded a change in estimate related to the KHNP s, a subsidiary, asset retirement obligation related to its low and intermediate radioactive waste disposal

	2010						
	Jan. 1, 2010	Liabilities incurred	Accretion expense	Payment	Reversal	Other	Dec. 31, 2010
Litigation							
Litigation provision	(Won) 45,317	(Won) 52,594	(Won) 1,271	(Won) (5,307)	(Won) (14,759)	(Won)	(Won) 79,116
Decommissioning cost							
Nuclear plants	4,498,716		196,164	(273)			4,694,607
Spent fuel	743,103	247,248	95,568	(251,671)			834,248
Waste	453,404		17,361	(23,294)			447,472
PCBs	231,470	69,969	15,022	(38,450)			278,011
Others							
Power plant regional support program	65,360		38,536	(45,443)		18,502	76,955
Provision for tax	8,119	101					8,220
Provision for financial guarantee							
Others	1,905	105	616	(66)	(1,443)	(105)	1,012
	(Won) 6,047,394	(Won) 370,017	(Won) 364,538	(Won) (364,504)	(Won) (16,202)	(Won) 18,397	(Won) 6,419,640

28. DEFERRED REVENUE

## Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

- (1) Deferred revenue related to the Company's construction contracts as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	<b>Dec. 31, 2011</b>	<b>Dec. 31, 2010</b>	<b>Jan. 1, 2010</b>
Deferred revenue	(Won) 5,428,993	(Won) 5,003,994	(Won) 4,637,085

F-99

**Table of Contents**

29. NON-FINANCIAL LIABILITIES

(1) Non-financial liabilities as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	Dec. 31, 2011		Dec. 31, 2010		Jan. 1, 2010	
	Current	Non-current	Current	Non-current	Current	Non-current
Advance received	(Won) 2,866,238	(Won) 6,607	(Won) 1,752,595	(Won) 9,847	(Won) 1,235,140	(Won) 388,903
Unearned revenue	47,620	152,750	91,362	175,021	88,543	197,332
Deferred revenue		5,428,993		5,003,994		4,637,085
Withholdings	236,834	4,911	215,464	6,515	197,030	6,875
Others	390,870	17,749	323,882	26,479	307,988	20,987
	(Won) 3,541,562	(Won) 5,611,010	(Won) 2,383,303	(Won) 5,221,856	(Won) 1,828,701	(Won) 5,251,182

30. CONTRIBUTED CAPITAL:

(1) Composition of shares issued as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	Dec. 31, 2011					
	Shares authorized	Shares issued	Par value per share	Owned by Government	Others	Total
Common shares	1,200,000,000	641,964,077	(Won) 5,000	(Won) 1,640,385	(Won) 1,569,435	(Won) 3,209,820

	Dec. 31, 2010					
	Shares authorized	Shares issued	Par value per share	Owned by Government	Others	Total
Common shares	1,200,000,000	641,567,712	(Won) 5,000	(Won) 1,638,404	(Won) 1,569,435	(Won) 3,207,839

	Jan. 1, 2010					
	Shares authorized	Shares issued	Par value per share	Owned by Government	Others	Total
Common shares	1,200,000,000	641,567,712	(Won) 5,000	(Won) 1,638,404	(Won) 1,569,435	(Won) 3,207,839

(2) Changes in number of outstanding capital stock for the years ended December. 31, 2011 and 2010 :

	2011	2010
Beginning balance	641,567,712	641,567,712
Increased shares issued(*1)	396,365	
Ending balance	641,964,077	641,567,712

## Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

- (\*1) On April 21, 2011, the Board of Directors of KEPCO approved the issuance of 396,365 shares of common stock to the Korean government. The Company issued new shares in consideration for the Korean government's capital contribution to the Company; the Korean government transferred electricity transmission lines and related equipments from the Korean military to the Company.
- (3) Composition of Share premium as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	<b>Dec. 31, 2011</b>	<b>Dec. 31, 2010</b>	<b>Jan. 1, 2010</b>
Share premium	(Won) 843,758	(Won) 835,140	(Won) 835,140

F-100

**Table of Contents**31. RETAINED EARNINGS AND DIVIDENDS PAID

- (1) Compositions of retained earnings as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	Dec. 31, 2011	Dec. 31, 2010	Jan. 1, 2010
Legal reserve(*1)	(Won) 1,603,919	(Won) 1,603,919	(Won) 1,603,919
Voluntary reserves	21,766,678	21,828,100	21,905,812
Retained earnings before appropriations	12,398,497	15,864,213	15,987,364
Retained earnings	(Won) 35,769,094	(Won) 39,296,232	(Won) 39,497,095

- (\*1) The KEPCO Act requires the Company to appropriate a legal reserve equal to at least 20 percent of net income for each accounting period until the reserve equals 50 percent of the Company's common stock. The legal reserve is not available for cash dividends; however, this reserve may be credited to paid-in capital or offset against accumulated deficit by the resolution of the shareholders.

- (2) Compositions of voluntary reserves as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	Dec. 31, 2011	Dec. 31, 2010	Jan. 1, 2010
Reserve for investment on social overhead capital	(Won) 5,277,449	(Won) 5,277,449	(Won) 5,277,449
Reserve for research and human development(*1)	330,000	330,000	330,000
Reserve for business expansion	15,949,229	16,010,651	16,088,363
Reserve for equalizing dividends	210,000	210,000	210,000
	(Won) 21,766,678	(Won) 21,828,100	(Won) 21,905,812

- (\*1) The reserve for research and human development is appropriated by the Company to use as qualified tax credits to reduce corporate tax liabilities. The reserve is available for cash dividends for a certain period as defined by the Tax Incentive Control Law of Korea.

- (3) Changes in retained earnings for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	2011	2010
Beginning balance	(Won) 39,296,232	(Won) 39,497,095
Net income(loss) attributable to Owners of the parent Company	(3,370,464)	(119,931)
Changes in equity method retained earnings	(5,002)	(2,056)
Actuarial losses	(151,672)	(78,876)
Ending balance	(Won) 35,769,094	(Won) 39,296,232

- (4) Dividends paid for the years ended December 31, 2011 and 2010 are as follows :

	2011				
	Number of shares issued	Number of treasury shares	Number of shares eligible for dividends	Dividends Paid	Dividends paid per share
Common shares	641,964,077	18,929,995	623,034,082		
Preferred shares					

F-101

**Table of Contents**

	2010		Number of shares eligible for dividends	Dividends Paid	Dividends paid per share
	Number of shares issued	Number of treasury shares			
Common shares	641,567,712	18,929,995	622,637,717		
Preferred shares					

- (5) Changes in retained earnings of investment in associates and joint ventures for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	2011	2010
Beginning balance	(Won) 2,056	(Won)
Changes	(9,189)	(3,380)
Income tax effect	4,187	1,324
Ending balance	(Won) 7,058	(Won) 2,056

- (6) Changes in actuarial losses on retirement benefit obligations for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	2011	2010
Beginning balance	(Won) 85,605	(Won)
Changes	219,070	109,813
Income tax effect	(66,873)	(24,208)
Ending balance	(Won) 237,802	(Won) 85,605

### 32. STATEMENT OF APPROPRIATION OF RETAINED EARNINGS

For the year ended December 31, 2011, the Company's retained earnings are expected to be appropriated on March 30, 2012. For the year ended December 31, 2010, the Company's retained earnings were appropriated on March 11, 2011.

Statements of appropriation of retained earnings of KEPCO, the parent, for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	2011	2010
<b>I. RETAINED EARNINGS BEFORE APPROPRIATIONS:</b>		
Retained earnings carried over from prior year	(Won) 7,826,305	(Won)
Effect of transition to IFRS		9,317,382
Loss for the period	(3,514,130)	(1,478,227)
Actuarial losses	(117,538)	(74,271)
	4,194,637	7,764,884
<b>II. TRANSFER FROM VOLUNTARY RESERVES:</b>		



Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Transfer from reserve for business expansion		61,421
		61,421
III. SUBTOTAL(I + II )	(Won) 4,194,637	(Won) 7,826,305
IV. APPROPRIATIONS OF RETAINED EARNINGS:		
Transfer to reserve for business expansion	(4,194,637)	
	(4,194,637)	
V. UNAPPROPRIATED RETAINED EARNINGS TO BE		
Carried forward to subsequent year	(Won)	(Won) 7,826,305

F-102

**Table of Contents**33. OTHER COMPONENTS OF EQUITY

- (1) Other components of equity of the parent as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows(KRW in millions):

	Dec. 31, 2011	Dec. 31, 2010	Jan. 1, 2010
Other capital surpluses	(Won) 639,028	(Won) 569,630	(Won) 471,708
Accumulated other comprehensive income	255,095	355,626	306,235
Treasury shares	(741,489)	(741,489)	(741,489)
Other equity	13,294,990	13,295,000	13,295,000
	(Won) 13,447,624	(Won) 13,478,767	(Won) 13,331,454

- (2) Changes in other capital surplus of the parent for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	2011		2010	
	Gains on disposal of treasury shares	Others	Gains on disposal of treasury shares	Others
Beginning balance	(Won)	(Won) 569,630	(Won)	(Won) 471,708
Disposal of subsidiary		91,541		129,185
Increase of shares issued				
Reduction of shares issued				
Income tax effect		(22,143)		(31,263)
Ending balance	(Won)	(Won) 639,028	(Won)	(Won) 569,630

- (3) Changes in accumulated other comprehensive income (loss) of the parent for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	2011			
	Available-for-sale financial asset valuation reserve	Share in other comprehensive income of investments in associates and joint ventures	Reverse for overseas operations translation credit	Reverse for gains(loss) on valuation of derivatives
Beginning balance	(Won) 148,753	(Won) 188,566	(Won) (7,685)	(Won) 25,992
Net change in fair value of available- for-sale financial assets	(174,937)			
Valuation of investments in associates and joint ventures		50,881	42,173	

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Overseas operations  
translation

Valuation of derivatives (18,648)

Ending balance (Won) (26,184) (Won) 239,447 (Won) 34,488 (Won) 7,344

F-103

**Table of Contents**

	<b>2010</b>			
	<b>Available-for-sale financial asset valuation reserve</b>	<b>Share in other comprehensive income of investments in associates and joint ventures</b>	<b>Reverse for overseas operations translation credit</b>	<b>Reverse for gains(loss) on valuation of derivatives</b>
Beginning balance	(Won) 24,430	(Won) 220,807	(Won)	(Won) 60,997
Net change in fair value of available- for-sale financial assets	124,323			
Valuation of investments in associates and joint ventures		(32,241)		
Overseas operations translation			(7,685)	
Valuation of derivatives				(35,005)
Ending balance	(Won) 148,753	(Won) 188,566	(Won) (7,685)	(Won) 25,992

(4) Changes in treasury shares for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	<b>2011</b>	<b>2010</b>
Beginning balance	(Won) (741,489)	(Won) (741,489)
Changes		
Ending balance	(Won) (741,489)	(Won) (741,489)

(5) Changes in other equity for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	<b>2011</b>	<b>2010</b>
Beginning balance	(Won) 13,295,000	(Won) 13,295,000
Changes	(10)	
Ending balance	(Won) 13,294,990	(Won) 13,295,000

34. **SALES**

(1) Details of sales for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	<b>2011</b>		<b>2010</b>	
	<b>Domestic</b>	<b>Overseas</b>	<b>Domestic</b>	<b>Overseas</b>
Sales of goods				
Sales of electricity	40,859,998		37,202,310	
Sales of heat supply	190,336		229,960	
Others	442,486	261,734	327,859	244,196

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

	(Won) 41,492,820	(Won) 261,734	(Won) 37,760,129	(Won) 244,196
Sales of service	186,837	135,779	230,787	516,257
Sales of construction contracts	171,411	1,283,721	97,656	657,557
	(Won) 41,851,068	(Won) 1,681,234	(Won) 38,088,572	(Won) 1,418,010

F-104

**Table of Contents**35. SELLING AND ADMINISTRATIVE EXPENSES

(1) Composition of selling and administrative expenses for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	<b>2011</b>	<b>2010</b>
Salaries	(Won) 537,137	(Won) 532,502
Retirement benefit expense	66,955	62,482
Welfare and benefit expense	104,588	91,731
Insurance expense	3,066	2,310
Depreciation	41,900	31,560
Amortization of intangible assets	53,525	42,448
Bad debt expense	14,269	13,098
Commission	509,846	499,728
Advertising expense	21,918	22,371
Training expense	5,125	3,994
Vehicle maintenance expense	11,690	10,276
Publishing expense	2,858	2,591
Business promotion expense	3,171	3,198
Rent expense	26,550	27,429
Telecommunication expense	23,722	24,627
Transportation expense	226	351
Taxes and dues	64,707	56,268
Expendable supplies expense	3,720	3,600
Water, light and heating expense	8,683	8,797
Repairs and maintenance expense	12,232	9,659
Ordinary development expense	134,929	118,767
Travel expense	11,019	9,350
Clothing expense	2,356	2,242
Survey and analysis expense	769	722
Membership fee	609	523
Others	86,127	64,136
	(Won) 1,751,697	(Won) 1,644,760

36. OTHER OPERATING INCOME AND EXPENSE

(1) Other operating income for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	<b>2011</b>	<b>2010</b>
Reversal of other provisions	(Won) 110	(Won) 14,754
Reversal of allowance for doubtful accounts	460	6,952
Gains on assets contributed	4,392	1,390
Gains on liabilities exempted	4,578	5,679
Compensation and reparations revenue	30,350	12,501
Electricity infrastructure development fund	48,154	41,189
Revenue from research contracts	6,124	542
Revenue related to transfer of assets from customers	280,458	257,505
Rental income	180,563	168,386
Others	43,114	28,017

(Won) 598,303

(Won) 536,915

F-105

**Table of Contents**

- (2) Other operating expense for the years ended December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

	2011	2010
Compensation and reparations expense	(Won) 2,000	(Won)
Transfer to other provisions	238	22,004
Depreciation expenses on investment properties	927	1,129
Depreciation expenses on assets not in use	6,619	6,723
Other bad debt expense	867	471
Donations	100,352	30,874
Others	36,592	8,586
	(Won) 147,595	(Won) 69,787

37. **OTHER INCOME (LOSS)**

- (1) Composition of other income and loss for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	2011	2010
Other income		
Gains on disposition of property plant, and equipment	(Won) 38,776	(Won) 42,037
Reversal of Impairment loss on intangible assets		16
Gains on foreign currency translation(*1)	1,659	4,634
Gains on foreign currency transaction(*1)	100,811	90,452
Insurance proceeds		34
Others	213,624	219,110
Other loss		
Loss on disposition of property plant, and equipment	31,228	46,882
Loss on disposition of intangible assets	5	12
Impairment loss on property, plant, and equipment		26,648
Impairment loss on intangible assets	221	451
Loss on foreign currency translation(*1)	5,402	3,603
Loss on foreign currency transaction(*1)	98,806	97,210
Others	53,505	63,270
	(Won) 165,703	(Won) 118,207

(\*1) Relates to Company's operating activities

38. **FINANCE INCOME**

- (1) Finance income for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):



Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

	<b>2011</b>	<b>2010</b>
Interest income	(Won) 291,625	(Won) 120,422
Dividends income	18,894	3,341
Gains on disposition of financial assets		1,137
Gains on valuation of derivatives	171,341	27,387
Gains on transaction of derivatives	30,660	98,809
Gains on foreign currency translation(*1)	8,172	209,245
Gains on foreign currency transaction(*1)	86,778	131,150
Other finance income	122	
	(Won) 607,592	(Won) 591,491

F-106

**Table of Contents**

(\*1) Gains on foreign currency translation and gains on foreign currency transaction are arising from financing activities.

(2) Interest income included in finance income for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	<b>2011</b>	<b>2010</b>
Cash and cash equivalents	(Won) 72,534	(Won) 63,518
Held-to-maturity investments	85	90
Loans and receivables	202,104	35,291
Accounts and other receivables	16,902	21,523
	<b>(Won) 291,625</b>	<b>(Won) 120,422</b>

39. **FINANCE EXPENSE**

(1) Finance expense for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	<b>2011</b>	<b>2010</b>
Interest expense	(Won) 2,123,579	(Won) 2,045,684
Loss on disposition of financial assets		227
Loss on valuation of derivatives	46,325	235,194
Loss on transaction of derivatives	80,369	87,336
Loss on foreign currency translation(*1)	230,441	100,118
Loss on foreign currency transaction(*1)	38,136	89,866
	<b>(Won) 2,518,850</b>	<b>(Won) 2,558,425</b>

(\*1) Loss on foreign currency translation and loss on foreign currency transaction are arising from financing activities.

(2) Interest expense included in finance expense for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	<b>2011</b>	<b>2010</b>
Accounts and other payables	(Won) 147,882	(Won) 268,120
Short-term borrowings	101,304	21,449
Long-term borrowings	201,252	150,902
Debentures	1,936,682	1,764,938
Exchangeable bonds	2,533	2,515
Other financial liabilities	307,272	274,187
	<b>2,696,925</b>	<b>2,482,111</b>
Capitalized borrowing costs	(573,346)	(436,427)

(Won) 2,123,579

(Won) 2,045,684

Capitalization rates for the years ended December 31, 2011 and 2010 are 3.67% to 5.30% and 3.28% to 5.36% respectively.

F-107

**Table of Contents**40. INCOME TAX EXPENSE

(1) Income tax expense for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	2011	2010
Current income tax expense		
Payment of income tax	(Won) 575,973	(Won) 393,983
Adjustment recognized in the period for current tax of prior period	(44,524)	(65,184)
Current income tax directly recognized in equity	35,799	18,600
Change in tax reserve for uncertain tax position	(6,226)	100
	561,022	347,499
Deferred income tax expense		
Generation and realization of temporary differences	(1,572,623)	(244,349)
Reclassified from equity to income		
Recognition of unrecognized tax losses in the past, tax credit and temporary differences prior to previous period	(231,528)	1,130
Changes in deferred tax on tax losses incurred in the period	1,020,378	316,722
Impairment of deferred tax assets	697,779	
Tax credit carry back	(3,525)	13,037
Changes in tax rates or tax laws	348,368	4,740
Changes in accounting policy that cannot be applied retroactively		
	258,849	91,280
Income tax expense	(Won) 819,871	(Won) 438,779

(2) Reconciliation between income tax expense and accounting income for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	2011	2010
Income before income tax expenses	(Won) (2,473,126)	(Won) 369,612
Income tax expense in accordance with applicable tax rate (tax rate: 24.2%)	(598,496)	89,446
Adjustments		
Additional payment of income taxes and income tax refunds	(36,544)	(74,412)
Effect of applying gradual tax rate	(101)	(123)
Effect of non-taxable revenue	(153,928)	(79,880)
Effect of nondeductible expenses	315,536	69,357
Effect of tax losses not recognized as deferred tax assets	697,779	
Effects of tax credits and deduction	(38,367)	(21,846)
Recognition of unrecognized tax losses in the past, tax credit, and temporary differences prior to previous period	(237,686)	13,314
Effect of changes in deferred tax according to changes in tax rates (From 22% to 24.2%, effective after Dec. 31, 2011)	320,244	12,794
Consolidated deferred income tax	567,134	505,065
Tax reserve for uncertain tax position	(6,915)	
Others	(8,785)	(74,936)

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

	(Won) 1,418,367	(Won) 349,333
Income tax expense recognized in income (loss) for the period	819,871	438,779
Mean effective tax rate		118.71%

F-108

**Table of Contents**

The corporate tax rates applied to taxable income in 2011 and 2010 are 24.2%, 22%, respectively which is applied in Republic of Korea in which the parent company is located.

- (3) Deferred income tax directly adjusted to shareholders' equity (except accumulated other comprehensive income) for the years ended December 31, 2011 and 2010 are as follows.

	2011	2010
Deferred income tax	(Won) (22,143)	(Won) (31,263)
Gains on disposition of subsidiary	(22,143)	(31,263)
	(Won) (22,143)	(Won) (31,263)

- (4) Income tax recognized as cumulative other comprehensive income for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	2011	2010
Income tax recognized as cumulative other comprehensive income		
Gains(Loss) on valuation of available-for-sale financial assets	(Won) 3,369	(Won) 8,335
Gain(Loss) on valuation of derivatives using cash flow hedge accounting	137	23,278
Actuarial losses on retirement benefit obligations	66,873	24,208
Investment of associates	(12,763)	(5,958)
Others	326	
	(Won) 57,942	(Won) 49,863

**Table of Contents**

- (5) Changes in deferred income tax assets(liabilities) recognized in the statements of financial position as of December 31, 2011 and 2010 are as follows (KRW in millions):

	2011							Ending Balance
	Beginning balance	Amounts recognized in income(loss) for the period	Amounts recognized in cumulative other comprehensive income	Amounts recognized directly in equity	Reclassified from equity to income(loss) for the period	Disposition	Others	
Deferred income tax on temporary differences								
Long term								
Employee benefits	(Won) 336,321	(Won) 48,005	(Won) 66,873	(Won)	(Won)	(Won) (2,145)	(Won) 4,030	(Won) 453,084
Cash flow hedge	(79,511)	7,915	137					(71,459)
Investment in associates or subsidiaries	(4,519,001)	(587,283)	(12,763)	(22,143)				(5,141,190)
Property, plant and equipment, net	(4,799,034)	(141,587)				622	(424)	(4,940,423)
Finance lease	(170,075)	43,290				(5)	(90)	(126,880)
Intangible assets	30,247	2,145					157	32,549
Financial assets at fair value through profit or loss	26,302	694						26,996
Available-for-sale financial assets	(110,749)	(12,211)	3,369					(119,591)
Deferred revenue	32,562	13,976						46,538
Provisions	1,437,030	306,827					(962)	1,742,895
Doubtful receivables	54	(45)						9
Other finance liabilities	2,701	4,556				(191)		7,066
Others								
Gains(loss) on foreign exchange translation	118,189	(21,111)						97,078
Allowance for bad debts	(1,401)	(245)						(1,646)
Accrued income	(1,831)	(323)						(2,154)
Special deduction	(177,527)	(17,081)				48	(88)	(194,648)
Reserve for research And human development	(35,158)	1,631				89	(125)	(33,563)
Reserve for investment on social overhead capital	(12,348)	12,348				117	(117)	
Others	203,479	83,511	326				(916)	286,400
	(7,719,750)	(254,988)	57,942	(22,143)		(1,465)	1,465	(7,938,939)
Deferred income tax on unused tax losses and tax credit								
Tax losses	1,546,395	(56,592)						1,489,803
Tax credit	17,903	14,577						32,480
Others		2,355						2,355

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

1,564,298

(39,661)

1,524,638

(Won) (6,155,452) (Won) (294,648) (Won) 57,942 (Won) (22,143) (Won) (Won) (1,465) (Won) 1,465 (Won) (6,414,301)

F-110



**Table of Contents**

	2010									
	Beginning balance	Amounts recognized in income(loss) for the period	Amounts recognized in cumulative other comprehensive income	Amounts Recognized directly in equity	Reclassified from equity to income(loss) for the period	Disposition	Others	Ending Balance		
Deferred income tax on temporary differences										
Long term Employee benefits	(Won) 305,124	(Won) 6,989	(Won) 24,208	(Won)	(Won)	(Won)	(Won)	(Won)	(Won)	336,321
Cash flow hedge	(188,537)	85,748	23,278							(79,511)
Investment in associates or subsidiaries	(4,251,193)	(230,587)	(5,958)	(31,263)						(4,519,001)
Property, plant and equipment, net	(4,913,627)	114,593								(4,799,034)
Finance lease	(100,508)	(69,567)								(170,075)
Intangible assets	7,426	22,821								30,247
Financial assets at fair value through profit or loss	2,598	23,704								26,302
Available-for-sale financial assets	(5,787)	(113,297)	8,335							(110,749)
Deferred revenue	26,489	6,073								32,562
Provisions	1,363,117	73,913								1,437,030
Doubtful receivables	717	(663)								54
Other finance liabilities	7,887	(5,186)								2,701
Others										
Gains(loss) on foreign exchange translation	210,854	(92,665)								118,189
Allowance for bad debts	(1,759)	358								(1,401)
Accrued income	(1,629)	(202)								(1,831)
Special deduction	(180,666)	3,139								(177,527)
Reserve for research and human development	(38,884)	3,726								(35,158)
Reserve for Investment on social overhead capital	(36,973)	24,625								(12,348)
Others	98,427	105,052								203,479
	(7,696,924)	(41,426)	49,863	(31,263)						(7,719,750)
Deferred income tax on unused tax losses and tax credit										
Tax losses	1,609,365	(62,970)								1,546,395
Tax credit	23,387	(5,484)								17,903
Others										
	1,632,752	(68,454)								1,564,298
	(Won) (6,064,172)	(Won) (109,880)	(Won) 49,863	(Won) (31,263)	(Won)	(Won)	(Won)	(Won)	(Won)	(6,155,452)

**Table of Contents**

- (6) Deferred income tax assets (liabilities) recognized in the statements of financial position as of December 31, 2011 and 2010 are as follows (KRW in millions):

	<b>2011</b>	<b>2010</b>
Deferred income tax assets	(Won) 372,478	(Won) 151,870
Deferred income tax liabilities	(6,786,779)	(6,307,322)
	(Won) (6,414,301)	(Won) (6,155,452)

- (7) Composition of deductible temporary differences, tax losses and unused tax credits not recognized in the deferred income tax assets (liabilities) as of December 31, 2011 and 2010 are as follows (KRW in millions):

	<b>2011</b>	<b>2010</b>
Deductible temporary differences	(Won) 300,517	(Won) 300,517
Tax losses	2,883,384	
	(Won) 3,183,901	(Won) 300,517

- (8) Expire dates of deductible temporary differences, tax losses and unused tax credits not recognized in the deferred income tax assets (liabilities) as of December 31, 2011 are as follows (KRW in millions):

	<b>2011</b>		<b>2010</b>	
	<b>Tax losses</b>	<b>Tax credits Carryback</b>	<b>Tax losses</b>	<b>Tax credits Carryback</b>
Less than 1 year	(Won)	(Won)	(Won)	(Won)
1~ 2 years	2,883,384			
2~ 3 years				
More than 3 years	300,517		300,517	
	(Won) 3,183,901	(Won)	(Won) 300,517	(Won)

- (9) As of December 31, 2011, there are no taxable temporary differences which are not recognized as deferred income tax liabilities regarding investments in subsidiaries, affiliates and joint ventures except partial temporary differences concerning dividends as of December 31, 2011.

#### 41. OPERATING INCOME (LOSS)

- (1) Major components of operating income (loss).

Operating income (loss) is calculated from gross profit (loss) with adjustments of other operating income, selling and administrative expenses, other operating expenses and other income (loss).



**Table of Contents**

## (2) Differences in operating income (loss) between IFRS and Korean GAAP

Components classified as operating income (loss) under IFRS but classified as non-operating income (loss) under Korean GAAP in the past for period for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	2011	2010
	(Won)	(Won)
Reversal of other provisions	110	14,754
Reversal of allowance for doubtful accounts	460	6,951
Gains on assets contributed	4,392	1,390
Gains from liabilities exempted	4,578	5,679
Compensation and reparations revenue	30,350	12,501
Electricity infrastructure development fund	48,154	41,189
Revenue from research contracts	6,124	542
Rental income	180,563	168,386
Others (other income)	43,114	28,018
Compensation and reparations expense	(2,000)	
Transfer to other provisions	(238)	(22,004)
Depreciation expenses on investment properties	(927)	(1,129)
Depreciation expenses on assets not in use	(6,619)	(6,723)
Other bad debt expense	(867)	(471)
Donations	(100,352)	(30,874)
Others (other expenses)	(36,592)	(8,586)
Gains on disposition of property, plant and equipment	38,776	42,037
Gains on disposition of intangible assets		
Reversal of impairment loss on intangible assets		16
Gains on foreign currency translation (related to operating activities)	1,659	4,634
Gains on foreign currency transaction (related to operating activities)	100,811	90,452
Insurance proceeds		34
Others (other income)	213,624	219,110
Loss on disposition of property, plant and equipment	(31,228)	(46,882)
Loss on disposition of intangible assets	(5)	(12)
Loss on impairment of property, plant and equipment		(26,648)
Loss on impairment of intangible assets	(221)	(450)
Loss on foreign currency translation (related to operating activities)	(5,402)	(3,603)
Loss on foreign currency transaction (related to operating activities)	(98,806)	(97,210)
Others	(53,505)	(63,271)

Gains (losses) on foreign currency transactions and translations are considered as non-operating income (loss) from financing activities under both Korean GAAP and IFRS.

**Table of Contents**42. **EXPENSES CLASSIFIED BY NATURE:**

Expenses classified by nature for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

<b>Type</b>	<b>2011</b>		
	<b>Selling and administrative expenses</b>	<b>Cost of sales</b>	<b>Total</b>
Raw materials used	(Won)	(Won) 21,220,052	(Won) 21,220,052
Salaries	537,137	2,510,370	3,047,507
Retirement benefit expense	66,955	308,629	375,584
Welfare and benefit expense	104,588	371,475	476,063
Insurance expense	3,066	42,847	45,913
Depreciation	41,900	6,733,215	6,775,115
Amortization of intangible assets	53,525	41,204	94,729
Bad debt expense	14,269		14,270
Commission	509,846	307,861	817,707
Advertising expense	21,918	6,046	27,964
Training expense	5,125	7,889	13,014
Vehicle maintenance expense	11,690	6,604	18,294
Publishing expense	2,858	5,070	7,928
Business promotion expense	3,171	4,213	7,384
Rent expense	26,550	80,454	107,004
Telecommunication expense	23,722	74,426	98,148
Transportation expense	226	3,791	4,017
Taxes and dues	64,707	183,636	248,343
Expendable supplies expense	3,720	22,506	26,226
Water, light and heating expense	8,683	15,509	24,192
Repairs and maintenance expense	12,232	1,415,673	1,427,905
Ordinary development expense	134,929	388,990	523,919
Travel expense	11,019	33,567	44,586
Clothing expense	2,356	6,735	9,091
Survey and analysis expense	769	3,004	3,773
Membership fee	609	3,936	4,545
Power purchase and others	86,127	9,284,277	9,370,403
	(Won) 1,751,697	(Won) 43,081,979	(Won) 44,833,676

**Table of Contents**

Type	2010		
	Selling and administrative expenses (Won)	Cost of sales (Won)	Total (Won)
Raw materials used		18,065,042	18,065,042
Salaries	532,502	2,506,211	3,038,713
Retirement benefit expense	62,482	297,982	360,464
Welfare and benefit expense	91,731	340,011	431,742
Insurance expense	2,310	39,560	41,870
Depreciation	31,560	6,539,808	6,571,368
Amortization of intangible assets	42,448	74,996	117,444
Bad debt expense	13,098		13,098
Commission	499,728	349,862	849,590
Advertising expense	22,371	6,230	28,601
Training expense	3,994	7,566	11,560
Vehicle maintenance expense	10,276	6,015	16,291
Publishing expense	2,591	4,232	6,823
Business promotion expense	3,198	3,822	7,020
Rent expense	27,429	76,934	104,363
Telecommunication expense	24,627	69,553	94,180
Transportation expense	351	4,586	4,937
Taxes and dues	56,268	177,609	233,877
Expendable supplies expense	3,600	20,886	24,486
Water, light and heating expense	8,797	27,198	35,995
Repairs and maintenance expense	9,659	1,335,445	1,345,104
Ordinary development expense	118,767	329,986	448,753
Travel expense	9,350	31,817	41,167
Clothing expense	2,242	6,920	9,162
Survey and analysis expense	722	3,338	4,060
Membership fee	523	3,089	3,612
Power purchase and others	64,136	5,858,539	5,922,675
	(Won) 1,644,760	(Won) 36,187,237	(Won) 37,831,997

43. **EARNINGS (LOSS) PER SHARE:**

(1) Basic earnings(loss) per share for the years ended December 31, 2011 and 2010 are as follows:

Type	2011	2010
Basic earnings (loss) per share	(Won) (5,411)	(Won) (193)

(2) Diluted earnings(loss) per share for the years ended December 31, 2011 and 2010 are as follows:

Type	2011	2010
Diluted earnings (loss) per share	(Won) (5,411)	(Won) (193)

**Table of Contents**

## (3) Basic earnings (loss) per share

Net income and weighted average number of common shares used in the calculation of basic earnings(loss) per share for the years ended December 31, 2011 and 2010 are as follows (KRW in millions except number of shares):

Type	2011	2010
Controlling interest in net income (loss)	(Won) (3,370,464)	(Won) (119,931)
Earning used in the calculation of total basic earnings(loss) per share	(3,370,464)	(119,931)
Weighted average number of common shares	622,884,223	622,637,717

## (4) Diluted earnings (loss) per share

Diluted earnings (loss) per share is calculated by applying adjusted weighted average number of common shares under the assumption that all dilutive potential common shares are converted to common shares.

Earnings used in the calculation of total diluted earnings per share for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

Type	2011	2010
Earning used in the calculation of total diluted earnings (loss) per share	(Won) (3,370,464)	(Won) (119,931)

Weighted average common shares used in calculating diluted earnings (loss) per share are adjusted from weighted average common shares used in calculating basic earnings (loss) per share. Detail information of the adjustment for the years ended December 31, 2011 and 2010 is as follows. (KRW in millions):

Type	Dec. 31, 2011	Dec. 31, 2010
Weighted average number of common shares	622,884,223	622,637,717
Diluted weighted average number of shares	622,884,223	622,637,717

Potential common shares below have no dilutive effect. The shares excluded from calculation in diluted earnings (loss) per share for the years ended December 31, 2011 and 2010 are as follows:

Type	Dec. 31, 2011	Dec. 31, 2010
Foreign exchangeable bonds 2nd		919,908

44. **RISK MANAGEMENT:**

## (1) Capital risk management

The Company manages its capital to ensure that entities in the Company will be able to continue while maximizing the return to shareholder through the optimization of the debt and equity balance. The capital structure of the Company consists of net debt (offset by cash and cash equivalents) and equity. The Company's overall capital risk management strategy remains unchanged from that of the prior year.

Details of the Company's capital management accounts as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

	<b>Dec. 31, 2011</b>	<b>Dec. 31, 2010</b>	<b>Jan. 1, 2010</b>
Total borrowings	(Won) 46,204,543	(Won) 39,617,034	(Won) 34,219,117
Cash and cash equivalents	1,387,921	2,090,051	1,475,684
Net borrowings and debentures	44,816,622	37,526,983	32,743,433
Total shareholder s equity	53,803,950	57,276,537	57,287,338
Debt to equity ratio	83.30%	65.52%	57.16%

F-116



**Table of Contents**

## (2) Financial risk management

The Company is exposed to various risks related to its financial instruments, such as, market risk (currency risk, interest rate risk, price risk), credit risk. The Company monitors and manages the financial risks relating to the operations of the Company through internal risk reports which analyse exposures by degree and magnitude of risks. The Company uses derivative financial instruments to certain hedge risk exposures. The Company's overall financial risk management strategy remains unchanged from the prior year.

## 1) Credit risk

Credit risk is the risk of finance loss to the Company if a customer or counterparty to a financial instrument fails to meet its contractual obligations, and arises primarily from the Company's loan, card assets and securities. In addition, credit risk exposure may exist within financial guarantees and unused line of credits. As these financial institutions the Company makes transactions with are reputable financial institutions, the credit risk from them are considered limited. The Company decides credit transaction limits based on evaluation of client's credit, through information obtained from the credit bureau and disclosed financial position at committing contracts.

## i) Credit risk management

Electricity sales, the main operations of the Company are the necessity for daily life and industrial activities of Korean nationals, and have importance as one of the national key industries. The Company dominates the domestic market supplying electricity to 20 million customers (20,050,000). The company is not exposed to credit risk as customers of the Company are from various industries and areas. The Company uses publicly available information and its own internal data related to accounts receivables, to rate its major customers and to measure the credit risk that a counter party will default on a contractual obligation. For the incurred but not recognized loss, it is measured considering overdue period.

## ii) Impairment &amp; allowance account

In accordance with the Company policies, individual material financial assets are assessed on a regular basis, trade receivables that are assessed not to be impaired individually are, in addition, assessed for impairment on a collective basis. Value of the acquired collateral (including the confirmation of feasibility) and estimated collectable amounts are included in this assessment.

Allowance for bad debts assessed on a collective basis are recognized for (i) the group of assets which individually are not material and (ii) incurred but not recognized losses that are assessed using statistical methods, judgment and historical experience.

Book values of the financial assets represent the maximum exposed amounts of the credit risk. Details of the Company's level of maximum exposure to credit risk as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

Type	Dec. 31, 2011	Dec. 31, 2010	Jan. 1, 2010
Cash and cash equivalents	(Won) 1,387,921	(Won) 2,090,051	(Won) 1,475,684
Derivative assets (trading)	147,748	128,847	214,382
Available-for-sale financial assets	1,173,085	1,343,204	735,195
Held-to-maturity investments	2,320	2,651	2,771
Loans and receivables	793,025	789,405	585,186
Long-term/Short-term financial instruments	531,722	579,328	366,611
Derivative assets (using hedge accounting)	321,671	337,419	665,715
Accounts and other receivables	8,917,029	7,458,695	7,008,672
Financial guarantee contracts(*1)	321,637		

**Table of Contents**

(\*1) Maximum exposure associated with the financial guarantee contracts is the maximum amounts of the obligation. Financial guarantee contracts as of December 31, 2011 and 2010 are as follows (KRW in millions):

Type	Company	Foreign currency	Amounts
Joint ventures	Kepeco SPC Power Co.	USD	220,590
Others	UAE Shuweihat S3	USD	58,294

2) Market risk

Market risk is the risk that the Company's fair value of the financial instruments or future cashflows are affected by the changes in the market. Market risk consists of interest rate risk, currency risk and other price risk.

3) Sensitivity analysis

i) Major Assets and Liabilities with Uncertainties in Underlying Assumptions

Defined benefit obligation

The following is a sensitivity analysis of defined benefit obligation assuming a 1% increase and decrease movements in the actuarial valuation assumptions as of December 31, 2011 and 2010 are as follows (KRW in millions):

Type	Accounts	2011		1%		2010	
		Increase	Decrease	Increase	Decrease		
Future salary increases	Defined benefit obligation	(Won) 302,743	(Won) (262,861)	(Won) 289,602	(Won) (252,886)		
Discount rate	Defined benefit obligation	(270,109)	322,332	(258,197)	277,224		
Expected rate of return on plan assets	Post-employment benefits	(4,474)	4,474	(4,679)	4,679		

Provision

Changes in provisions due to movements in underlying assumptions as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

Type	Accounts	Dec. 31, 2011	Dec. 31, 2010	Jan. 1, 2010
Discount rate	PCBs	5.84%	6.49%	6.49%
	Nuclear plants	4.36%	4.36%	4.36%
	Spent fuel	4.36%	4.36%	4.36%
Inflation rate	PCBs	3.34%	2.81%	3.08%
	Nuclear plants	2.30%	2.30%	2.30%
	Spent fuel	2.30%	2.30%	2.30%



**Table of Contents**

The following is a sensitivity analysis of provisions assuming a 0.1% increase and decrease movements in the underlying assumptions as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

TYPE	Accounts	Dec. 31, 2011		Dec. 31, 2010 0.1%		Jan. 1, 2010	
		Increase	Decrease	Increase	Decrease	Increase	Decrease
Discount rate	PCBs	(Won) (1,291)	(Won) 1,302	(Won) (760)	(Won) 764	(Won) (733)	(Won) 737
	Nuclear plants	(111,132)	114,140	(104,473)	107,275	(104,320)	107,208
	Spent fuel	(21,386)	21,946	(21,297)	21,876	(19,663)	20,217
Inflation rate	PCBs	1,332	(1,323)	790	(788)	761	(758)
	Nuclear plants	150,939	(146,083)	136,532	(132,273)	130,828	(126,747)
	Spent fuel	29,371	(28,439)	28,179	(27,284)	25,100	(24,303)

## ii) Management Judgment Effected by Uncertainties in Underlying Assumptions

## Foreign currency risk

The Company undertakes transactions denominated in foreign currencies; consequently, exposures to exchange rate fluctuations arise. The carrying amounts of the Company's foreign currency denominated monetary assets and monetary liabilities at the end of the reporting period are as follows (USD, EUR, GBP, Other foreign currency in thousands):

Type	Assets		Liabilities	
	2011	2010	2011	2010
AUD	1,140	87	156,196	160,984
CAD	164		18	708
CNY	1			
EUR	8,076	683	1,441	21,512
IDR	1,074,528	163,498		
PHP				
SAR	232,281	246,125	21,073	17,205
USD	1,037			
INR	374,193	342,325	9,459,038	8,721,523
PKR	282,510	315,165	68,966	55,487
MGA	25,475	22,748	4,503	1,704
JPY	2,223,307	768,894		
KZT	520	520	30,012,000	46,185,435
GBP	722,691			
CHF			160	59
AED				1,042
SEK	247		1,383	

A sensitivity analysis on the Company's income for the period assuming a 10% increase and decrease in currency exchange rates as of December 31, 2011, 2010 and January 1, 2010 are as follows (KRW in millions):

TYPE	2011		2010	
	Increase	Decrease	Increase	Decrease
	(Won)(1,107,751)	(Won)1,107,751	(Won)(1,055,889)	(Won)1,055,889

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Increase(Decrease) of income before income tax				
Increase(Decrease) of shareholder s equity	(1,107,751)	1,107,751	(1,055,889)	1,055,889

F-119

**Table of Contents**

Sensitivity analysis above is conducted for monetary assets and liabilities denominated in foreign currencies other than functional currency as of December 31, 2011, December 31, 2010 and January 1, 2010.

To manage its foreign currency risk related to foreign currency denominated receivables and payables, the Company has a policy to enter into currency forward agreements. In addition, to manage its foreign currency risk related to foreign currency denominated expected sales transactions and purchase transactions, the Company enters into cross-currency swap agreements.

**Interest rate risk**

The Company is exposed to interest rate risk due to its borrowing with floating interest rates. A 1% increase or decrease is used when reporting interest rate risk internally to key management personnel and represents management's assessment of the reasonably possible change in interest rates.

The Company's long-term borrowings and debentures with floating interest rates as of December 31, 2011 and are as follows (KRW in millions):

Type	2011	2010
Short-term borrowings	(Won) 100,000	(Won)
Long-term borrowings	5,402,164	4,018,679
Debentures	1,609,481	1,878,562
	(Won) 7,111,645	(Won) 5,897,241

A sensitivity analysis on the Company's long-term borrowings and debentures assuming a 1% increase and decrease in interest rates as of December 31, 2011 and 2010 are as follows (KRW in millions):

Type	2011		2010	
	Increase	Decrease	Increase	Decrease
Increase (Decrease) of net income	(Won)(71,116)	(Won)71,116	(Won)(58,972)	(Won)58,972
Increase (Decrease) of shareholder's equity	(71,116)	71,116	(58,972)	58,972

To manage its interest rate risks, the Company in addition to maintaining an appropriate mix of fixed and floating rate loans, it has entered into certain interest rate swap agreements.

**Electricity rates risk**

The Company is exposed to electricity rates risk due to the rate regulation of the government which considers the effect of electricity rate on the national economy.

A sensitivity analysis on the Company's income for the period assuming a 1% increase and decrease in price of electricity as of December 31, 2011 and 2010 are as follows (KRW in millions):

Type	2011		2010	
	Increase	Decrease	Increase	Decrease
Increase (Decrease) of income before income tax	(Won) 309,719	(Won)(309,719)	(Won)290,178	(Won)(290,178)
Increase (Decrease) of shareholder's equity	309,719	(309,719)	290,178	(290,178)



**Table of Contents**

## 4) Liquidity risk

The Company has established an appropriate liquidity risk management framework for the management of the Company's short, medium and long-term funding and liquidity management requirements. The Company manages liquidity risk by maintaining adequate reserves, banking facilities and reserve borrowing facilities, by continuously monitoring forecast and actual cash flows, and by matching the maturity profiles of financial assets and liabilities.

In addition, the Company has established credit lines on its trade financing and bank overdrafts, and through payment guarantees it has received, it maintains an adequate credit (borrowing) line. In addition, in case of major construction investment, the Company has the ability to use reserve cash or utilize long-term borrowings.

The following table shows the details of remaining expiries for non-derivative financial liabilities. This table, based on undiscounted cash flow of the financial liabilities, has been completed based on the earliest maturity date for the Company. Contractually remaining expiries for non-derivative financial liabilities as of December 31, 2011 are as follows (KRW in millions):

Type	Dec. 31, 2011				Total
	Less than 1 year	1~2 Years	2~5 Years	More than 5 years	
Borrowings and debentures	(Won) 7,009,279	(Won) 7,118,819	(Won) 18,540,565	(Won) 13,634,914	(Won) 46,303,577
Finance lease liabilities	239,007	221,381	569,190	731,788	1,761,366
Accounts and other payables	6,449,572	259,999	2,893,631	16,885	9,620,087
Financial guarantee contract	26,780	26,780	147,569	120,508	321,637
	(Won) 13,724,638	(Won) 7,626,979	(Won) 22,150,955	(Won) 14,504,095	(Won) 58,006,667

Type	Dec. 31, 2010				Total
	Less than 1 year	1~2 Years	2~5 Years	More than 5 years	
Borrowings and debentures	(Won) 6,773,598	(Won) 6,508,671	(Won) 17,791,526	(Won) 8,633,096	(Won) 39,706,891
Finance lease liabilities	247,393	239,008	608,499	913,860	2,008,760
Accounts and other payables	4,447,778	250,824	3,890,693	4,101	8,593,396
	(Won) 11,468,769	(Won) 6,998,503	(Won) 22,290,718	(Won) 9,551,057	(Won) 50,309,047

Type	Jan. 1, 2010				Total
	Less than 1 year	1~2 Years	2~5 Years	More than 5 years	
Borrowings and debentures	(Won) 6,223,291	(Won) 5,568,030	(Won) 16,254,946	(Won) 6,273,385	(Won) 34,319,652
Finance lease liabilities	253,609	247,394	662,697	1,098,669	2,262,369
Accounts and other payables	4,533,422	229,043	3,754,633	2,888	8,519,986
	(Won) 11,010,322	(Won) 6,044,467	(Won) 20,672,276	(Won) 7,374,942	(Won) 45,102,007



## Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

The Company is required to include the information on non-derivative financial liabilities to understand the liquidity risk management as the management is based on net assets and net liabilities.

F-121

**Table of Contents**

The expected maturities for non-derivative financial assets as of December 31, 2011, December 31, 2010 and January 1, 2010 in detail are as follows (KRW in millions):

Type	Dec. 31, 2011				Total
	Less than 1 year	1-5 Years	More than 5 years	Other(*)	
Cash and cash equivalents	(Won) 1,387,921	(Won)	(Won)	(Won)	(Won) 1,387,921
Available-for-sale financial assets				1,173,085	1,173,085
Held-to-maturity investments	334	1,143	842		2,319
Loans and receivables	216,635	650,188	849		867,672
Financial instruments	531,389	334			531,723
Accounts and other receivables	7,635,161	957,250	334,938		8,927,349
	(Won) 9,771,440	(Won) 1,608,915	(Won) 336,629	(Won) 1,173,085	(Won) 12,890,069

Type	Dec. 31, 2010				Total
	Less than 1 year	1-5 Years	More than 5 years	Other(*)	
Cash and cash equivalents	(Won) 2,090,051	(Won)	(Won)	(Won)	(Won) 2,090,051
Available-for-sale financial assets				1,343,204	1,343,204
Held-to-maturity investments	509	1,645	497		2,651
Loans and receivables	47,457	179,419	638,459		865,335
Financial instruments	571,310	8,017			579,327
Accounts and other receivables	6,613,250	852,003			7,465,253
	(Won) 9,322,577	(Won) 1,041,084	(Won) 638,956	(Won) 1,343,204	(Won) 12,345,821

Type	Jan. 1, 2010				Total
	Less than 1 year	1-5 Years	More than 5 years	Other(*)	
Cash and cash equivalents	(Won) 1,475,684	(Won)	(Won)	(Won)	(Won) 1,475,684
Available-for-sale financial assets				735,195	735,195
Held-to-maturity investments	440	1,481	850		2,771
Loans and receivables	70,412	251,632	338,664		660,708
Financial instruments	366,137	474			366,611
Accounts and other receivables	5,983,358	1,027,375			7,010,733
	(Won) 7,896,031	(Won) 1,280,962	(Won) 339,514	(Won) 735,195	(Won) 10,251,702

(\*) Amount represents available-for-sale securities whose maturities cannot be presently determined.



**Table of Contents**

Derivative financial liabilities classified by maturity periods which from reporting date to maturity date of contract as of December 31, 2011 are as follows (KRW in millions):

Type	Dec. 31, 2011					Total
	Less than 1 Year	1~2 Years	2~5 Years	More than 5 Year		
Net settlement						
Trading	(Won) (487)	(Won) (263)	(Won)	(Won)	(Won) (750)	
Gross settlement						
Trading	(37,909)	(4,221)	(89,607)		(131,737)	
Hedging	(4,002)	1,286	(22,268)	(67,473)	(92,457)	
	(Won)(42,398)	(Won) (3,198)	(Won) (111,875)	(Won) (67,473)	(Won) (224,944)	

Type	Dec. 31, 2010					Total
	Less than 1 Year	1~2 Years	2~5 Years	More than 5 Year		
Net settlement						
Trading	(Won) (595)	(Won) (9)	(Won) 67	(Won)	(Won) (537)	
Gross settlement						
Trading	(42,602)	(26,894)	(102,877)		(172,373)	
Hedging	(8,206)	(3,422)	(24,786)	(8,991)	(45,405)	
	(Won) (51,403)	(Won) (30,325)	(Won) (127,596)	(Won) (8,991)	(Won) (218,315)	

Type	Jan. 1, 2010					Total
	Less than 1 Year	1~2 Years	2~5 Years	More than 5 Year		
Net settlement						
Trading	(Won)	(Won)	(Won)	(Won)	(Won)	
Gross settlement						
Trading	(8,529)	(586)	(11,993)		(21,108)	
Hedging			(17,758)	(1,103)	(18,861)	
	(Won) (8,529)	(Won) (586)	(Won) (29,751)	(Won) (1,103)	(Won) (39,969)	

## (3) Fair value risk

The fair value of the Company's actively-traded financial instruments (i.e. financial assets AFS, etc.) is based on the traded market-price as of the reporting period end. The fair value of the Company's financial assets is the amount which the asset could be exchanged for or the amount a liability could be settled for.

The fair values of financial instruments where no active market exists or where quoted prices are not otherwise available are determined by using valuation techniques. Valuation techniques include using recent arm's length market transactions between knowledgeable, willing parties, if available, reference to the current fair value of another instrument that is substantially the same, discounted cash flow analysis and option pricing models. If there is a valuation technique commonly used by market participants to price the instrument and that technique has been demonstrated to provide reliable estimates of prices obtained in actual market transactions, the Company uses that technique.

## Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

For accounts receivables and payables, the Company considers the carrying value net of impairment as fair value. While for disclosure purposes, the fair value of financial liabilities is estimated by discounting a financial instruments with similar contractual cashflows based on the effective interest method.

F-123

**Table of Contents**

- 1) Fair and book value of financial assets and liabilities as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows (KRW in millions):

Type	Dec. 31, 2011		Dec. 31, 2010		Jan. 1, 2010	
	Book value	Fair value	Book value	Fair value	Book value	Fair value
<b>Assets recognized at fair value</b>						
Available-for-sale financial assets	(Won) 1,173,085	(Won) 1,173,085	(Won) 1,343,204	(Won) 1,343,204	(Won) 735,195	(Won) 735,195
Divatives assets (trading)	147,748	147,748	128,847	128,847	214,382	214,382
Derivatives assets (using hedge accounting)	321,671	321,671	337,419	337,419	665,715	665,715
Long-term financial instruments	334	334	8,017	8,017	474	474
Short-term financial instruments	531,388	531,388	571,310	571,310	366,137	366,137
	2,174,226	2,174,226	2,388,797	2,388,797	1,981,903	1,981,903
<b>Assets carried at amortized cost</b>						
Held-to-maturity investments	2,320	2,320	2,651	2,651	2,771	2,771
Loans and receivables	793,025	793,025	789,405	789,405	585,186	585,186
Accounts and other receivables	8,917,029	8,917,029	7,458,695	7,458,695	7,008,672	7,008,672
Cash and cash equivalents	1,387,921	1,387,921	2,090,051	2,090,051	1,475,684	1,475,684
	11,100,295	11,100,295	10,340,802	10,340,802	9,072,313	9,072,313
<b>Liabilities recognized at fair value</b>						
Derivatives liabilities (trading)	129,969	129,969	172,733	172,733	21,108	21,108
Derivatives Liabilities (using hedge accounting)	94,975	94,975	45,582	45,582	18,863	18,863
	224,944	224,944	218,315	218,315	39,971	39,971
<b>Liabilities carried at amortized cost</b>						
Unsecured bond	39,461,634	40,770,061	34,982,349	35,847,029	29,281,450	29,818,264
Finance lease liabilities	1,135,009	1,135,009	1,259,202	1,259,202	1,376,652	1,376,652
Unsecured borrowings	6,736,114	6,745,198	4,634,686	4,685,113	4,937,670	4,924,487

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Accounts and other payables	9,619,286	9,619,286	8,592,867	8,592,867	8,035,066	8,035,066
Commitments on Bank-overdraft	6,795	6,795				
	(Won) 56,958,838	(Won) 58,276,349	(Won) 49,469,104	(Won) 50,384,211	(Won) 43,630,838	(Won) 44,154,469

F-124

**Table of Contents**

- 2) The discount rate used for calculating fair value is derived from interest rates which are observable from the market, such as Government Bond interest rate, after considering its credit spread.
  
- 3) Fair value hierarchy

The following table provides an analysis of financial instruments that are measured subsequent to initial recognition at fair value, classified as Level 1, 2, or 3, based on the degree to which the fair value is observable.

Level 1: Unadjusted quoted prices in active markets for identical assets or liabilities;

Level 2: Inputs other than quoted prices that are observable for the asset or liability either directly or indirectly; and

Level 3: Inputs that are not based on observable market data.

Fair values of financial instruments by hierarchy level as of December 31, 2011, December 31, 2010 and January 01, 2010 are as follows (KRW in millions):

Type	Dec. 31, 2011			Total
	Level 1	Level 2	Level 3	
Financial assets at fair value:				
Available-for-sale financial assets	(Won) 640,593	(Won)	(Won) 532,492	(Won) 1,173,085
Other financial instruments		10,121		10,121
Derivatives assets		469,419		469,419
Financial liabilities at fair value:				
Derivatives liabilities		217,165	7,779	224,944

Type	Dec. 31, 2010			Total
	Level 1	Level 2	Level 3	
Financial assets at fair value:				
Available-for-sale financial assets	(Won) 864,963	(Won)	(Won) 478,241	(Won) 1,343,204
Other financial instruments				
Derivatives assets		466,266		466,266
Financial liabilities at fair value:				
Derivatives liabilities		218,315		218,315

Type	Jan. 1, 2010			Total
	Level 1	Level 2	Level 3	
Financial assets at fair value:				
Available-for-sale financial assets	(Won) 206,180	(Won)	(Won) 529,015	(Won) 735,195
Other financial instruments		15,022		15,022
Derivatives assets		880,097		880,097
Financial liabilities at fair value:				
Derivatives liabilities		39,971		39,971



**Table of Contents**

Changes of financial assets and liabilities which are classified as level 3 for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

	Financial assets measured at fair value	Financial liabilities measured at fair value
Balance at Jan. 1, 2010	(Won) 529,015	(Won)
Total comprehensive income		
Recognized in income(loss)		
Recognized in other comprehensive income	(33,993)	
Addition	10,562	
Disposal		
Others	(27,343)	
Balance at December 31, 2010	(Won) 478,241	(Won)
	Financial assets measured at fair value	Financial liabilities measured at fair value
Balance at Jan. 1, 2011	(Won) 478,241	(Won)
Total comprehensive income		
Recognized in income(loss)		7,779
Recognized in other comprehensive income	43,299	
Addition	17,057	
Disposal	(2,800)	
Others	(3,305)	
Balance at December 31, 2011	(Won) 532,492	(Won) 7,779

45. SERVICE CONCESSION ARRANGEMENTS:

(1) Significant terms & concession period of the arrangement

The Company enters into a contract with National Power Corporation (the NPC), based on the Republic of the Philippines whereby the Company can collect the electricity rates which are composed of fixed costs and variable costs during the certain concession period after building, rehabilitating, operating the power plant.

(2) Rights & classification of the arrangement

The Company has the rights to use, own the power plant during the concession period from 2002 to 2022.

(3) At the end of concession period, the company has obligation to transfer its ownership of power plant to NPC.

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

- (4) The Company's expected future collections of service concession arrangements as of December 31, 2011 are as follows (KRW in millions):

Type	Amounts
Less than 1 year	(Won) 115,747
1~ 2 years	115,747
2~ 3 years	115,747
More than 3 years	858,455
	(Won) 1,205,696

F-126

**Table of Contents****46. RELATED PARTY TRANSACTIONS:**

(1) Related party of consolidated entity as of December, 31, 2011 are as follows:

<b>Type</b>	<b>Related party</b>
Parent	Korean Government
Subsidiaries	Korea Hydro & Nuclear Power Co., Ltd.
	Korea South-East Power Co., Ltd.
	Korea Midland Power Co., Ltd.
	Korea Western Power Co., Ltd.
	Korea Southern Power Co., Ltd.
	Korea East-West Power Co., Ltd.
	KEPCO Engineering & Construction Company, Inc.
	Korea Plant Service & Engineering Co., Ltd.
	Korea Nuclear Fuel Co., Ltd.
	Korea Electric Power Data Network Co., Ltd.
	KEPCO International Hong Kong Ltd.
	KEPCO International Philippines Inc.
	KEPCO Gansu International Ltd.
	KEPCO Philippines Holdings Inc.
	KEPCO Lebanon S.A.R.L.
	KEPCO Neimenggu International Ltd.
	KEPCO Shanxi International Ltd.
	KEPCO Australia Pty Ltd.
	KEPCO Canada Energy Ltd.
	KEPCO Netherlands B.V.
	Korea Imouraren Uranium Investment Corp.
	KEPCO Middle East Holding Company

## Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

	KEPCO Electric Power Nigeria Ltd.
	Sylardus Holdings B.V.
	KEPCO Netherlands B.V.
	KEPCO Holdings de Mexico and 40 other entities.
Affiliates	Daegu Green Power Co., Ltd.
	Korea Gas Corporation
	Korea Electric Power Industrial Development Co., Ltd.
	YTN Co., Ltd., Cheongna Energy Co., Ltd.
	Gangwon Wind Power Co., Ltd.
	Hyundai Green Power Co., Ltd.
	Korea Power Exchange
	Hyundai Energy Co., Ltd.
	Daeryun Power Co., Ltd.
	SPC Power Corporation
	Gemeng International Energy Group Co.,Ltd.
	PT. Cirebon Electric Power
	PT Wampu Electric Power
	PT. Bayan Resources T.B.K. and 15 other entities.
Joint ventures	KEPCO-Unde Inc.
	Datang Chaoyang Renewable Power Co.,Ltd.
	KEPCO SPC Power Corporation
	Gansu Datang Yumen Wind Power Company Ltd.
	Datang Chifeng Renewable Power Co., Ltd.
	Jamaica Public Service Company Limited and 16 other entities.
Others	Korea Finance Corporation

**Table of Contents**

- (2) All transactions between KEPCO and its consolidated subsidiaries are eliminated in consolidation. Transactions with other related parties for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

Company name	Transaction type	Sales and others		Purchase and others	
		2011	2010	2011	2010
Korea GAS Corporation	Purchase of power				
	generation fuel	(Won) 42,138	(Won) 47,070	(Won) 9,377,458	(Won) 7,139,758
Korea Electric Power Industrial Development Co., Ltd.	Electricity metering	5,778	7,998	188,481	210,502
Korea Power Exchange	Electricity purchase	9,576	9,296	66,894	64,830
PT.Cirebon Electric Power	Architectural engineering				
	and education service	1,092	1,449		
KW Nuclear Components Co., Ltd	Sales of service	87	382		
STX Electric Power Co., Ltd.	Architectural engineering	4,441			
Sanggong Energy Co., Ltd.	Architectural engineering	632	212		
AMEC Partners Korea	Architectural engineering	24	86		
Pyeongchang Wind Power Co., Ltd	Architectural engineering	246			
Korea District heating Corp.	Heat supplying service				53,571
Hyundai Green Power Co., Ltd	Architectural engineering				
	and technical advisory	10,190	3,494		
Hyundai Energy Co., Ltd	Power generation service	9,079			
Daegu Green Power Co., Ltd.	Architectural engineering		313		
Cheongna Energy Co., Ltd.	Rental income and others	7,940	1,274		
YTN	Service	978	1,324	915	628
Gangwon Wind Power Co., Ltd	Service	115			
Ecollite Co. Ltd	Service	35			
Daeryun Power Co., Ltd.	Service	68			
KEPCO SPC Power Corporation	Service	12,428	4,781		
Kings Plaza JV, LLC	Service	6,543			
Jamaica Public Service Company Limited	Service	1,189		392	
SPC Power Corporation	Service	9	37		
Datang Chifeng Renewable Power Co., Ltd.	Interest income	4,642	3,926		

**Table of Contents**

(3) Receivables and payables arising from related party transactions as of December 31, 2011 and 2010 are as follows (KRW in millions):

Company name	Type	Receivables			Payables		
		Dec.31, 2011	Dec.31, 2010	Jan.1, 2010	Dec.31, 2011	Dec.31, 2010	Jan.1, 2010
Korea GAS Corporation	Account Receivables	(Won) 5,506	(Won) 5,391	(Won) 4,537	(Won)	(Won)	(Won)
	Other Receivables			189			
	Account Payables				1,224,877	1,085,530	777,597
	Other Payables				64	57	38,084
Korea Power Exchange	Account Receivables	1,662	293	105			
	Other Payables				3,023	1,085	658
Korea Electric Power Industrial Development Co., Ltd.	Account Receivables	227	3	3			
	Other Receivables	1,002	187	748			
	Account Payables				211	162	18
	Other Payables				22,134	20,892	18,083
Hyundai Green Power Co., Ltd.	Account Receivables	2,179	1,514	101			
Hyundai Energy Co., Ltd.	Account Receivables	148					
Pyeongchang Wind Power Co., Ltd.	Account Receivables	414					
Sangong Energy Co., Ltd.	Account Receivables	284	212				
LG U Plus (formerly LG Powercom)	Account Receivables			344			
	Other Receivables			1,992			
	Other Payables						2,826
PT.Cirebon Electric Power	Account Receivables	438	102				
STX Electric Power Co., Ltd.	Account Receivables	2,087					
YTN Co., Ltd.	Account Receivables	78					
Gangwon Wind Power Co., Ltd.	Account Receivables	10					
Daeryun Power Co., Ltd.	Account Receivables	1					
Ecollite Co. Ltd	Account Receivables	1					
KW Nuclear Components	Account Receivables	262	175				
	Other Payables				262		
E-Power S.A	Account Payables			2,627			
Korea District heating Corp.	Account Receivables			1,906			
	Other Receivables			226			
	Account Payables						45,718
	Other Payables						2,133
Daegu Green Power Co., Ltd.	Account Receivables		191				
Cheongna Energy Co., Ltd.	Account Receivables	109					
	Other Receivables	119	1,402	1,041			
	Other Payables						198
AMEC Partners Korea	Account Receivables		20				
Kings Plaza JV, LLC	Account Receivables	477	83				
Jamaica Public Service Company Limited	Account Receivables	681					

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

KEPCO SPC Power Corporation	Account Receivables	3,732	67		
SPC Power Corporation	Other Receivables	7,623	3,408	4,954	
Datang Chifeng Renewable Power Co., Ltd	Account Payables			353	349 340
	Other Receivables	4,831	3,867	2,902	

F-129

**Table of Contents**

(4) Loans arising from related party transactions as of December 31, 2011 and 2010 are as follows (KRW in millions):

Type	Company name	Dec. 31, 2011	Dec. 31, 2010	Jan. 1, 2010
Joint ventures	KEPCO SPC Power Corporation	(Won) 96,647	(Won) 43,805	(Won) 44,909
Affiliates	Datang Chifeng Renewable Power Co., Ltd.	54,590	80,862	105,084
Affiliates	KNOC Nigerian East Oil Co., Ltd.	26,504	25,593	24,192
Affiliates	KNOC Nigerian West Oil Co., Ltd.			
Affiliates	Dolphin Property Limited	987	981	993

(5) Borrowings arising from related party transactions as of December 31, 2011, December 31, 2010, and January 1, 2010 are as follows (KRW in millions):

Related parties	Type	Dec. 31, 2011	Dec. 31, 2010	Jan. 1, 2010
Korea Finance Corporation	Facility	(Won) 1,712,222	(Won) 867,222	(Won) 1,922,221
	Project Loan	159,432	157,442	

(6) Guarantees provided to an affiliates or joint ventures as of December 31, 2011 are as follows (USD and AED in thousands, KRW in millions):

Primary guarantor (Providing company)	Secondary guarantor (Provided company)	Type of guarantees	Foreign Currency	Credit limit	Guarantee (Final provided company)
Korea Electric Power Corporation	KNOC Nigerian East Oil Co., Ltd.	Performance guarantees	USD	34,650	Korea National Oil Corporation (Nigerian government)
Korea Electric Power Corporation	Shuweiht Asia Power Investment B.V.	Performance guarantees	USD	17,944	ADWEA
Korea Electric Power Corporation	Shuweiht Asia O&M Co.	Performance guarantees	USD	11,000	ADWEA
Korea Electric Power Corporation	KEPCO SPC Power Co.	Debt guarantees	USD	220,590	SMBC, ADB, Export-import Bank of Korea
Korea Electric Power Corporation	Rabigh Electricity Company	Performance guarantees	SAR	100,000	Saudi Electricity Company (SEC)
Korea Western Power Co., Ltd.	Cheongna Energy Co., Ltd.	Collateralized money invested	KRW	30,000	Hana Bank,
Korea Midland Power Co., Ltd.	PT Cirebon Electric Power	Performance guarantees for foreign business	IDR	24,750,000	Korea Exchange Bank ANZ PANIN Bank Indonesia



Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Korea Midland Power Co., Ltd.	Sanggong Energy Co., Ltd.	Performance guarantees for business	KRW	65,000	Hana Bank and others
-------------------------------	---------------------------	-------------------------------------	-----	--------	----------------------

F-130

**Table of Contents**

- (7) As of December 31, 2011, there are no guarantees provided from related party.
- (8) On January 1, 2011, the Company restructured its the pumped storage power businesses from five power generation subsidiaries (Korea South-East Power Co., Ltd., Korea Midland Power Co., Ltd., Korea Western Power Co., Ltd., Korea Southern Power Co., Ltd., and Korea East-West Power Co., Ltd.) and merged them under Korea Hydro & Nuclear Power Co., Ltd. ( KHNP ). As of December 31, 2011, the Company has joint and several obligations for liabilities in pumped storage power business segment with 5 power generation subsidiaries and KHNP, for the obligations related to the periods prior to the restructuring.
- (9) As of December 31, 2011, Hyundai Energy Co., Ltd., an associate which is engaged in the integrated energy business, carried long-term borrowings for project financing amounting to (Won)450 billion from Korea Development Bank ( KDB ) and others. In connection with these borrowings, the Company pledged its investment securities in Hyundai Energy Co., Ltd. amounting to (Won)30,878 million to secure the long-term borrowings amounting to (Won)390 billion on behalf of its investee. In addition, the Company placed guarantees for the business performance of Hyundai Energy Co., Ltd., and had a payment guarantee in relation to the repayment of the principal and interest in arrears of unsubordinated borrowings amounting to (Won)60 billion. Related to above project financing, NH Power II Co., Ltd. and Daewoo Securities Co., Ltd. entered into an agreement with Yeocheon TPL Co., Ltd. to acquire shares in Hyundai Energy Co., Ltd. held by Yeocheon TPL Co., Ltd. The Company placed guarantees for a fixed return on investment to the financial institutions and obtained the rights to acquire preferential investment securities in return.
- (10) As of December 31, 2011, RES Technology AD ( RES ) and ASM-BG Investicii AD ( ASM ), related parties, were engaged in the photovoltaic power generation business in Bulgaria and had long-term borrowings for project financing amounting to EUR 59,243 thousand and EUR 59,469 thousand from KDB and others, respectively. In connection with these borrowings, the Company pledged its investment securities in RES and ASM to secure the long-term borrowings.
- (11) The salaries and other compensations to the key members of management for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

Type	2011	2010
Salaries	(Won) 1,301	(Won) 1,393
Retirement and severance benefits	56	43
	(Won) 1,357	(Won) 1,436

47. **NON-CASH TRANSACTIONS:**

Major non-cash investment and finance transactions excluded from statements of cash flows for the years ended December 31, 2011 and 2010 are as follows (KRW in millions):

Transactions	2011	2010
Transfer from long-term borrowings to current portion of long-term borrowings	(Won) 3,765,287	(Won) 4,062,930
Transfer from construction in-progress to other assets	9,643,265	6,428,855

**Table of Contents**48. COMMITMENTS FOR EXPENDITURE:

- (1) The agreements for acquisition of property, plant and equipment as of December 31, 2011, December 31, 2010 and January 1, 2010 are as follows. (KRW in millions):

Contracts	Dec. 31, 2011		Dec. 31, 2010		Jan. 1, 2010	
	Amounts	Balance	Amounts	Balance	Amounts	Balance
Construction of new Uljin #3,4	(Won) 8,261,817	(Won) 8,260,185	(Won)	(Won)	(Won)	(Won)
Construction of new Uljin #5,6	7,616,807	7,606,378	7,616,807	7,612,870		
Construction of new Kori #3,4	6,481,107	2,471,894	6,481,107	3,014,247	6,481,107	3,905,498
Construction of new Uljin #1,2	6,298,124	5,064,092	6,298,124	5,540,672		
Construction of new Kori #1,2	4,913,442	232,278	4,913,442	470,217	4,913,442	2,783,254
Construction of new Wolsong #3,4	4,717,241	594,210	4,717,241	1,264,078	4,717,241	2,482,104
Construction for main equipment of Yeongheung #5,6 and 47 others	1,569,402	1,100,120	1,569,402	1,440,104		
Architectural engineering for improvement facilities of Yeosu #2 and 35 others	895,858	207,318	895,858	698,663	895,858	895,858
Construction for main equipment of Dangjin #9,10	800,729	800,729				
Purchase connecting wire of Yeogheung #5,6 and 53 others	540,321	506,198				
Purchase main equipment of Sejong city combined heat & power plant	305,360	277,640				
Engineering and construction of Dangjin #9,10	304,129	292,921				
Engineering and construction of new Boryeong #9,10	246,964	246,964				
Construction of Incheon #3	130,476	69,913	130,476	129,631		
Construction of Sejong city combined heat & power plant	114,531	114,531				
Architectural engineering of new	114,433	97,307				

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Boryeong #1,2 Architectural engineering of Dangjin #9,10	105,399	60,051	103,595	69,429	101,271	76,908
Architectural engineering of Taeon #9,10	103,000	91,449				
Construction of boiler of Yeongheung #1,2 and regular overhaul of Yeongdong and 3 others	93,110	28,752				
Construction inspection of head office building and 7 others	58,818	34,003				
765KV steel tower LAA-32P 5 units and 18 things	49,372	15,101	49,372	26,858	49,372	37,339
345kV Optical Fiber Composite Electric Power Cable (PVC,1C,2500SQ)	46,432	38,921	46,432	46,432	46,432	46,432
765KV steel tower AAS-31P 1 unit and 14 things	43,858	12,644	43,858	27,993	43,858	35,992
	(Won) 43,810,730	(Won) 28,223,599	(Won) 32,865,714	(Won) 20,341,194	(Won) 17,248,581	(Won) 10,263,385

F-132

**Table of Contents**

(2) As of December 31, 2011, details of contracts for inventory purchase are as follows:

(a) The Company has purchase commitment contracts for bituminous coal, anthracite coal, oil and LNG with domestic and foreign suppliers including Korea Gas Corporation (a related party). Under these contracts, the Company must purchase an annual quantity of coal. The purchase price is determined based on market prices. In addition, related to its coal imports, the Company has entered into long-term transportation contracts with Hanjin Shipping Co., Ltd. and others as of December 31, 2011. Purchase contract for bituminous coal as of December 31, 2011 are as follows (thousand tons):

Fuel type	Contract period	Quantity
Indonesia Coal	2004 ~ 2022	30,082
Australia Coal	2005 ~ 2027	25,540
America Coal	2009 ~ 2015	4,470
Russia Coal	2008 ~ 2012	2,770
Republic of South Africa Coal	2010 ~ 2013	2,260
Others	2007 ~ 2012	3,682
<b>Total</b>		<b>68,804</b>

(b) The Company imports all of its uranium ore concentrates from sources outside Korea (including the United States, United Kingdom, Kazakhstan, France, Russia, South Africa, Canada and Australia) which are paid for with currencies other than Won, primarily in U.S. dollars. In order to ensure stable supply, the Company entered into long-term and medium-term contracts with various suppliers, and supplements such supplies with purchases of fuels on spot markets. The long-term and medium-term contract periods vary among contractors and the stages of fuel manufacturing process. Contract prices for processing of uranium are generally based on market prices. Contract periods for ore concentrates, conversion, enrichment and design and fabrication are as follows:

Type	Periods	Contracted amounts
Concentrate	2011 ~ 2019	18,555 ton U3O8
Transformed	2011 ~ 2020	9,391 ton U
Enrichment	2011 ~ 2029	39,768 ton SWU
Enriched uranium	2011 ~ 2022	1,321 ton U(4.65% enriched)
Molded	2011 ~ 2015	1,348 ton U

(3) In April 2010, in order to deal with the long-term shortage of fuel and other resources and also to comply with various environmental standards, the Korean government announced a plan to adopt the Renewable Portfolio Standard ( RPS ) policy. Under the plan, the Company's generation subsidiaries will be required to supply 2.0% and 10.0% of the total electricity generated from renewable energy by 2012 and 2022, respectively, with fines being levied on any generation failing to do so in the prescribed timeline. As of December 31, 2011, the Company's generation subsidiaries generated approximately 1% of its total electricity from renewable energy.

49. **CONTINGENCIES AND CONTRACTS:**

(1) Ongoing litigations related with contingent liabilities and assets as of December 31, 2011, December 31, 2010, and January 1, 2010 is as follows (KRW in millions):

Dec. 31, 2011

Dec. 31, 2010

Jan. 01, 2010

Edgar Filing: KOREA ELECTRIC POWER CORP - Form 20-F

Type	Number of cases	Claim amount	Number of cases	Claim amount	Number of cases	Claim amount
As the defendant	(Won) 429	(Won) 138,498	(Won) 442	(Won) 126,886	(Won) 404	(Won) 187,102
As the plaintiff	103	21,403	112	144,511	85	55,885

F-133

**Table of Contents**

(2) Guarantees of borrowings provided to other company as of December 31, 2011 are as follows (USD in thousands):

Guarantees	Financial and non-financial institutions	Contracts date	Period of guarantees	Foreign currency	Dec. 31, 2011	Dec. 31, 2010
Repayment guarantees For UAE shuweiha S3 borrowings	Mizuho, SMBC, HSBC	May 16, 2011	May 16, 2011 ~ February 28, 2014	USD	58,294	

The Company provides (Won)5,200 million performance guarantee related to construction completion to Kookmin Bank. As such performance guarantee does not meet the definition of financial guarantee contract in IAS 39, no related liability is recognized.

(3) Credit lines provided by financial institutions as of December 31, 2011 are as follows (KRW in millions, USD in thousands):

Commitments	Financial institutions	Foreign currencies	Amounts
Commitments on Bank-overdraft	Kookmin Bank and others	KRW	1,254,000
Commitments on Bank-daylight overdraft	Nonghyup Bank	KRW	280,000
Limit amount available for CP	Shinhan Bank and others	KRW	2,049,000
Limit amount available for card	Industrial Bank of Korea and others	KRW	71,570
Certification of payment on payables from foreign country	Korea Development Bank	USD	583,993
Certification of payment on L/C	Korea Exchange Bank	GBP	61,169
	Suhyup Bank and others	KRW	99,213
	Korea Exchange Bank and others	USD	1,616,063
Inclusive credit	Korea Exchange Bank	KRW	387,500
	HSBC and others	USD	547,012
Loan limit	Korea Exchange Bank	KRW	506,830
	HSBC and others	USD	1,233,000
Certification of performance of business on overseas oilfield or electricity	Bank of Kathmandu	NPR	155,448
	SABB	SAR	100,000
	Export-import Bank of Korea and others	USD	223,708
	Hana Bank	KRW	65,000
Certification of performance guarantee on contracts	Korea Exchange Bank	AED	54,880
	Bhutan National Bank	BTN	11,857
	HSBC and others	INR	244,333
	Seoul Guarantee Insurance and others	KRW	16,592
	Standard Chartered Bank and others	USD	653,230
Certification of bidding	HSBC and others	INR	82,700
	Standard Chartered Bank	THB	72,000
	Shinhan Bank and others	USD	81,016
Advance payment bond, warranty bond, retention bond and others	Korea Exchange Bank	BDT	10,206
	Bhutan National Bank	BTN	11,857
	Shinhan Bank	EUR	5,438
	HSBC	INR	139,690
	Nonghyup Bank	USD	20,212
Others	Shinhan Bank	JPY	750

**Table of Contents**50. SUBSEQUENT EVENTS:

- (1) Korea Hydro & Nuclear Power Co., Ltd., a subsidiary, issued corporate bonds in subsequent period and details are as follows (KRW in millions):

Type	Interest rate (%)	Issued date	Maturity date	Amounts
30-1st unsecured bond	3.84	2012.01.19	2017.01.19	(Won) 100,000
30-2nd unsecured bond	4.04	2012.01.19	2022.01.19	150,000
30-3rd unsecured bond	4.24	2012.01.19	2032.01.29	50,000
31-1st unsecured bond	4.01	2012.03.20	2017.03.20	50,000
31-2nd unsecured bond	4.15	2012.03.20	2022.03.20	100,000
31-3rd unsecured bond	4.32	2012.03.20	2032.03.20	150,000
32-1st unsecured bond	3.80	2012.04.26	2017.04.26	70,000
32-2nd unsecured bond	3.97	2012.04.26	2022.04.26	100,000
32-3rd unsecured bond	4.14	2012.04.26	2032.04.26	130,000

- (2) Korea South-East Power Co., Ltd., a subsidiary, issued 27th unsecured bonds in subsequent period and details are as follows. (KRW in millions):

Type	Interest rate (%)	Issued date	Maturity date	Amounts
27-1st unsecured bond	3.70	2012.02.23	2015.02.23	(Won) 130,000
27-2nd unsecured bond	3.85	2012.02.23	2017.02.23	50,000
27-3rd unsecured bond	4.09	2012.02.23	2022.02.23	170,000

- (3) Korea Midland Power Co., Ltd., a subsidiary, issued 20th unsecured bond in subsequent period and details are as follows. (KRW in millions):

Type	Interest rate (%)	Issued date	Maturity date	Amounts
20-1st unsecured bond	3.85	2012.02.28	2017.02.28	(Won) 150,000
22-2nd unsecured bond	3.89	2012.02.28	2019.02.28	50,000

- (4) Korea East West Power Co., Ltd., a subsidiary, issued 16th unsecured bond in subsequent period and details are as follows. (KRW in millions):

Type	Interest rate (%)	Issued date	Maturity date	Amounts
16-1st unsecured bond	4.05	2012.03.22	2017.03.22	(Won) 100,000
16-2nd unsecured bond	4.21	2012.03.22	2022.03.22	200,000

- (5) In March 2012, Korea Western Power Co., Ltd., a subsidiary, purchased a 22.7 % equity interest in Pioneer Gas Power for a purchase price of approximately USD 20,202 thousand to construct a 388-megawatt combined-cycle power plant in Maharashtra, India.



---

**Table of Contents**

**INDEX OF EXHIBITS**

- 1.1 Articles of Incorporation, as amended on April 16, 2012 (in English)
- 2.1 Form of Deposit Agreement\*
- 8.1 List of Subsidiaries
- 12.1 Certifications of our Chief Executive Officer required by Rule 13a-14(a) of the Exchange Act (Certifications under Section 302 of the Sarbanes-Oxley Act of 2002)
- 12.2 Certifications of our Chief Financial Officer required by Rule 13a-14(a) of the Exchange Act (Certifications under Section 302 of the Sarbanes-Oxley Act of 2002)
- 13.1 Certifications of our Chief Executive Officer required by Rule 13a-14(b) and Section 1350 of Chapter 63 of the United States Code (18 U.S.C. 1350) (Certifications under Section 906 of the Sarbanes-Oxley Act of 2002)
- 13.2 Certifications of our Chief Financial Officer required by Rule 13a-14(b) and Section 1350 of Chapter 63 of the United States Code (18 U.S.C. 1350) (Certifications under Section 906 of the Sarbanes-Oxley Act of 2002)
- 15.1 The Korea Electric Power Corporation Act, as amended (in Korean and English)\*\*
- 15.2 Enforcement Decree of the Korea Electric Power Corporation Act, as amended (in Korean and English)\*\*\*
- 15.3 The Public Agencies Management Act of 2007, as amended on July 25, 2011 (in English)
- 15.4 Enforcement Decree of the Public Agencies Management Act of 2007, as amended on October 14, 2011 (in English)

\* Incorporated by reference to the Registrant's Registration Statement on Form F-6 with respect to the ADSs, registered under Registration No. 33-84612.

\*\* Incorporated by reference to the Registrant's Annual Report on Form 20-F for the fiscal year ended December 31, 2002.

\*\*\* Incorporated by reference to the Registrant's Registration Statement on Form F-3 filed on March 8, 2000, registered under Registration No. 333-9180.