

KOREA ELECTRIC POWER CORP

Form 6-K

March 06, 2017

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**SECURITIES AND EXCHANGE COMMISSION**

**Washington, DC 20549**

**FORM 6-K**

**REPORT OF FOREIGN PRIVATE ISSUER**

**Pursuant to Rule 13a-16 or 15d-16 of**

**the Securities Exchange Act of 1934**

**For the Month of March 2017**

**KOREA ELECTRIC POWER CORPORATION**

**(Translation of registrant's name into English)**

**55 Jeollyeok-ro, Naju-si, Jeollanam-do, 58217, Korea**

**(Address of principal executive offices)**

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Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F.

Form 20-F

Form 40-F

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):

Indicate by check mark whether the registrant by furnishing the information contained in this form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.

Yes

No

If  Yes is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b):  
82- .

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On March 6, 2017, Korea Electric Power Corporation filed its audit report for the fiscal year 2016 prepared in accordance with Korean International Financial Reporting Standards (K-IFRS) as shown below. The financial statements in such reports have been approved by the shareholders of Korean Electric Power Corporation and remain subject to change.

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**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

By: /s/ Kim, Jeong-soo

Name: Kim, Jeong-soo

Title: Head of Finance & IR team

Date: March 6, 2017

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KOREA ELECTRIC POWER CORPORATION

AND SUBSIDIARIES

Consolidated Financial Statements

December 31, 2016

(With Independent Auditors' Report Thereon)

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Independent Auditors' Report

Based on a report originally issued in Korean

The Board of Directors and Shareholders

Korea Electric Power Corporation:

We have audited the accompanying consolidated statement of financial statements of Korea Electric Power Corporation and subsidiaries (the Company), which comprise the consolidated statements of financial position as at December 31, 2016 and 2015, the consolidated statements of comprehensive income, changes in equity and cash flows for the years then ended, and notes, comprising a summary of significant accounting policies and other explanatory information.

**Management's Responsibility for the Consolidated Financial Statements**

Management is responsible for the preparation and fair presentation of these consolidated financial statements in accordance with Korean International Financial Reporting Standards, and for such internal control as management determines is necessary to enable the preparation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

**Auditors' Responsibility**

Our responsibility is to express an opinion on these consolidated financial statements based on our audits. We conducted our audits in accordance with Korean Standards on Auditing. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the consolidated financial statements. The procedures selected depend on our judgment, including the assessment of the risks of material misstatement of the consolidated financial statements, whether due to fraud or error. In making those risk assessments, we consider internal control relevant to the entity's preparation and fair presentation of the consolidated financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

**Opinion**

In our opinion, the consolidated financial statements present fairly, in all material respects, the consolidated financial position of the Company as of December 31, 2016 and 2015 and its consolidated financial performance and its consolidated cash flows for the years then ended in accordance with Korean International Financial Reporting Standards.

**Emphasis of Matters**

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Without qualifying our audit report, we draw attention to the following key audit matters of the build-to-order industry that were of significance in our audit of the consolidated financial statements as of and for the year ended December 31, 2016, which determination is based on auditor's professional judgment and communications with those who charged with governance, in accordance with Practical Guide of Korean Standards on Auditing 2016-1. This matter was addressed in the context of our audit of the consolidated financial statements as a whole, and we do not provide a separate opinion on this matter. We have considered the results from audit procedures for these key audit matters in forming our audit opinion on the 2016 consolidated financial statements.

When the outcome of a construction contract can be estimated reliably, the Company recognizes contract revenue and costs based on the percentage-of-completion method at the end of the reporting period. Also, the gross amount due from customers for contract work is presented for all contracts in which costs incurred plus recognized profits exceed progress billings. The gross amount due to customers for contract work is presented for all contracts in which progress billings exceed costs incurred plus recognized profits.



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Total contract revenue is measured based on an agreed contract price; however, it may fluctuate due to the variation of construction work. The measurement of contract revenue is affected by various uncertainties resulting from unexpected future events. Total contract costs are estimated based on the estimates of future costs such as material costs, labor costs and construction period. The uncertainty of estimated total contract costs and changes in such estimates have an impact on the completion progress and contract revenue.

Considering the impacts from these uncertainty and changes in estimates on profit or loss for the current or future periods, we identified the Company's revenue recognition accounting policy utilizing the input method, uncertainty of estimated total contract costs, assessment of the percentage-of-completion and accounting for the variation of construction works as significant risks.

We conducted the following audit procedures regarding the Company's accounting policy of revenue recognition utilizing the input method as of and for the year ended December 31, 2016:

Review of the appropriateness of accounting policy of revenues recognition by the input method

Inquiry and analytical review of current progress and significant changes in major projects as of period end

Inquiry and analytical review of financial indicators such as contract price, estimated contract costs, cost ratio, ratio of amounts due from customers for contract work, major components of total contract costs by the reporting period, accumulated contract costs, fluctuations in total contract costs and others

Testing of design and operating effectiveness of internal controls over construction contracts with changed terms and conditions

Testing of design and operating effectiveness of internal controls over new construction contracts

Recalculation of the percentage of completion independently for the contracts in which the percentage of completion was significantly changed

Independent testing of appropriateness of input costs, cut-off, and attribution of costs to each construction contract

Review of whether financial statement disclosures on changes in constructions are disclosed appropriately

KPMG Samjong Accounting Corp.

Seoul, Korea

March 6, 2017

This report is effective as of March 6, 2017, the audit report date. Certain subsequent events or circumstances, which may occur between the audit report date and the time of reading this report, could have a material impact on the accompanying consolidated financial statements and notes thereto. Accordingly, the readers of the audit report should understand that the above audit report has not been updated to reflect the impact of such subsequent events or circumstances, if any.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

## Consolidated Statements of Financial Position

## As of December 31, 2016 and 2015

<i>In millions of won</i>	<i>Note</i>	<b>2016</b>	<b>2015</b>
<b>Assets</b>			
Current assets			
Cash and cash equivalents	5,6,7,45	₩ 3,051,353	3,783,065
Current financial assets, net	5,10,11,12,45	2,671,989	5,335,621
Trade and other receivables, net	5,8,14,20,45,46,47	7,788,876	7,473,548
Inventories, net	13	5,479,443	4,946,413
Income tax refund receivables	41	19,163	9,081
Current non-financial assets	15	631,860	397,950
Assets held-for-sale	42	65,842	79,647
<b>Total current assets</b>		19,708,526	22,025,325
Non-current assets			
Non-current financial assets, net	5,6,9,10,11,12,45	2,657,494	2,495,554
Non-current trade and other receivables, net	5,8,14,45,46,47	1,903,515	1,798,419
Property, plant and equipment, net	18,27,49	145,743,056	141,361,351
Investment properties, net	19,27	353,680	269,910
Goodwill	16	2,582	2,582
Intangible assets other than goodwill, net	21,27,46	980,821	855,832
Investments in associates	4,17	4,092,252	4,405,668
Investments in joint ventures	4,17	1,418,196	1,287,862
Deferred tax assets	41	795,131	623,623
Non-current non-financial assets	15	181,789	131,233
<b>Total non-current assets</b>		158,128,516	153,232,034
<b>Total Assets</b>	4	₩ 177,837,042	175,257,359

*(Continued)*

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

## Consolidated Statements of Financial Position, Continued

## As of December 31, 2016 and 2015

<i>In millions of won</i>	<i>Note</i>	<b>2016</b>	<b>2015</b>
<b>Liabilities</b>			
Current liabilities			
Trade and other payables, net	5,22,24,45,47	₩ 5,585,411	4,735,697
Current financial liabilities, net	5,11,23,45,47	8,942,329	7,857,198
Income tax payables	41	1,843,288	2,218,060
Current non-financial liabilities	20,28,29	6,368,210	6,320,711
Current provisions	26,45	1,999,988	1,579,176
<b>Total current liabilities</b>		24,739,226	22,710,842
Non-current liabilities			
Non-current trade and other payables, net	5,22,24,45,47	3,558,175	3,718,435
Non-current financial liabilities, net	5,11,23,45,47	44,835,562	51,062,811
Non-current non-financial liabilities	28,29	7,591,605	7,092,252
Employee benefits liabilities, net	25,45	1,686,258	1,503,107
Deferred tax liabilities	41	8,948,520	8,362,683
Non-current provisions	26,45	13,427,151	12,864,754
<b>Total non-current liabilities</b>		80,047,271	84,604,042
<b>Total Liabilities</b>	4	₩ 104,786,497	107,314,884
<b>Equity</b>			
Contributed capital	1,30,45		
Share capital		₩ 3,209,820	3,209,820
Share premium		843,758	843,758
		4,053,578	4,053,578
Retained earnings	31		
Legal reserves		1,604,910	1,604,910
Voluntary reserves		31,847,275	23,720,167
Unappropriated retained earnings		19,721,686	22,862,164
		53,173,871	48,187,241
Other components of equity	34		

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Other capital surplus		1,235,146	1,197,388
Accumulated other comprehensive loss		(33,875)	(98,713)
Other equity		13,294,973	13,294,973
		14,496,244	14,393,648
Equity attributable to owners of the controlling company		71,723,693	66,634,467
Non-controlling interests	16, 33	1,326,852	1,308,008
<b>Total Equity</b>		<b>₩ 73,050,545</b>	<b>67,942,475</b>
<b>Total Liabilities and Equity</b>		<b>₩ 177,837,042</b>	<b>175,257,359</b>

*See accompanying notes to the consolidated financial statements.*

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

## Consolidated Statements of Comprehensive Income

## For the years ended December 31, 2016 and 2015

<i>In millions of won, except per share information</i>	<i>Note</i>	<b>2016</b>	<b>2015</b>
<b>Sales</b>	4,35,45,47		
Sales of goods		₩ 55,379,487	54,367,036
Sales of services		356,743	453,487
Sales of construction services	20	4,026,857	3,761,204
Revenue related to transfer of assets from customers		427,297	375,995
		60,190,384	58,957,722
<b>Cost of sales</b>	13,25,43,47		
Cost of sales of goods		(41,237,372)	(41,348,917)
Cost of sales of services		(557,037)	(545,692)
Cost of sales of construction services		(3,755,144)	(3,563,120)
		(45,549,553)	(45,457,729)
<b>Gross profit</b>		14,640,831	13,499,993
<b>Selling and administrative expenses</b>	25,36,43,47	(2,639,232)	(2,153,261)
<b>Operating profit</b>	4	12,001,599	11,346,732
<b>Other non-operating income</b>	37	412,887	432,219
<b>Other non-operating expense</b>	37	(188,624)	(108,848)
<b>Other gains, net</b>	38	70,498	8,610,773
<b>Finance income</b>	5,11,39	791,543	1,182,988
<b>Finance expenses</b>	5,11,40	(2,437,087)	(3,015,457)
<b>Profit related to associates, joint ventures and subsidiaries</b>	4,17		
Share in profit of associates and joint ventures		224,435	280,794
Gain on disposal of investments in associates and joint ventures		52	4,731
Gain on disposal of investments in subsidiaries	16		8,376
Share in loss of associates and joint ventures		(243,361)	(86,522)
Loss on disposal of investments in associates and joint ventures		(2,935)	
Impairment loss on investments in associates and joint ventures	17	(115,539)	
		(137,348)	207,379

<b>Profit before income tax</b>		10,513,468	18,655,786
<b>Income tax expense</b>	41	(3,365,141)	(5,239,413)
<b>Profit for the period</b> <i>(Continued)</i>		₩ 7,148,327	13,416,373

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

## Consolidated Statements of Comprehensive Income, Continued

**For the years ended December 31, 2016 and 2015**

<i>In millions of won, except per share information</i>	<i>Note</i>	<b>2016</b>	<b>2015</b>
<b>Other comprehensive income (loss)</b>	5,11,25,31,34		
Items that will not be reclassified subsequently to profit or loss:			
Remeasurements of defined benefit liability, net of tax	25,31	₩ (75,926)	(87,861)
Share in other comprehensive loss of associates and joint ventures, net of tax	31	(2,515)	(283)
Items that are or may be reclassified subsequently to profit or loss:			
Net change in the unrealized fair value of available-for-sale financial assets, net of tax	34	61,279	9,648
Net change in the unrealized fair value of derivatives using cash flow hedge accounting, net of tax	5,11,34	28,414	4,409
Foreign currency translation of foreign operations, net of tax	34	41,360	18,535
Share in other comprehensive income (loss) of associates and joint ventures, net of tax	34	(54,914)	89,558
<b>Other comprehensive income (loss), net of tax</b>		(2,302)	34,006
<b>Total comprehensive income for the period</b>		₩ 7,146,025	13,450,379
<b>Profit or loss attributable to:</b>			
Owners of the controlling company	44	₩ 7,048,581	13,289,127
Non-controlling interests		99,746	127,246
		₩ 7,148,327	13,416,373
<b>Total comprehensive income attributable to:</b>			
Owners of the controlling company		₩ 7,041,557	13,308,132
Non-controlling interests		104,468	142,247
		₩ 7,146,025	13,450,379
<b>Earnings per share</b>	44		
Basic and diluted earnings per share		₩ 10,980	20,701

*See accompanying notes to the consolidated financial statements.*



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

## Consolidated Statements of Changes in Equity

## For the years ended December 31, 2016 and 2015

<i>In millions of won</i>	Equity attributable to owners of the controlling company			Subtotal	Non-controlling interests	Total equity
	Contributed capital	Retained earnings	Other components of equity			
<b>Balance at January 1, 2015</b>	₩ 4,053,578	35,303,647	14,244,106	53,601,331	1,223,679	54,825,010
<b>Total comprehensive income (loss) for the period</b>						
Profit for the period		13,289,127		13,289,127	127,246	13,416,373
Items that will not be reclassified subsequently to profit or loss:						
Remeasurements of defined benefit liability, net of tax		(84,271)		(84,271)	(3,590)	(87,861)
Share in other comprehensive loss of associates and joint ventures, net of tax		(280)		(280)	(3)	(283)
Items that are or may be reclassified subsequently to profit or loss:						
Net change in the unrealized fair value of available-for-sale financial assets, net of tax			9,744	9,744	(96)	9,648
Net change in the unrealized fair value of derivatives using cash flow hedge accounting, net of tax			3,157	3,157	1,252	4,409
Foreign currency translation of foreign operations, net of tax			1,179	1,179	17,356	18,535
Share in other comprehensive income of associates and joint ventures, net of tax			89,476	89,476	82	89,558

**Transactions with owners  
of the Company,  
recognized directly in  
equity**

Dividends paid	(320,982)		(320,982)	(86,071)	(407,053)	
Issuance of shares of capital by subsidiaries and others		2,536	2,536	12,329	14,865	
Equity transaction within consolidation scope other than issuance of share capital		44,166	44,166	9,046	53,212	
Changes in consolidation scope		(716)	(716)	23,229	22,513	
Dividends paid (hybrid securities)				(16,455)	(16,455)	
Others				4	4	
<b>Balance at December 31, 2015</b>	<b>₩ 4,053,578</b>	<b>48,187,241</b>	<b>14,393,648</b>	<b>66,634,467</b>	<b>1,308,008</b>	<b>67,942,475</b>

*(Continued)*

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

## Consolidated Statements of Changes in Equity, Continued

## For the years ended December 31, 2016 and 2015

<i>In millions of won</i>	Equity attributable to owners of the controlling company			Subtotal	Non-controlling interests	Total equity
	Contributed capital	Retained earnings	Other components of equity			
<b>Balance at January 1, 2016</b>	₩ 4,053,578	48,187,241	14,393,648	66,634,467	1,308,008	67,942,475
<b>Total comprehensive income (loss) for the period</b>						
Profit for the period		7,048,581		7,048,581	99,746	7,148,327
Items that will not be reclassified subsequently to profit or loss:						
Remeasurements of defined benefit liability, net of tax		(69,330)		(69,330)	(6,596)	(75,926)
Share in other comprehensive income (loss) of associates and joint ventures, net of tax		(2,532)		(2,532)	17	(2,515)
Items that are or may be reclassified subsequently to profit or loss:						
Net change in the unrealized fair value of available-for-sale financial assets, net of tax			61,275	61,275	4	61,279
Net change in the unrealized fair value of derivatives using cash flow hedge accounting, net of tax			27,075	27,075	1,339	28,414
Foreign currency translation of foreign operations, net of tax			31,406	31,406	9,954	41,360
Share in other comprehensive income (loss) of associates and			(54,918)	(54,918)	4	(54,914)

joint ventures, net of tax

**Transactions with  
owners of the Company,  
recognized directly in  
equity**

Dividends paid	(1,990,089)		(1,990,089)	(99,982)	(2,090,071)
Issuance of shares of capital by subsidiaries and others		1,750	1,750	14,809	16,559
Equity transaction within consolidation scope other than issuance of share capital		36,008	36,008	12,299	48,307
Changes in consolidation scope				3,705	3,705
Dividends paid (hybrid securities)				(16,455)	(16,455)

**Balance at December 31,  
2016**

₩	4,053,578	53,173,871	14,496,244	71,723,693	1,326,852	73,050,545
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*See accompanying notes to the consolidated financial statements.*

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

## Consolidated Statements of Cash Flows

**For the years ended December 31, 2016 and 2015**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
<b>Cash flows from operating activities</b>		
Profit for the period	₩ 7,148,327	13,416,373
Adjustments for:		
Income tax expense	3,365,141	5,239,413
Depreciation	8,881,273	8,269,118
Amortization	79,715	72,266
Employee benefit expense	373,753	314,692
Bad debt expense	37,815	18,350
Interest expense	1,752,868	2,015,684
Loss on sale of financial assets	9	3,008
Loss on disposal of property, plant and equipment	4,996	1,933
Loss on abandonment of property, plant, and equipment	426,519	365,056
Impairment loss on property, plant and equipment		30,344
Impairment loss on intangible assets	3,945	22
Loss on disposal of intangible assets	158	16
Accretion expense to provisions, net	1,782,732	1,602,724
Loss on foreign currency translation, net	253,468	617,224
Valuation and transaction gain on derivative instruments, net	(231,630)	(708,120)
Share in loss (income) of associates and joint ventures, net	18,926	(194,272)
Gain on disposal of financial assets	(1,482)	(4)
Gain on disposal of property, plant and equipment	(74,035)	(8,637,508)
Gain on disposal of intangible assets		(32)
Gain on disposal of investments in associates and joint ventures	(52)	(4,731)
Loss on disposal of investments in associates and joint ventures	2,935	
Gain on disposal of investments in subsidiaries		(8,376)
Impairment loss on investments in associates and joint ventures	115,539	
Interest income	(241,778)	(241,585)
Dividend income	(9,446)	(14,069)
Impairment loss on available-for-sale securities	86,703	84,370
Others, net	66,260	(35,107)
	<b>16,694,332</b>	<b>8,790,416</b>
Changes in:		
Trade receivables	200,529	715,498
Non-trade receivables	(68,322)	(17,102)
Accrued income	69,151	17,051
Other receivables	10,093	(9,441)

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Other current assets	(259,492)	67,520
Inventories	(1,439,545)	(1,190,188)
Other non-current assets	(2,792)	(31,465)
Trade payables	141,994	(1,577,551)
Non-trade payables	(8,379)	38,223
Accrued expenses	(153,172)	(410,744)
Other payables		964
Other current liabilities	284,417	870,945
Other non-current liabilities	809,699	377,617
Investments in associates and joint ventures	75,407	114,708
Provisions	(1,527,129)	(1,033,502)
Payments of employee benefit obligations	(53,477)	(43,100)
Plan assets	(312,125)	(214,449)
	(2,233,143)	(2,325,016)

*(Continued)*

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

## Consolidated Statements of Cash Flows, Continued

**For the years ended December 31, 2016 and 2015**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Cash generated from operating activities	₩ 21,609,516	19,881,773
Dividends received	10,294	38,565
Interest paid	(2,041,379)	(2,176,040)
Interest received	240,878	133,875
Income taxes paid	(3,298,757)	(935,068)
<b>Net cash from operating activities</b>	<b>16,520,552</b>	<b>16,943,105</b>
<b>Cash flows from investing activities</b>		
Proceeds from disposals of associates and joint ventures	46,644	22,058
Acquisition of associates and joint ventures	(113,222)	(116,114)
Proceeds from disposals of property, plant and equipment	207,960	9,843,796
Acquisition of property, plant and equipment	(12,028,789)	(14,049,887)
Proceeds from disposals of intangible assets	430	467
Acquisition of intangible assets	(124,422)	(87,946)
Proceeds from disposals of financial assets	10,876,017	242,856
Acquisition of financial assets	(8,130,621)	(5,326,151)
Increase in loans	(206,092)	(153,570)
Collection of loans	117,561	111,714
Increase in deposits	(468,734)	(352,669)
Decrease in deposits	161,166	185,154
Receipt of government grants	32,878	52,696
Usage of government grants	(33,516)	(13,372)
Net cash inflow (outflow) from changes in consolidation scope	3,754	(968)
Other cash inflow (outflow) from investing activities, net	13,116	(132,034)
<b>Net cash used in investing activities</b>	<b>(9,645,870)</b>	<b>(9,773,970)</b>
<b>Cash flows from financing activities</b>		
Repayment of short-term borrowings, net	(49,604)	(65,355)
Proceeds from long-term borrowings and debt securities	2,302,060	4,178,454
Repayment of long-term borrowings and debt securities	(7,750,047)	(8,960,706)
Payment of finance lease liabilities	(118,215)	(110,040)
Settlement of derivative instruments, net	73,246	73,348
Change in non-controlling interest	10,538	104,019
Dividends paid (hybrid bond)	(16,455)	(16,455)
Dividends paid	(2,088,429)	(409,884)

Other cash outflow from financing activities, net	(570)	
<b>Net cash used in financing activities</b>	<b>(7,637,476)</b>	<b>(5,206,619)</b>
<b>Net increase (decrease) in cash and cash equivalents before effect of exchange rate fluctuations</b>	<b>(762,794)</b>	<b>1,962,516</b>
<b>Effect of exchange rate fluctuations on cash held</b>	<b>31,082</b>	<b>24,249</b>
<b>Net increase (decrease) in cash and cash equivalents</b>	<b>(731,712)</b>	<b>1,986,765</b>
<b>Cash and cash equivalents at January 1</b>	<b>3,783,065</b>	<b>1,796,300</b>
<b>Cash and cash equivalents at December 31</b>	<b>₩ 3,051,353</b>	<b>3,783,065</b>

*See accompanying notes to the consolidated financial statements.*



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

**December 31, 2016****1. Reporting Entity (Description of the controlling company)**

Korea Electric Power Corporation ( KEPCO ), the controlling company as defined in Korean International Financial Reporting Standards ( K-IFRS ) 1110 Consolidated Financial Statements , 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. KEPCO also provides power plant construction services. KEPCO 's stock was listed on the Korea Stock Exchange on August 10, 1989 and KEPCO listed its Depository Receipts (DR) on the New York Stock Exchange on October 27, 1994. KEPCO 's head office is located in Naju, Jeollanam-do.

As of December 31, 2016, KEPCO 's share capital amounts to ₩3,209,820 million and KEPCO 's shareholders are as follows:

	Number of shares	Percentage of ownership
Government of the Republic of Korea	116,841,794	18.20%
Korea Development Bank	211,235,264	32.90%
Other (*)	313,887,019	48.90%
	641,964,077	100.00%

(\*) The number of shares held by foreign shareholders are 197,308,414 shares (30.74%) as of December 31, 2016. In accordance with the Restructuring Plan enacted on January 21, 1999 by the Ministry of Trade, Industry and Energy, KEPCO spun off its power generation divisions on April 2, 2001, resulting in the establishment of six power generation subsidiaries.

**2. Basis of Preparation**

The consolidated financial statements of Korea Electric Power Corporation and subsidiaries (the Company ) were authorized for issuance by the Board of Directors on February 17, 2017, which will be submitted for approval at the shareholders ' meeting held on March 21, 2017.

**(1) Statement of compliance**

These consolidated financial statements have been prepared in accordance with K-IFRS, as prescribed in the Act on External Audits of Corporations in the Republic of Korea.

**(2) Basis of measurement**

These consolidated financial statements have been prepared on the historical cost basis, except for the following material items in the consolidated statements of financial position:

derivative financial instruments are measured at fair value

available-for-sale financial assets are measured at fair value

liabilities for defined benefit plans are recognized at the net of the total present value of defined benefit obligations less the fair value of plan assets

**(3) Functional and presentation currency**

These consolidated financial statements are presented in Korean won ( Won ), which is KEPCO's functional currency and the currency of the primary economic environment in which the Company operates.

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**KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES**

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**2. Basis of Preparation, Continued**

**(4) Use of estimates and judgments**

The preparation of the consolidated financial statements in conformity with K-IFRS requires management to make judgments, estimates and assumptions that affect the application of accounting policies and the reported amounts of assets, liabilities, income and expenses. Actual results may differ from these estimates.

Estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognized in the period in which the estimates are revised and in any future periods affected.

The followings 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.

(i) Useful lives of property, plant and equipment, estimations on provision for decommissioning costs  
The Company reviews the estimated useful lives of property, plant and equipment at the end of each annual reporting period. Management's assumptions could affect the determination of estimated economic useful lives.

The Company records the fair value of estimated decommissioning costs as a liability in the period in which the Company incurs a legal obligation associated with the retirement of long-lived assets that result from acquisition, construction, development and/or normal use of the assets. The Company is required to record a liability for the dismantling (demolition) of nuclear power plants and disposal of spent fuel and low and intermediate radioactive wastes.

(ii) Deferred tax  
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 of each consolidated taxpaying entity. However, the amount of deferred tax assets may be different if the Company does not realize estimated future taxable income during the carryforward periods.

(iii) Valuations of financial instruments at fair values  
The Company's accounting policies and disclosures require the measurement of fair values, for both financial and non-financial assets and liabilities. The Company has an established control framework with respect to the

measurement of fair values. This includes a valuation team that has overall responsibility for overseeing all significant fair value measurements, including Level 3 fair values, and reports directly to the financial officer.

The valuation team regularly reviews significant unobservable inputs and valuation adjustments. If third party information, such as broker quotes or pricing services, is used to measure fair values, then the valuation team assesses the evidence obtained from the third parties to support the conclusion that such valuations meet the requirements of K-IFRS including the level in the fair value hierarchy in which such valuation techniques should be classified.

When measuring the fair value of an asset or a liability, the Company uses market observable data as far as possible. Fair values are categorized into different levels in a fair value hierarchy based on the inputs used in the valuation techniques as follows.

If the inputs used to measure the fair value of an asset or a liability might be categorized in different levels of the fair value hierarchy, then the fair value measurement is categorized in its entirety in the same level of the fair value hierarchy as the lowest level input that is significant to the entire measurement. The Company recognizes transfers between levels of the fair value hierarchy at the end of the reporting period during which the change has occurred.

(iv) Defined employee benefit liabilities

The Company offers its employees defined benefit 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, certain inputs such as discount rates and future salary increases are estimated. Defined benefit plans contain significant uncertainties in estimations due to its long-term nature (refer to note 25).

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**KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES**

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**2. Basis of Preparation, Continued**

**(4) Use of estimates and judgments, continued**

(v) Unbilled revenue

Energy delivered but not yet metered nor billed are estimated at the reporting date are estimated based on consumption statistics and selling price estimates. Determination of the unbilled revenues at the end of the reporting period is sensitive to the estimated consumptions and prices based on statistics. Unbilled revenue recognized as of December 31, 2016 and 2015 are ₩1,615,322 million and ₩1,599,592 million, respectively.

(vi) Construction contracts

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 utilizing the cost-based input method at the end of the reporting period. In applying the cost-based input method, it is necessary to use estimates and assumptions related to the total estimated costs expected to be incurred in the future, costs incurred which are not related to construction progress, changes in costs due to change of contract or design, etc. Total contract revenue is measured based on an agreed contract price; however, it may fluctuate due to the variation of construction work. The measurement of contract revenue is affected by various uncertainties resulting from unexpected future events.

(vii) Wolsung unit 1 nuclear power plant of the Company commenced operations on November 21, 1982 and ended its operations on November 20, 2012 pursuant to its 30-year operating license. On February 27, 2015, the Nuclear Safety and Security Commission (NSSC) evaluated the safety of operation on the Wolsung Unit 1 nuclear power plant and approved to continue its operation until November 20, 2022. As described in note 50, the lawsuit related to the validity of the approval of NSSC is currently ongoing. The consolidated financial statements were prepared based on the judgment of the Company that the approval of NSSC is valid and Wolsung Unit 1 nuclear power plant will be operating until 2022.

**(5) Changes in accounting policies**

(i) Amendments to K-IFRS 1016, Property, Plant and Equipment

The Company has adopted amendments to K-IFRS 1016, Property, Plant and Equipment, since January 1, 2016. Amendments to K-IFRS 1016, Property, Plant and Equipment, specify that the use of revenue-based methods to

calculate the depreciation of an asset is not appropriate.

Upon adoption of the amendments, there is no significant impact on the Company's consolidated financial statements.

(ii) Amendments to K-IFRS 1038, Intangible Assets

The Company has adopted amendments to K-IFRS 1038, Intangible Assets, since January 1, 2016. Amendments to K-IFRS 1038, Intangible Assets, introduce a rebuttable presumption that the use of revenue-based amortization methods for intangible assets is inappropriate. This presumption can be rebutted only when revenue and the consumption of the economic benefits of the intangible asset are highly correlated, or when the intangible asset is expressed as a measure of revenue.

Upon adoption of the amendments, there is no significant impact on the Company's consolidated financial statements.

(iii) Amendments to K-IFRS 1111, Joint Arrangement

The Company has adopted amendments to K-IFRS 1111, Joint Arrangement, since January 1, 2016. Amendments to K-IFRS 1111, Joint Arrangement, require an investor to apply the principles of business combination accounting when it acquires an interest in a joint operation that constitutes a business as defined in K-IFRS 1103, Business Combinations.

Upon adoption of the amendments, there is no significant impact on the Company's consolidated financial statements.

(iv) Amendments to K-IFRS 1011, Construction Contracts

The Company has adopted amendments to K-IFRS 1011, Construction Contracts, since January 1, 2016. Amendments to K-IFRS 1011, Construction Contracts, require the Company to disclose the construction contracts by each project or operating segment (refer to note 20).

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KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**2. Basis of Preparation, Continued**

**(5) Changes in accounting policies, continued**

There are certain amendments to K-IFRS 1105, *Non-current Assets Held for Sale and Discontinued Operation*, that provides guidance when an entity reclassifies an asset (or disposal group) from held for sale to held for distribution to owners (or vice versa), K-IFRS 1107, *Financial Instruments: Disclosures*, K-IFRS 1019, *Employee Benefits*, and K-IFRS 1034, *Interim Financial Reporting*.

Upon adoption of the amendments, there is no significant impact on the Company's consolidated financial statements.

**(6) New standards and interpretations not yet adopted**

The following new standards, interpretations and amendments to existing standards have been published for mandatory application for annual periods beginning after January 1, 2016.

(i) K-IFRS 1109, *Financial Instruments*

K-IFRS 1109, published on September 25, 2015, is effective for annual periods beginning on or after January 1, 2018, with earlier adoption permitted. It replaces existing guidance in K-IFRS 1039, *Financial Instruments: Recognition and Measurement*. The Company plans to adopt K-IFRS 1109 for the year beginning on January 1, 2018. K-IFRS 1109 will generally be applied retrospectively; however the Company plans to take advantage of the exemption allowing it not to restate the comparative information for prior periods with respect to classification and measurement including impairment changes. New hedge accounting requirements will generally be applied prospectively except for certain exemptions including the accounting for the time value of options.

Key features of the new standard, K-IFRS 1109, are 1) classification and measurement of financial assets that reflects the business model in which the assets are managed and their cash flow characteristics, 2) impairment methodology that reflects expected credit loss (ECL) model for financial assets, and 3) expanded scope of hedged items and hedging instruments which qualify for hedge accounting and changes in assessment method for effect of hedging relationships.

K-IFRS 1109 will require the Company to assess the financial impact from application of K-IFRS 1109 and revise its accounting processes and internal controls related to financial instruments. Actual impact of adopting K-IFRS 1109 will be dependent on the financial instruments the Company holds and economic conditions at that time as well as accounting policy elections and judgment that it will make in the future.

The Company has not initiated any changes in internal controls processes or accounting processing systems, and has not performed an assessment of the impact resulting from the application of K-IFRS 1109. The Company is currently performing a detailed assessment of the potential impact from the application of K-IFRS 1109 and plans to complete the assessment in advance of its effective date. Expected impacts on the consolidated financial statements are generally categorized as follows:

#### Classification and measurement of financial assets

Under K-IFRS 1109, financial assets are classified into three principal categories; measured at amortized cost, fair value through other comprehensive income (FVOCI) and fair value through profit or loss (FVTPL) based on the business model in which assets are managed and their cash flow characteristics. Under K-IFRS 1109, derivatives embedded in hybrid contracts where the host is a financial asset are not bifurcated. Instead, the hybrid financial instrument as a whole is assessed for classification.

As there are additional requirements for a financial asset to be classified as measured at amortized costs or FVOCI under K-IFRS 1109 compared to the existing guidance in K-IFRS 1039, the adoption of K-IFRS 1109 would potentially increase the proportion of financial assets that are measured at FVTPL, increasing volatility in the Company's profit or loss.



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KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**2. Basis of Preparation, Continued**

**(6) New standards and interpretations not yet adopted, continued**

The criteria for classification and measurement of financial assets under K-IFRS 1109 are as follows:

A financial asset is measured at amortized cost if it meets both of the following conditions and is not designated as at FVTPL: 1) the asset is held within a business model whose objective is to hold assets to collect contractual cash flows; and 2) the contractual terms of the financial asset give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding.

A financial asset is measured at FVOCI if it meets both of the following conditions and is not designated as at FVTPL: 1) the asset is held within a business model whose objective is achieved by both collecting contractual cash flows and selling financial assets; and 2) the contractual terms of the financial asset give rise on specified dates to cash flow that are solely payments of principal and interest on the principal amount outstanding.

On initial recognition of equity investment that is not held for trading, the Company may irrevocably elect to present subsequent changes in fair value in OCI, and will not reclassify(recycle) the those items in OCI to profit or loss subsequently.

A financial asset is measured at FVTPL if the contractual terms of the financial asset give rise to specified dates to cash flows that are not solely payments of principal and interest on the principal amount outstanding, the debt instrument is held within a business model whose objective is to sell the asset, or the equity instruments that are not elected to be designated as measured at FVOCI.

As of December 31, 2016, the Company has loans and receivables amounting to ₩16,273,877 million, available-for-sale financial assets amounting to ₩1,014,732 million, and financial assets at fair value through profit or loss amounting to ₩367,477 million.

Classification and measurement of financial liabilities

Under K-IFRS 1109, the amount of change in the fair value attributable to the changes in the credit risk of the financial liabilities is presented in OCI, not recognized in profit or loss, and the OCI amount will not be reclassified (recycled) to profit or loss. However, if doing so creates or increase an accounting mismatch, the amount of change in the fair value is recognized in profit or loss.

As a portion of fair value change which was recognized in profit or loss under the existing standard, K-IFRS 1039, will be presented in OCI under K-IFRS 1109, profit or loss related to valuation of the same financial liabilities is likely to decrease.

The Company does not have any financial liability designated as at FVTPL as of December 31, 2016.

#### Impairment: Financial assets and contract assets

K-IFRS 1109 replaces the incurred loss model in the existing standard with a forward-looking expected credit loss (ECL) model for debt instruments, lease receivables, contractual assets, loan commitments, financial guarantee contracts.

Under K-IFRS 1109, impairment losses are likely to be recognized earlier than using the incurred loss model under the existing guidance in K-IFRS 1039 as loss allowances will be measured on either of the 12-month or lifetime ECL based on the extent of increase in credit risk since inception as shown in the below table.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****2. Basis of Preparation, Continued****(6) New standards and interpretations not yet adopted, continued**

	<b>Classification</b>	<b>Loss allowances</b>
Stage 1	Credit risk has not increased significantly since the initial recognition	12-month ECL: ECLs that resulted from possible default events within the 12 months after the reporting date
Stage 2	Credit risk has increase significantly since the initial recognition	Lifetime ECL: ECL that resulted from all possible default events over the expected life of a financial instrument
Stage 3	Credit-impaired	

Under K-IFRS 1109, financial assets of which the credit was impaired at the initial recognition, cumulative changes in lifetime ECL since the initial recognition are recognized as loss allowances.

As of December 31, 2016, the Company has debt instruments in financial assets measured at amortized cost amounting to ₩16,438,054 million (loans and receivables) and has recognized loss allowances for ₩164,177 million.

**Hedge accounting**

K-IFRS 1109 retains the mechanics of hedge accounting (fair value hedge, cash flow hedge, hedging on net investment in a foreign operation) which was defined in the existing guidance in K-IFRS 1109, but provides principle-based and less complex guidance in hedging which focuses on the risk management activities. More hedged items and hedging instruments would qualify for hedge accounting, more qualitative and forward-looking approach will be taken to assessing hedge effectiveness, and qualitative threshold (80~125%) is removed under K-IFRS 1109.

Certain transactions which were not qualified for hedge accounting under the existing standard will likely qualify for hedge accounting under K-IFRS 1109, decreasing volatility in the Company's profits or loss.

As of December 31, 2016, the Company has asset and liabilities designated as hedged items amounting to ₩413,897 million and ₩117,157 million, respectively.

When initially applying K-IFRS 1109, the Company may choose as its accounting policy to continue to apply the hedge accounting requirements of K-IFRS 1039.

(ii) K-IFRS 1115, Revenue from Contracts with Customers

K-IFRS 1115, Revenue from Contracts from Customers, published on November 6, 2015, is effective for annual periods beginning on or after January 1, 2018, with earlier adoption permitted.

It replaces existing revenue recognition guidance, including K-IFRS 1018, Revenue, K-IFRS 1011, Construction Contracts, K-IFRS 2031, Revenue-Barter transactions involving advertising services, K-IFRS, 2113 Customer Loyalty Programs, K-IFRS 2115, Agreements for the construction of real estate, K-IFRS 2118, Transfers of assets from customers.

Existing K-IFRS standards and interpretations including K-IFRS 1018 provide revenue recognition guidance by transaction types such as sales of goods, rendering of services, interest income, royalty income, dividend income and construction revenue; however, under the new standard, K-IFRS 1115, the five-step approach (Step 1: Identify the contract(s) with a customer, Step 2: Identify the performance obligations in the contract, Step 3: Determine the transaction price, Step 4: Allocate the transaction price to the performance obligations in the contract, Step 5: Recognize revenue when the entity satisfied a performance obligation) is applied for all types of contracts or agreements.

The Company is currently performing a detailed assessment of the impact resulting from the application of K-IFRS 1115 and plans to complete the assessment in advance of its effective date.

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**KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES**

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**2. Basis of Preparation, Continued**

**(6) New standards and interpretations not yet adopted, continued**

(iii) Amendments to K-IFRS 1102, Share-based Payment

The amendments include: 1) when measuring the fair value of share-based payment, the effects of vesting and non-vesting conditions on the measurement of cash-settled share-based payment should be consistent with the measurement of equity-settled share-based payment, 2) Share-based payment transaction in which the company settles the share-based payment arrangement net by withholding a specified portion of the equity instruments per statutory tax withholding requirements would be classified as equity-settled in its entirety, if otherwise would be classified as equity-settled without the net settlement feature, and 3) when a cash-settled share-based payment changes to an equity-settled share-based payment because of modifications of the terms and conditions, the original liability recognized is derecognized and the equity-settled share-based payment is recognized at the modification date fair value. Any difference between the carrying amount of the liability at the modification date and the amount recognized in equity at the same date would be recognized in profit and loss immediately. The amendments are effective for annual periods beginning on or after January 1, 2018.

The adoption of the amendments is not expected to have a significant impact on the Company's consolidated financial statements.

(iv) Amendments to K-IFRS 1007, Statement of Cash Flows

The amendments require changes in liabilities arising from financing activities to be disclosed. The amendments are effective for annual periods beginning on or after January 1, 2017.

The adoption of the amendments is not expected to have a significant impact on the Company's consolidated financial statements.

(v) Amendments to K-IFRS 1012, Income Taxes

The amendments clarify that unrealized losses on fixed-rate debt instruments measured at fair value and measured at cost for tax purposes give rise to a deductible temporary difference regardless of whether the holder expects to recover the carrying amount of the debt instrument by sale or by use and that the estimate of probable future taxable profit may include the recovery of some of assets for more than their carrying amount. When the Company assesses whether there will be sufficient taxable profit, the Company should compare the deductible temporary differences with future taxable profit that excludes tax deductions resulting from the reversal of those deductible temporary differences. The

amendments are effective for annual periods beginning on or after January 1, 2017.

The adoption of the amendments is not expected to have a significant impact on the Company's consolidated financial statements.

### **3. Significant Accounting Policies**

The significant accounting policies applied by the Company in preparation of its consolidated financial statements are included below. Except as described in note 2.(5), the accounting policies applied by the Company in these consolidated financial statements are the same as those applied by the Company in its consolidated financial statements as of and for the year ended December 31, 2015.

#### **(1) Basis of consolidation**

The consolidated financial statements are the financial statements of a group in which the assets, liabilities, equity, income, expenses and cash flows of the parent and its subsidiaries are presented as those of a single economic entity. Subsidiaries are controlled by the Company. The Company controls an entity when it is exposed to, or has rights to, variable returns from its involvement with the entity and has the ability to affect those returns through its power over the entity.

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KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**3. Significant Accounting Policies, Continued**

**(1) Basis of consolidation, continued**

Income and expense of a subsidiary acquired or disposed of during the year are included in the consolidated statement of comprehensive income (loss) 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.

When necessary, adjustments are made to the financial statements of subsidiaries to bring their accounting policies into line with those of the Company.

Transactions within the Company are eliminated during the consolidation.

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 K-IFRS 1039, Financial Instruments: Recognition and Measurement or, when applicable, the cost on initial recognition of an investment in an associate or a jointly controlled entity.

**(2) Business combinations**

A business combination is accounted for by applying the acquisition method, unless it is a combination involving entities or businesses under common control.

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 K-IFRS 1012, *Income Taxes* and K-IFRS 1019, *Employee Benefits*, respectively;

assets (or disposal groups) that are classified as held for sale in accordance with K-IFRS 1105,

*Non-current Assets Held for Sale* 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.



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**KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES**

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**3. Significant Accounting Policies, Continued**

**(2) Business combinations, continued**

Non-controlling interest that is present on acquisition day and entitles the holder to a proportionate share of the entity's net assets in an event of liquidation, 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 K-IFRSs.

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 re-measured 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 re-measured at subsequent reporting dates in accordance with K-IFRS 1039, *Financial Instruments: Recognition and Measurement*, or with K-IFRS 1037, *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 re-measured 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.

The assets and liabilities acquired under business combinations under common control are recognized at the carrying amounts recognized previously in the consolidated financial statements of the ultimate parent. The difference between consideration transferred and carrying amounts of net assets acquired is recognized as part of share premium.

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**KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES**

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**3. Significant Accounting Policies, Continued**

**(3) Investments in associates**

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 does 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. If the investment is classified as held for sale, in which case it is accounted for in accordance with K-IFRS 1105, *Non-current Assets Held for Sale*, any retained portion of an investment in associates that has not been classified as held for sale shall be accounted for using the equity method until disposal of the portion that is classified as held for sale takes place. If the Company holds 20% ~ 50% of the voting power of the investee, it is presumed that the Company has significant influence.

After the disposal takes place, the Company shall account for any retained interest in associates in accordance with K-IFRS 1039, *Financial Instruments: Recognition and Measurement* unless the retained interest continues to be an associates, in which case the entity uses the equity method.

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. The requirements of K-IFRS 1039, *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 K-IFRS 1036 *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 K-IFRS 1036 to the extent that the recoverable amount of the investment subsequently increases.



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**KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES**

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**3. Significant Accounting Policies, Continued**

**(3) Investments in associates, continued**

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 K-IFRS 1036. 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 the Company 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.

**(4) Joint arrangements**

A joint arrangement is an arrangement of which two or more parties have joint control. Joint control is the contractually agreed sharing of control of an arrangement, which exists only when decisions about the relevant activities require the unanimous consent of the parties sharing control. Joint arrangements are classified into two types - joint operations and joint ventures. A joint operation is a joint arrangement whereby the parties that have joint control of the arrangement (i.e. joint operators) have rights to the assets, and obligations for the liabilities, relating to the arrangement. A joint venture is a joint arrangement whereby the parties that have joint control of the arrangement (i.e. joint ventures) have rights to the net assets of the arrangement.

If the Company is a joint operator, the Company is to recognize and measure the assets and liabilities (and recognize the related revenues and expenses) in relation to its interest in the arrangement in accordance with relevant K-IFRS applicable to the particular assets, liabilities, revenues and expenses. If the joint arrangement is a joint venture, the Company is to account for that investment using the equity method accounting in accordance with K-IFRS 1028, Investment in Associates and Joint Ventures (refer to note 3.(3)), except when the Company is applying K-IFRS 1105, Non-current Assets Held for Sale .

**(5) Non-current assets held for sale**

Non-current assets and disposal groups are classified as held for sale if their carrying amount will be recovered principally through a sale transaction rather than through continuing use. This condition is regarded as met only when the sale is highly probable and the non-current asset (or disposal group) is available for immediate sale in its present condition. Management must be committed to the sale, which should be expected to qualify for recognition as a completed sale within one year from the date of classification.

When the Company is committed to a sale plan involving loss of control of a subsidiary, all of the assets and liabilities of that subsidiary are classified as held for sale when the criteria described above are met, regardless of whether the Company will retain a non-controlling interest in its former subsidiary after the sale.

Non-current assets (and disposal groups) classified as held for sale are measured at the lower of their previous carrying amount and fair value less costs to sell.

**(6) Goodwill**

The Company measures goodwill which is acquired in a business combination at the amount recognized at the date on which it obtains control of the acquiree (acquisition date) less any accumulated impairment losses. Goodwill acquired in a business combination is allocated to each CGU that is expected to benefit from the synergies arising from the business acquired.

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KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**3. Significant Accounting Policies, Continued**

**(6) Goodwill, continued**

The Company assesses at the end of each reporting period whether there is any indication that an asset may be impaired. An impairment loss is recognized if the carrying amount of an asset or a CGU exceeds its recoverable amount. Impairment losses are recognized in profit or loss.

Any impairment identified at the CGU level will first reduce the carrying value of goodwill and then be used to reduce the carrying amount of the other assets in the CGU on a pro rata basis. Except for impairment losses in respect of goodwill which are never reversed, an impairment loss is reversed if there has been a change in the estimates used to determine the recoverable amount. An impairment loss is reversed only to the extent that the asset's carrying amount does not exceed the carrying amount that would have been determined, net of depreciation or amortization, if no impairment loss had been recognized.

**(7) Revenue recognition**

Revenue from the sale of goods, rendering of services or use of the Company assets is measured at the fair value of the consideration received or receivable, net of returns, trade discounts and volume rebates, which are recognized as a reduction of revenue. Revenue is recognized when the amount of revenue can be measured reliably and it is probable that the economic benefits associated with the transaction will flow to the Company.

**(i) Sales of goods**

The Korean government approves the utility rates charged to customers by 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 recognize revenue from 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 of electricity for residential, commercial, general, etc. The differences between the current month's estimated amount and actual (meter-read) amount, is adjusted for (trued-up) during the subsequent month.

**(ii) Sales of other services**

Revenue from services rendered is recognized in profit or loss in proportion to the stage of completion of the transaction at the reporting date. The stage of completion is assessed by reference to surveys of work performed or services performed to date as a percentage of total services to be performed or the proportion that costs incurred to date bear to the estimated total costs of the transaction or other methods that reliably measures the services performed.

(iii) Dividend income and interest income

Dividend income is recognized in profit or loss on the date that the Company's right to receive payment is established, which in the case of quoted securities is the ex-dividend date.

Interest income is recognized as it accrues in profit or loss, using the effective interest method. 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.

(iv) Rental income

The Company's policy for recognition of revenue from operating leases is described in note 3. (9) below.

(v) 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 the 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 K-IFRS 2118, 'Transfer of Assets from Customers', when the Company receives an item of property, equipment, or cash for constructing or acquiring an item of property or equipment, in exchange for supplying electricity to customers. The Company defers the amounts received, which are subsequently recognized as revenue on a straight-line basis over the estimated service period which does not exceed the transferred asset's useful life.



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KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**3. Significant Accounting Policies, Continued**

**(8) Construction services revenue**

The Company provides services related to the construction of power plants related to facilities of its customers, mostly in foreign countries.

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 when it is probable the revenue will be realized. 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 presented 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 presented as the amounts due to customers for contract work. Amounts received before the related work is performed are included in the consolidated statements of financial position, as a liability, as advance received. Amounts billed for work performed but not yet paid by the customer are included in the consolidated statements of financial position as accounts and other receivables.

**(9) Leases**

The Company classifies and accounts for leases as either a finance or operating lease, depending on the terms. Leases where the Company assumes substantially all of the risks and rewards of ownership are classified as finance leases. All other leases are classified as operating leases.

(i) 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.

(ii) 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.

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KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**3. Significant Accounting Policies, Continued**

**(9) Leases, continued**

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.

(iii) Determining whether an arrangement contains a lease

At inception of an arrangement, the Company determines whether the arrangement is or contains a lease.

At inception or on reassessment of an arrangement that contains a lease, the Company separates payments and other consideration required by the arrangement into those for the lease and those for other elements on the basis of their relative fair values. If the Company concludes for a finance lease that it is impracticable to separate the payments reliably, then an asset and a liability are recognized at an amount equal to the fair value of the underlying asset.

**(10) Foreign currencies**

Transactions in foreign currencies are translated to the respective functional currencies of the Company entities at exchange rates at the dates of the transactions. Monetary assets and liabilities denominated in foreign currencies are retranslated to the functional currency using the reporting date's exchange rate. Non-monetary assets and liabilities denominated in foreign currencies that are measured at fair value are retranslated to the functional currency at the exchange rate at the date that the fair value was determined.

Exchange differences are recognized in profit or loss in the period in which they arise except for:

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;

Exchange differences on transactions entered into in order to hedge certain foreign currency risks (refer to note 3.(25) Derivative financial instruments, including hedge accounting); and

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 financial statements, the assets and liabilities of the Company's foreign operations are expressed in Korean won 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.

When a foreign operation is disposed of, the relevant amount in the translation is transferred to profit or loss as part of the gain or loss on disposal.

#### **(11) Borrowing costs**

The Company capitalizes borrowing costs directly attributable to the acquisition, construction or production of a qualifying asset as part of the cost of that asset. Other borrowing costs are recognized in expense as incurred. A qualifying asset is an asset that requires a substantial period of time to get ready for its 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.

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KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**3. Significant Accounting Policies, Continued**

**(12) Government grants**

Government grants are not recognized unless there is reasonable assurance that the Company will comply with the grant's conditions and that the grant will be received.

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.

(i) If the Company received grants related to assets

Government grants whose primary condition is that the Company purchase, construct or otherwise acquire long-term assets are deducted in calculating the carrying amount of the asset. The grant is recognized in profit or loss over the life of a depreciable asset as a reduced depreciation expense.

(ii) If the Company received grants related to income

Government grants which are intended to compensate the Company for expenses incurred are recognized as other income (government grants) in profit or loss over the periods in which the Company recognizes the related costs as expenses.

**(13) Employee benefits**

When an employee has rendered service to the Company during a period, the Company recognizes the contribution payable to a defined contribution plan in exchange for that service as a liability (accrued expense).

For defined benefit pension plans and other post-employment benefits, the net periodic pension expense is actuarially determined by Pension Actuarial System developed by independent actuaries using the projected unit credit method. 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. However, if there is not a deep market, market yields on government bonds are used.

Net defined benefit liability's measurement is composed of actuarial gains and losses, return on plan assets excluding net interest on net defined benefit liability, and any change in the effect of the asset ceiling, excluding net interest, which will immediately recognized in other comprehensive income. The actuarial gains or losses recognized in other

comprehensive income which will not be reclassified into net profit or loss for later periods are immediately recognized in retained earnings. Past service cost will be recognized as expenses upon the earlier of the date of change or reduction to the plan, or the date of recognizing termination benefits.

The retirement benefit obligation recognized in the 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.

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**KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES**

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**3. Significant Accounting Policies, Continued**

**(14) Income taxes**

Income tax expense comprises current and deferred tax. Current tax and deferred tax are recognized in profit or loss except to the extent that it relates to a business combination, or items recognized directly in equity or in other comprehensive income.

(i) Current tax

Current tax is the expected tax payable or receivable on the taxable profit or loss for the year, using tax rates enacted or substantively enacted at the end of the reporting period and any adjustment to tax payable in respect of previous years. The taxable profit is different from the accounting profit for the period since the taxable profit is calculated excluding the temporary differences, which will be taxable or deductible in determining taxable profit (tax loss) of future periods, and non-taxable or non-deductible items from the accounting profit.

(ii) Deferred tax

Deferred tax is recognized, using the asset-liability method, in respect of temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts used for taxation purposes. A deferred tax liability is recognized for all taxable temporary differences. A deferred tax asset is recognized for all deductible temporary differences to the extent that it is probable that taxable profit will be available against which they can be utilized. However, deferred tax is not recognized for the following temporary differences: taxable temporary differences arising on the initial recognition of goodwill, or the initial recognition of assets or liabilities in a transaction that is not a business combination and that affects neither accounting profit or loss nor taxable income.

The measurement of deferred tax liabilities and deferred tax 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. Deferred tax assets or deferred tax liabilities on investment properties measured at fair value, unless any contrary evidence exists, are measured using the assumption that the carrying amount of the property will be recovered entirely through sale.

The Company recognizes a deferred tax liability for all taxable temporary differences associated with investments in subsidiaries, associates, and interests in joint ventures, except to the extent that the Company is able to control the timing of the reversal of the temporary difference and it is probable that the temporary difference will not reverse in the foreseeable future. The Company recognizes a deferred tax asset for all deductible temporary differences arising from investments in subsidiaries and associates, to the extent that it is probable that the temporary difference will reverse in the foreseeable future and taxable profit will be available against which the temporary difference can be

utilized.

The carrying amount of a deferred tax asset is reviewed at the end of each reporting period and reduces the carrying amount to the extent that it is no longer probable that sufficient taxable profit will be available to allow the benefit of part or all of that deferred tax asset to be utilized.

Deferred tax assets and liabilities are measured at the tax rates that are expected to apply to the period when the asset is realized or the liability is settled, 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 deferred tax 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.

Deferred tax assets and liabilities are offset only if there is a legally enforceable right to offset the related current tax liabilities and assets, and they relate to income taxes levied by the same tax authority and they intend to settle current tax liabilities and assets on a net basis.

(iii) 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.



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****3. Significant Accounting Policies, Continued****(15) Property, plant and equipment**

Property, plant and equipment are initially measured at cost and after initial recognition, are carried at cost less accumulated depreciation and accumulated impairment losses. The cost of property, plant and equipment includes expenditures arising directly from the construction or acquisition of the asset, 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 and 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 the carrying amount of property, plant and equipment at cost or, if appropriate, as separate items if it is probable that future economic benefits associated with the item will flow to the Company and the cost of the item can be measured reliably. The carrying amount of the replaced part is derecognized. The costs of the day-to-day servicing are recognized in profit or loss as incurred.

Property, plant and equipment, except for land, are depreciated on a straight-line basis over estimated useful lives that appropriately reflect the pattern in which the asset's future economic benefits are expected to be consumed. For loaded nuclear fuel related to long-term raw materials and spent nuclear fuels related to asset retirement costs, the Company uses the production method to measure and recognizes as expense the economic benefits of the assets.

The estimated useful lives of the Company's property, plant and equipment are as follows:

	<b>Useful lives (years)</b>
Buildings	8 ~ 40
Structures	8 ~ 50
Machinery	2 ~ 32
Vehicles	3 ~ 8
Loaded heavy water	30
Asset retirement costs	18, 30, 40, 60
Finance lease assets	6 ~ 32
Ships	9
Others	4 ~ 15

A component that is significant compared to the total cost of property, plant and equipment is depreciated over its separate useful life.

Depreciation methods, residual values and useful lives of property, plant and equipment are reviewed at the end of each reporting period and if change is deemed appropriate, it is treated as a change in accounting estimate. Accordingly, useful lives of certain machinery were changed during 2016 and as a result, depreciation expenses increased by ₩160,985 million for the year ended December 31, 2016. Depreciation expenses are expected to increase by ₩130,514 million and ₩91,197 million for the years ending December 31, 2017 and 2018, respectively, and to decrease by ₩382,696 million for the years after December 31, 2018.

Property, plant and equipment are 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.

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**KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES**

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**3. Significant Accounting Policies, Continued**

**(16) Investment property**

Property held for the purpose of earning rentals or benefiting from capital appreciation is classified as investment property. Investment property is initially measured at its cost. Transaction costs are included in the initial measurement. Subsequently, investment property is carried at depreciated cost less any accumulated impairment losses.

Subsequent costs are recognized in the carrying amount of investment property at cost or, if appropriate, as separate items if it is probable that future economic benefits associated with the item will flow to the Company and the cost of the item can be measured reliably. The carrying amount of the replaced part is derecognized. The costs of the day-to-day servicing are recognized in profit or loss as incurred.

Investment property except for land, are depreciated on a straight-line basis over 8 ~ 40 years as estimated useful lives.

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.

**(17) Intangible assets**

**(i) 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.

**(ii) Research and development**

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.

Internally-generated intangible assets are reported at cost less accumulated amortization and accumulated impairment losses.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****3. Significant Accounting Policies, Continued****(17) Intangible assets, continued**

The estimated useful lives and amortization methods of the Company's intangible assets with finite useful lives are as follows:

	Useful lives (years)	Amortization methods
Usage rights for donated assets	10 ~ 20	Straight
Software	4, 5	Straight
Industrial rights	5, 10	Straight
Development expenses	5	Straight
Leasehold rights	10	Straight
Others	3 ~ 50 or Indefinite	Straight
Mining right		Unit of production

**(iii) 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.

**(iv) 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 are measured as the difference between the net disposal proceeds and the carrying amount of the asset and are recognized in income or loss when the asset is derecognized.

**(18) Greenhouse gas emissions rights (allowances) and obligations**

In connection with Enforcement of Allocation and Trading of Greenhouse Gas Emissions Allowances, the Company applies the following accounting policies for greenhouse gas emissions rights and obligations.

(i) Greenhouse gas emissions rights

Greenhouse gas emissions rights consist of the allowances received free of charge from the government and the ones purchased. The cost of the greenhouse gas emissions rights includes expenditures arising directly from the acquisition and any other costs incurred during normal course of the acquisition.

Greenhouse gas emissions rights are held by the Company to fulfill the legal obligation and recorded as intangible assets. To the extent that the portion to be submitted to the government within one year from the end of reporting period, the greenhouse gas emissions rights are classified as current assets. Greenhouse gas emissions rights recorded as intangible assets are initially measured at cost and substantially remeasured at cost less accumulated impairment losses.

Greenhouse gas emissions rights are derecognized on submission to the government or when no future economic benefits are expected from its use or disposal.

(ii) Greenhouse gas emissions obligations

Greenhouse gas emissions obligations are the Company's present legal obligation to submit the greenhouse gas emissions allowances to the government and recognized when an outflow of resources is probable and a reliable estimate can be made of the amount of the obligation. Greenhouse gas emissions obligations are measured as the sum of the carrying amount of the allocated rights that will be submitted to the government and the best estimate of expenditure required to settle the obligation at the end of the reporting period for any excess emission.

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KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**3. Significant Accounting Policies, Continued**

**(19) Impairment of non-financial assets other than goodwill**

At the end of each reporting period, the Company reviews the carrying amounts of its tangible and intangible assets with definite useful lives 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 profit 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, to the extent 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 profit 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.

**(20) Inventories**

Inventories are measured at the lower of cost and net realizable value. Cost of inventories for inventories in transit are measured by using specific identification method. Cost of inventories, except for those 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 is the estimated selling price in the ordinary course of business, less the estimated costs of completion and selling expenses. The amount of any write-down of inventories to net realizable value and all losses of inventories are recognized as an expense in the period the write-down or loss occurs. The amount of any reversal of any write-down of inventories, arising from an increase in net realizable value, are recognized as a reduction in the amount of inventories recognized as an expense in the period in which the reversal occurs.

**(21) Provisions**

Provisions are recognized when the Company has a present legal or constructive obligation as a result of a past event, it is probable that an outflow of resources embodying economic benefits will be required to settle the obligation and a reliable estimate can be made of the amount of the obligation.

The risks and uncertainties that inevitably surround many events and circumstances are taken into account in reaching the best estimate of a provision. Where the effect of the time value of money is material, provisions are determined at the present value of the expected future cash flows.



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**KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES**

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**3. Significant Accounting Policies, Continued**

**(21) Provisions, continued**

Where some or all of the expenditures required to settle a provision are expected to be reimbursed by another party, the reimbursement shall be recognized when, and only when, it is virtually certain that reimbursement will be received if the entity settles the obligation. The reimbursement shall be treated as a separate asset.

Provisions are reviewed at the end of each reporting period and adjusted to reflect the current best estimates. If it is no longer probable that an outflow of resources embodying economic benefits will be required to settle the obligation, the provision is reversed.

(i) Provision for employment benefits

The Company determines the provision for employment benefits as the incentive payments based on the results of the individual performance evaluation or management assessment.

(ii) Provision for decommissioning costs of nuclear power plants

The Company records the fair value of estimated decommissioning costs as a liability in the period in which the Company incurs a legal obligation associated with retirement of long-lived assets that result from acquisition, construction, development and/or normal use of the assets. 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.

(iii) Provision for disposal of spent nuclear fuel

Under the Radioactive Waste Management Act, the Company is levied to pay the spent nuclear fuel fund for the management of spent nuclear fuel. The Company recognizes the provision of present value of the payments.

(iv) Provision for low and intermediate radioactive wastes

Under the Radioactive Waste Management Act, the Company recognizes the provision for the disposal of low and intermediate radioactive wastes in best estimate of the expenditure required to settle the present obligation.

(v) Provision for Polychlorinated Biphenyls ( PCBs )

Under the regulation of Persistent Organic Pollutants Management Act, enacted in 2007, the Company is required to remove 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.

(vi) Provisions for power plant regional support program

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. The Company recognizes the provision in relation to power plant regional support program.

(vii) Provisions for transmission and transformation facilities-neighboring areas support program

The Company has present obligation to conduct transmission and transformation facilities-neighboring areas support program under Act on assistance to transmission and transformation facilities-neighboring areas. The Company recognizes the provision of estimated amount to fulfill the obligation.

(viii) Renewable Portfolio Standard ( RPS ) provisions

RPS program is recognized for the governmental regulations to require the production of energies from renewable energy sources such as solar, wind and biomass.

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**KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES**

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**3. Significant Accounting Policies, Continued**

**(22) Non-derivative financial assets**

The Company recognizes and measures non-derivative financial assets by the following four categories: financial assets at fair value through profit or loss, held-to-maturity investments, loans and receivables and available-for-sale financial assets. The Company recognizes financial assets in the statement of financial position when the Company becomes a party to the contractual provisions of the instrument. Upon initial recognition, non-derivative financial assets are measured at their fair value plus, in the case of a financial asset not at fair value through profit or loss, transaction costs that are directly attributable to the asset's acquisition or issuance.

A regular way purchase or sale of financial assets shall be recognized and derecognized, as applicable, using trade date accounting or settlement date accounting. A regular way purchase or sale is a purchase or sale of a financial asset under a contract whose terms require delivery of the asset within the time frame established generally by regulation or convention in the marketplace concerned.

(i) 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 financial assets at fair value through profit or loss.

(ii) Financial assets at fair value through profit or loss (FVTPL)

A financial asset is classified as financial assets are classified at fair value through profit or loss if it is held for trading or is designated as such upon initial recognition. Upon initial recognition, transaction costs are recognized in profit or loss when incurred. A financial assets its acquired principally for the purpose of selling it in the near term are classified as a short-term financial assets held for trading and also all the derivatives including an embedded derivate that is not designated and effective as a hedging instrument are classified at the short-term trading financial asset as well. Financial assets at fair value through profit or loss are measured at fair value, and changes therein are recognized in profit or loss.

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 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 financial assets at fair value through profit or loss upon initial recognition if:

Such designation eliminates or significantly reduces a measurement or recognition inconsistency that would otherwise arise; or

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

It forms a part of a contract containing one or more embedded derivatives, and with K-IFRS 1039, Financial Instruments: Recognition and Measurement, permits the entire combined contract (asset or liability) to be designated as at financial assets at fair value through profit or loss.

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**KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES**

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**3. Significant Accounting Policies, Continued**

**(22) Non-derivative financial assets, continued**

Financial assets at fair value through profit or loss are stated at fair value, with any gains or losses arising on re-measurement 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.

(iii) Held-to-maturity investments

A non-derivative financial asset with a fixed or determinable payment and fixed maturity, for which the Company has the positive intention and ability to hold to maturity, are classified as held-to-maturity investments. Subsequent to initial recognition, held-to-maturity investments are measured at amortized cost using the effective interest method.

(iv) Available-for-sale financial assets

Available-for-sale financial assets are those non-derivative financial assets that are designated as available-for-sale or are not classified as financial assets at fair value through profit or loss, held-to-maturity investments or loans and receivables.

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.

When a financial asset is derecognized or impairment losses are recognized, the cumulative gain or loss previously recognized in other comprehensive income is reclassified from equity to profit or loss.

Dividends on an available-for-sale equity instrument are recognized in profit or loss when the Company's right to receive payment is established.

The fair value of available-for-sale 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.

(v) Loans and receivables

Loans and receivables are financial assets with fixed or determinable payments that are not quoted in an active market. Subsequent to initial recognition, loans and receivables are measured at amortized cost using the effective interest method except for loans and receivables of which the effect of discounting is immaterial.

(vi) Impairment of financial assets

Financial assets, other than those at financial assets at fair value through profit or loss, 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 available-for-sale financial asset, a significant or prolonged decline in the fair value of the security below its cost is considered to be objective evidence of impairment in addition to the criteria mentioned below.

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.

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**KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES**

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**3. Significant Accounting Policies, Continued**

**(22) Non-derivative financial assets, continued**

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 and, 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 available-for-sale 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 profit 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 available-for-sale equity securities, impairment losses previously recognized in profit or loss are not reversed through profit or loss. Any increase in fair value subsequent to an impairment loss is recognized in other comprehensive income. In respect of available-for-sale debt securities, impairment losses are subsequently reversed through profit 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.

(vii) De-recognition of financial assets

The Company derecognizes a financial asset when the contractual rights to the cash flows from the asset expire, or it transfers the rights to receive the contractual cash flows on the financial asset in a transaction in which substantially all the risks and rewards of ownership of the financial asset are transferred. Any interest in transferred financial assets that is created or retained by the Company is recognized as a separate asset or liability. If the Company retains substantially all the risks and rewards of ownership of the transferred financial assets, the Company continues to recognize the transferred financial assets and recognizes financial liabilities for the consideration received.

On de-recognition 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.



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KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**3. Significant Accounting Policies, Continued**

**(22) Non-derivative financial assets, continued**

On de-recognition 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.

**(23) Non-derivative financial liabilities and equity instruments issued by the Company**

(i) 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.

(ii) 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.

(iii) Financial liabilities

Financial liabilities are recognized when the Company becomes a party to the contractual provisions of the instruments. Financial liabilities are initially measured at fair value. Transaction cost that are directly attributable to the issue of financial liabilities are added to or deducted from the fair value of the financial liabilities, as appropriate,

on initial recognition. Transaction cost directly attributable to acquisition of financial liabilities at fair value through profit or loss are recognized immediately in profit or loss.

Financial liabilities are classified as either financial liabilities at fair value through profit or loss or other financial liabilities.

(iv) Financial liabilities at fair value through profit or loss (FVTPL)

Financial liabilities are classified as at financial liabilities at fair value through profit or loss when the financial liability is either held for trading or it is designated as financial liabilities at fair value through profit or loss.

A financial liability is classified as held for trading if:

It has been acquired principally for the purpose of repurchasing 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 that is not designated and effective as a hedging instrument.

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KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**3. Significant Accounting Policies, Continued**

**(23) Non-derivative financial liabilities and equity instruments issued by the Company, continued**

A financial liability other than a financial liability 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

The financial liability forms part of a Company 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

It forms part of a contract containing one or more embedded derivatives, and K-IFRS 1039, Financial Instruments: Recognition and Measurement, permits the entire combined contract (asset or liability) to be designated as at FVTPL.

Financial liabilities at fair value through profit or loss are stated at fair value, with any gains or losses arising on re-measurement 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.

(v) 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.

(vi) 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 K-IFRS 1037, Provisions, Contingent Liabilities and Contingent Assets; or (b) the amount initially recognized less, cumulative amortization recognized in accordance with K-IFRS 1018, Revenue.

(vii) De-recognition 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.

**(24) Service Concession Arrangements**

The Company recognizes revenues from construction services and operating services related to service concession arrangements in accordance with K-IFRS 1011, Construction Contracts and K-IFRS 1018, Revenue, respectively. If the Company performs more than one service under a single contract or arrangement, consideration received or receivable is allocated by reference to the relative fair values of the services delivered, when the amounts are separately identifiable.

The Company recognizes a financial asset to the extent that it has an unconditional contractual right to receive cash or another financial asset for the construction services and an intangible asset to the extent that it receives a right (license) to charge users of the public service. Borrowing costs attributable to the arrangement are recognized as an expense in the period in which they are incurred unless the Company has a contractual right to receive an intangible asset (a right to charge users of the public service). In this case, borrowing costs attributable to the arrangement are capitalized during the construction phase of the arrangement.

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KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**3. Significant Accounting Policies, Continued**

**(25) Derivative financial instruments, including hedge accounting**

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. Subsequent to initial recognition, derivatives are measured at fair value.

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.

(i) Separable 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.

(ii) 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 or 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.

(iii) 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.

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**KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES**

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**3. Significant Accounting Policies, Continued**

**(24) Derivative financial instruments, including hedge accounting, continued**

(iv) 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. 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.

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**KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES**

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**4. Segment, Geographic and Other Information**

**(1) Segment determination and explanation of the measurements**

The Company's operating segments are its business components that generate discrete financial information that is reported to and regularly reviewed by the Company's the chief operating decision maker, the Chief Executive Officer, for the purpose of resource allocation and assessment of segment performance. The Company's reportable segments are Transmission and distribution, Electric power generation (Nuclear), Electric power generation (Non-nuclear), Plant maintenance & engineering service and Others; others mainly represent the business unit that manages the Company's foreign operations.

Segment operating profit (loss) is determined the same way that consolidated operating profit is determined under K-IFRS without any adjustment for corporate allocations. The accounting policies used by each segment are consistent with the accounting policies used in the preparation of the consolidated financial statements. Segment assets and liabilities are determined based on separate financial statements of the entities instead of on a consolidated basis. There are various transactions between the reportable segments, including sales of property, plant and equipment and so on, that are conducted on an arms-length basis at market prices that would be applicable to an independent third-party. For subsidiaries which are in a different segment from that of its immediate parent company, their carrying amount in separate financial statements is eliminated in the consolidating adjustments in the tables below. In addition, consolidation adjustments in the table below include adjustments of the amount of investment in associates and joint ventures from the cost basis amount reflected in segment assets to that determined using equity method in the consolidated financial statements.



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****4. Segment, Geographic and Other Information, Continued****(2) Financial information of the segments for the years ended December 31, 2016 and 2015, respectively, are as follows:***In millions of won*

Segment	2016							
	Total segment revenue	Intersegment revenue	Revenue from external customers	Operating profit	Depreciation and amortization	Interest income	Interest expense	Profit related associates, joint ventures and subsidiaries
Transmission and distribution	₩ 60,289,581	1,890,489	58,399,092	4,881,540	3,226,700	80,882	844,200	(128,402)
Electric power generation (Nuclear)	11,168,579	11,129,385	39,194	3,819,778	3,130,820	33,111	474,590	(1,082)
Electric power generation (Non-nuclear)	21,394,223	20,561,044	833,179	3,211,318	2,523,306	24,171	359,607	(8,342)
Plant maintenance & engineering service	2,618,388	2,190,207	428,181	196,989	98,843	10,672	2,156	478
Others	567,836	77,098	490,738	89,301	26,817	115,928	97,926	
Consolidation adjustments	(35,848,223)	(35,848,223)		(197,327)	(45,498)	(22,986)	(25,611)	
	₩ 60,190,384		60,190,384	12,001,599	8,960,988	241,778	1,752,868	(137,348)

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****4. Segment, Geographic and Other Information, Continued****(2) Financial information of the segments for the years ended December 31, 2016 and 2015, respectively, are as follows, continued:***In millions of  
won*

Segment	2015							
	Total segment revenue	Intersegment revenue	Revenue from external customers	Operating profit (loss)	Depreciation and amortization	Interest income	Interest expense	Profit related associates, joint ventures and subsidiaries
Transmission and distribution	₩ 58,540,389	1,230,975	57,309,414	4,425,361	2,859,037	132,809	1,092,594	220,406
Electric power generation (Nuclear)	10,642,352	10,596,189	46,163	3,784,990	3,070,828	24,612	532,490	(595)
Electric power generation (Non-nuclear)	21,469,345	20,906,081	563,264	2,732,497	2,337,353	22,171	319,647	(10,686)
Plant maintenance & engineering service	2,533,887	2,016,699	517,188	285,786	85,662	12,293	542	(1,746)
Others	672,250	150,557	521,693	42,629	27,491	108,104	127,684	
Consolidation adjustments	(34,900,501)	(34,900,501)		75,469	(38,987)	(58,404)	(57,273)	
	₩ 58,957,722		58,957,722	11,346,732	8,341,384	241,585	2,015,684	207,379

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****4. Segment, Geographic and Other Information, Continued****(3) Information related to segment assets and segment liabilities as of and for the years ended December 31, 2016 and 2015 are as follows:***In millions of won*

Segment	2016			
	Segment assets	Investments in associates and joint ventures	Acquisition of non-current assets	Segment liabilities
Transmission and distribution	₩ 105,321,129	4,121,462	6,345,004	49,854,420
Electric power generation (Nuclear)	52,782,915	15,384	1,945,610	27,366,938
Electric power generation (Non-nuclear)	47,427,642	1,320,203	3,508,313	26,205,049
Plant maintenance & engineering service	3,106,909	53,399	180,715	1,218,047
Others	7,423,132		365,470	2,761,262
Consolidation adjustments	(38,224,685)		(191,901)	(2,619,219)
<b>Consolidated totals</b>	<b>₩ 177,837,042</b>	<b>5,510,448</b>	<b>12,153,211</b>	<b>104,786,497</b>

*In millions of won*

Segment	2015			
	Segment assets	Investments in associates and joint ventures	Acquisition of non-current assets	Segment liabilities
Transmission and distribution	₩ 106,306,250	4,338,888	5,885,919	53,125,589
Electric power generation (Nuclear)	51,043,890	16,385	2,647,304	27,386,113
Electric power generation (Non-nuclear)	44,453,545	1,283,432	5,063,195	25,587,071
Plant maintenance & engineering service	2,990,862	54,825	249,627	1,172,351

Others	5,962,546		144,846	2,312,658
Consolidation adjustments	(35,499,734)		146,942	(2,268,898)
Consolidated totals	₩ 175,257,359	5,693,530	14,137,833	107,314,884

**(4) Geographic information**

The following information on revenue from external customers and non-current assets is determined by the location of the customers and the assets:

<i>In millions of won</i> Geographical unit	Revenue from external customers		Non-current assets (*2)	
	2016	2015	2016	2015
Domestic	₩ 55,737,308	54,727,071	148,297,677	143,788,043
Overseas (*1)	4,453,076	4,230,651	4,474,699	4,526,395
	₩ 60,190,384	58,957,722	152,772,376	148,314,438

(\*1) Middle East and other Asian countries make up the majority of overseas revenue and non-current assets.

(\*2) Amount excludes financial assets and deferred tax assets.

**(5) Information on significant customers**

There is no individual customer comprising more than 10% of the Company's revenue for the years ended December 31, 2016 and 2015.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****5. Classification of Financial Instruments****(1) Classification of financial assets as of December 31, 2016 and 2015 are as follows:***In millions of won*

	Financial assets		2016			Total
	at fair value through profit or loss	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	₩	3,051,353				3,051,353
<b>Current financial assets</b>						
Held-to-maturity investments				114		114
Derivative assets	79,709				113,574	193,283
Other financial assets		2,478,592				2,478,592
Trade and other receivables		7,788,876				7,788,876
	79,709	13,318,821		114	113,574	13,512,218
<b>Non-current assets</b>						
<b>Non-current financial assets</b>						
Available-for-sale financial assets			1,014,732			1,014,732
Held-to-maturity investments				3,130		3,130
Derivative assets	287,768				300,323	588,091
Other financial assets		1,051,541				1,051,541
Trade and other receivables		1,903,515				1,903,515
	287,768	2,955,056	1,014,732	3,130	300,323	4,561,009
	₩ 367,477	16,273,877	1,014,732	3,244	413,897	18,073,227

*In millions of won***2015****Total**

	Financial assets at fair value through profit or loss	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	₩	3,783,065				3,783,065
<b>Current financial assets</b>						
Held-to-maturity investments				381		381
Derivative assets	1,498			95,759		97,257
Other financial assets		5,237,983				5,237,983
Trade and other receivables		7,473,548				7,473,548
	1,498	16,494,596		381	95,759	16,592,234
<b>Non-current assets</b>						
<b>Non-current financial assets</b>						
Available-for-sale financial assets			584,479			584,479
Held-to-maturity investments				3,242		3,242
Derivative assets	253,510			266,383		519,893
Other financial assets		1,387,940				1,387,940
Trade and other receivables		1,798,419				1,798,419
	253,510	3,186,359	584,479	3,242	266,383	4,293,973
	₩ 255,008	19,680,955	584,479	3,623	362,142	20,886,207

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

December 31, 2016

**5. Classification of Financial Instruments, Continued**

(2) Classification of financial liabilities as of December 31, 2016 and 2015 are as follows:

*In millions of won*

	<b>2016</b>			
	<b>Financial liabilities at fair value through profit or loss</b>	<b>Financial liabilities recognized and amortized cost</b>	<b>Derivative liabilities (using hedge accounting)</b>	<b>Total</b>
<b>Current liabilities</b>				
Borrowings	₩	1,115,521		1,115,521
Debt securities		7,823,557		7,823,557
Derivative liabilities	3,251			3,251
Trade and other payables		5,585,411		5,585,411
	3,251	14,524,489		14,527,740
<b>Non-current liabilities</b>				
Borrowings		1,773,891		1,773,891
Debt securities		42,926,236		42,926,236
Derivative liabilities	18,278		117,157	135,435
Trade and other payables		3,558,175		3,558,175
	18,278	48,258,302	117,157	48,393,737
	₩ 21,529	62,782,791	117,157	62,921,477

*In millions of won*

	<b>2015</b>			
	<b>Financial liabilities at fair value through profit or loss</b>	<b>Financial liabilities recognized and amortized cost</b>	<b>Derivative liabilities (using hedge accounting)</b>	<b>Total</b>
<b>Current liabilities</b>				

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Borrowings	₩	1,144,027		1,144,027
Debt securities		6,702,926		6,702,926
Derivative liabilities	9,487		758	10,245
Trade and other payables		4,735,697		4,735,697
	9,487	12,582,650	758	12,592,895
<b>Non-current liabilities</b>				
Borrowings		1,932,259		1,932,259
Debt securities		48,974,287		48,974,287
Derivative liabilities	39,524		116,741	156,265
Trade and other payables		3,718,435		3,718,435
	39,524	54,624,981	116,741	54,781,246
	₩ 49,011	67,207,631	117,499	67,374,141



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****5. Classification of Financial Instruments, Continued**

**(3) Classification of comprehensive income from financial instruments for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>		<b>2016</b>	<b>2015</b>
Cash and cash equivalents	Interest income	₩ 61,380	54,687
Available-for-sale financial assets	Dividends income	9,446	14,069
	Impairment loss on available-for-sale financial assets	(86,703)	(84,370)
	Gain (loss) on disposal of available-for-sale financial assets	1,473	(3,004)
	Interest income		29
Held-to-maturity investments	Interest income	97	99
Loans and receivables	Interest income	25,106	28,586
Trade and other receivables	Interest income	102,237	100,771
Short-term financial instruments	Interest income	45,763	46,921
Long-term financial instruments	Interest income	7,195	10,492
Financial assets at fair value through profit or loss	Gain on valuation of derivatives	113,671	220,285
	Gain (loss) on transaction of derivatives	(8,039)	8,605
Derivative assets (using hedge accounting)	Gain on valuation of derivatives (profit or loss)	145,458	244,020
	Gain (loss) on valuation of derivatives (equity, before tax) (*)	50,047	(12,572)
	Gain (loss) on transaction of derivatives	(13,994)	2,818
Financial liabilities carried at amortized cost	Interest expense of borrowings and debt securities	(1,202,065)	(1,392,477)
	Loss on retirement of financial liabilities	(23,000)	(33)
	Interest expense of trade and other payables	(68,375)	(84,527)
	Interest expense of others	(482,428)	(538,680)
	Loss on foreign currency transactions and translations	(290,485)	(708,178)

Financial liabilities at fair value through profit or loss	Gain on valuation of derivatives	23,225	35,312
	Gain on transaction of derivatives	17,045	107,454
Derivative liabilities (using hedge accounting)	Gain on valuation of derivatives (profit or loss)	5,714	93,914
	Gain (loss) on valuation of derivatives (equity, before tax) (*)	(3,297)	9,728
	Loss on transaction of derivatives	(51,450)	(4,288)

(\*) Items are included in other comprehensive income or loss. All other income and gain listed above are included in finance income, and all expense and losses listed above are included in finance expenses in the consolidated statements of comprehensive income.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****6. Restricted Deposits**

Restricted deposits as of December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>		<b>2016</b>	<b>2015</b>
Cash and cash equivalents	Escrow accounts	₩ 91	4,828
	Deposits for government project	16,457	5,839
	Collateral provided for borrowings	80,327	6,839
	Collateral provided for lawsuit	241	641
	Deposits for transmission regional support program	2,137	204
	Pledge		740
Non-current available-for-sale financial asset	Decommissioning costs of nuclear power plants	437,015	
Short-term financial instruments	Bidding guarantees	118	
	Restriction on withdrawal related to win-win growth program for small and medium enterprises	33,000	18,000
Other current receivables	Deposit for lawsuit	16,000	
Long-term financial instruments	Guarantee deposits for checking account	2	2
	Guarantee deposits for banking accounts at overseas branches	342	333
	Decommissioning costs of nuclear power plants	214,121	652,700
	Collateral provided for borrowings		20
	Funds for developing small and medium enterprises (*1)	200,000	100,000
		₩ 999,851	790,146

(\*1)

Deposits for small and medium enterprise at IBK for construction of Bitgaram Energy Valley and support for the high potential businesses as of December 31, 2016.

**7. Cash and Cash Equivalents**

**Cash and cash equivalents as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Cash	₩ 119	109
Other demand deposits	1,725,785	1,309,396
Short-term deposits classified as cash equivalents	120,594	374,575
Short-term investments classified as cash equivalents	1,204,855	2,098,985
	₩ 3,051,353	3,783,065

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****8. Trade and Other Receivables****(1) Trade and other receivables as of December 31, 2016 and 2015 are as follows:***In millions of won*

		<b>2016</b>		
	<b>Gross amount</b>	<b>Allowance for doubtful accounts</b>	<b>Present value discount</b>	<b>Book value</b>
<b>Current assets</b>				
Trade receivables	₩ 7,260,227	(71,985)		7,188,242
Other receivables	652,782	(50,071)	(2,077)	600,634
	7,913,009	(122,056)	(2,077)	7,788,876
<b>Non-current assets</b>				
Trade receivables	491,509			491,509
Other receivables	1,455,860	(37,590)	(6,264)	1,412,006
	1,947,369	(37,590)	(6,264)	1,903,515
	₩ 9,860,378	(159,646)	(8,341)	9,692,391

*In millions of won*

		<b>2015</b>		
	<b>Gross amount</b>	<b>Allowance for doubtful accounts</b>	<b>Present value discount</b>	<b>Book value</b>
<b>Current assets</b>				
Trade receivables	₩ 6,862,762	(51,956)	(14)	6,810,792
Other receivables	718,717	(52,778)	(3,183)	662,756
	7,581,479	(104,734)	(3,197)	7,473,548
<b>Non-current assets</b>				
Trade receivables	447,010			447,010
Other receivables	1,396,107	(38,968)	(5,730)	1,351,409
	1,843,117	(38,968)	(5,730)	1,798,419

₩ 9,424,596	(143,702)	(8,927)	9,271,967
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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****8. Trade and Other Receivables, Continued**

(2) Other receivables as of December 31, 2016 and 2015 are as follows:

*In millions of won*

		2016		
	Gross amount	Allowance for doubtful accounts	Present value discount	Book value
<b>Current assets</b>				
Non-trade receivables	₩ 360,021	(50,071)		309,950
Accrued income	62,063			62,063
Deposits	193,720		(2,077)	191,643
Finance lease receivables	12,225			12,225
Others	24,753			24,753
	652,782	(50,071)	(2,077)	600,634
<b>Non-current assets</b>				
Non-trade receivables	80,393	(26,942)		53,451
Accrued income	174			174
Deposits	320,935		(6,264)	314,671
Finance lease receivables	960,649			960,649
Others	93,709	(10,648)		83,061
	1,455,860	(37,590)	(6,264)	1,412,006
	₩ 2,108,642	(87,661)	(8,341)	2,012,640

*In millions of won*

		2015		
	Gross amount	Allowance for doubtful accounts	Present value discount	Book value
<b>Current assets</b>				
Non-trade receivables	₩ 330,669	(52,778)		277,891
Accrued income	88,256			88,256
Deposits	235,745		(3,183)	232,562

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Finance lease receivables	12,098			12,098
Others	51,949			51,949
	718,717	(52,778)	(3,183)	662,756
<b>Non-current assets</b>				
Non-trade receivables	93,782	(31,829)		61,953
Accrued income	582			582
Deposits	256,745		(5,730)	251,015
Finance lease receivables	941,710			941,710
Others	103,288	(7,139)		96,149
	1,396,107	(38,968)	(5,730)	1,351,409
	₩ 2,114,824	(91,746)	(8,913)	2,014,165

- (3) Trade and other receivables are classified as loans and receivables, and are measured using the effective interest method. No interest is accrued for trade receivables related to electricity for the duration between the billing date and the payment due dates. But once trade receivables are overdue, the Company imposes a monthly interest rate of 1.5% on the overdue trade receivables. The Company holds deposits of three-months expected electricity usage for customers requesting temporary usage and customers with past defaulted payments.



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****8. Trade and Other Receivables, Continued****(4) Aging analysis of trade receivables as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Trade receivables: (not overdue, not impaired)	₩ 7,592,363	7,198,403
Trade receivables: (overdue, not impaired)	820	891
Less than 60 days	820	891
Trade receivables: (impairment reviewed)	158,553	110,478
60 ~ 90 days	44,277	31,973
90 ~ 120 days	18,917	11,010
120 days ~ 1 year	42,534	35,097
Over 1 year	52,825	32,398
	7,751,736	7,309,772
Less: allowance for doubtful accounts	(71,985)	(51,956)
Less: present value discount		(14)
	₩ 7,679,751	7,257,802

The Company assesses at the end of each reporting period whether there is any objective evidence that trade receivables are impaired, and provides allowances for doubtful accounts which includes impairment for trade receivables that are individually significant. The Company considers receivables as overdue if the receivables are outstanding 60 days after the maturity and sets an allowance based on past experience of collection.

**(5) Aging analysis of other receivables as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Other receivables: (not overdue, not impaired)	₩ 1,887,620	1,918,132

Other receivables: (overdue, not impaired)	46,887	20,249
Less than 60 days	46,887	20,249
Other receivables: (impairment reviewed)	174,135	176,443
60 ~ 90 days	7,352	2,409
90 ~ 120 days	2,160	10,097
120 days ~ 1 year	17,613	21,433
Over 1 year	147,010	142,504
	2,108,642	2,114,824
Less: allowance for doubtful accounts	(87,661)	(91,746)
Less: present value discount	(8,341)	(8,913)
	₩ 2,012,640	2,014,165

(6) Changes in the allowance for doubtful accounts for the years ended December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>	2016		2015	
	Trade receivables	Other receivables	Trade receivables	Other receivables
<b>Beginning balance</b>	₩ 51,956	91,746	80,644	67,932
Bad debt expense	38,719	233	1,308	18,473
Write-off	(18,939)	(928)	(28,978)	(888)
Reversal		(5,489)	(1,018)	(413)
Others	249	2,099		6,642
<b>Ending balance</b>	₩ 71,985	87,661	51,956	91,746

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****9. Available-for-sale Financial Assets****(1) Changes in available-for-sale financial assets for the years ended December 31, 2016 and 2015 are as follows:***In millions of won*

		2016				
	Beginning balance	Acquisition	Disposal	Valuation Impairment	Others	Ending balance
<b>Listed:</b>						
Korea District Heating Corp.	₩ 130,410			23,773		154,183
Kwanglim Co., Ltd. (*1)	262		(214)	598	(646)	
Ssangyong Motor Co., Ltd.	299			5		304
Sungjee Construction. Co., Ltd.	5			16		21
Korea Line Corp.						
Namkwang Engineering & Construction Co., Ltd.	1			(1)		
Pumyang Construction Co., Ltd.						
ELCOMTEC Co., Ltd.	53			21		74
PAN ocean Co., Ltd.	6			1		7
Borneo International Furniture Co., Ltd.	103					103
TONGYANG Inc. (*1)	217		(44)	25	(198)	
TONGYANG networks Inc. (*1)	6		(3)		(3)	
Nexolon Co., Ltd. (*1)	3,196		(3,137)	569	(628)	
Dongbu Corporation, PT Adaro Energy Tbk	21,012			52,049		73,061
Energy Fuels Inc.	5,926			(2,775)	(3,273)	3,507
Baralaba Coal Company Limited (formerly, Cockatoo Coal Limited)	42					42
Denison Mines Corp.	34,457				(5,849)	7,896
Fission 3.0	30			(16)		2
Fission Uranium Corp.	554			(126)		31
	196,579		(3,398)	74,139	(9,122)	9,973
						268,171
<b>Unlisted:</b>						
K&C - Gyeongnam youth job creation Investment Fund	1,207					1,207

Korea investment Korea EXIM Bank CERs Private Special Asset Investment Trust I	571			571
Troika Overseas Resource Development Private Equity Firm	1,553			1,553
IBK-AUCTUS Green Growth Private Equity firm (*1)	855		(814)	41
Global Dynasty Overseas Resource Development Private Equity Firm	2,233			2,233
Intellectual Discovery, Ltd.	1,375			1,375
Hanwha-KOSEP New Renewable Energy Private Special Assets Investment Trust 1 (*1)	1,069	3,685	(365)	4,389
Construction Guarantee	805		14	819
Plant & Mechanical Contractors Financial Cooperative of Korea	36			36
Fire Guarantee	20			20
Korea Software Financial Cooperative	301	3,000		3,301
Engineering Financial Cooperative	60			60
Electric Contractors Financial Cooperative	152			152
Korea Specialty Contractor Financial Cooperative	417			417
Information & Communication Financial Cooperative	10			10
Korea Electric Engineers Association	40			40
Korea investment Investment Pool for Public funds 10		142,470	(1,155)	141,315
Samsung investment Investment Pool for Public funds 2		213,710	(1,790)	211,920
Samsung investment Investment Pool for Public funds 1		53,220	(8)	53,212
Korea investment Hanwha KT Mater Lease Private Special Investment Trust (*1)	31,200	(640)	8	30,568

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****9. Available-for-sale Financial Assets, Continued****(1) Changes in available-for-sale financial assets for the years ended December 31, 2016 and 2015 are as follows, continued:***In millions of won*

	<b>2016</b>				<b>Ending</b>		
	<b>Beginning</b>	<b>Acquisition</b>	<b>Disposal</b>	<b>Valuation</b>	<b>Impairment</b>	<b>Others</b>	<b>balance</b>
	<b>balance</b>						
Hwan Young Steel Co., Ltd.	₩ 97						97
Woobang ENC Co., Ltd.	22				(22)		
Dongnam Co., Ltd.	72				(72)		
SAMBO AUTO. Co., Ltd.	38						38
Mobo Co., Ltd.	14						14
Poonglim Industrial Co., Ltd.	93				(93)		
HANKOOK Silicon Co., Ltd.	7,513				(6,018)		1,495
Kun Young Engineering & Construction Co., Ltd.	5				(3)	(2)	
Pumyang Asset Management Co., Ltd.	3				(3)		
Dae Kwang Semiconductor Co., Ltd.	6						6
Sanbon Department Store	3						3
Woori Ascon Co., Ltd.	10					(10)	
Miju Steel Mfg. Co., Ltd.	51						51
BnB Sungwon Co., Ltd.	15						15
Hana Civil Engineering Co., Ltd.	1						1
KC Development Co., Ltd.	6						6
IMHWA Corp.	5						5
DALIM Special Vehicle Co., Ltd.	10						10
ASA JEONJU Co., Ltd.	69						69
KYUNGWON Co., Ltd.	14				(14)		
Moonkyung Silica Co., Ltd.							
Yousung Remicon Co., Ltd.	4				(4)		
Sungkwang Timber Co., Ltd.	4						4
Yongbo Co., Ltd.	3						3
HJ Steel Co., Ltd.	2						2
KS Remicon Co., Ltd.	3						3
Sewoong Heavy Industries Co., Ltd.	40				(40)		
SIN-E Steel Co., Ltd.	33						33
Joongang Platec Co., Ltd.	72				(37)		35

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Pyungsan SI Ltd.	9	9
Samgong Development Co., Ltd.	7	7
Joongang Development Co., Ltd.	8	8
AJS Co., Ltd.	32	32
SHIN-E B&P Co., Ltd.	10	10
MSE Co., Ltd.	9	9
Ilim Nano Tec Co., Ltd.	15	15
Kwang Myeong Electronics Technology Co., Ltd.	11	(11)
Youngjin Hi-Tech Co., Ltd.	21	21
Dong Woo International Co., Ltd.	18	18
Bench Mark Construction Co., Ltd.		
Buyoung Co., Ltd.	3	3
Ilsuk Co., Ltd.	10	10
Dongyang Telecom Co., Ltd.	11	11
Han Young Construction Co., Ltd.	3	3
Jongwon Remicon Co., Ltd.	13	13
Ace Heat Treating Co., Ltd.	72	72
Zyle Daewoo Motor Sales Co., Ltd.		
Daewoo Development Co., Ltd.		
Seyang Inc.	27	27
Seungri Enterprise Co., Ltd.	3	3

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****9. Available-for-sale Financial Assets, Continued****(1) Changes in available-for-sale financial assets for the years ended December 31, 2016 and 2015 are as follows, continued:***In millions of won*

	2016					Ending	
	Beginning	Acquisition	Disposal	Valuation	Impairment	Others	balance
	balance						balance
Onggane Food Co., Ltd.	₩ 1						1
Shin-E P&C Co., Ltd.	1						1
Ejung Ad Co., Ltd.	3						3
Solvus Co., Ltd.	3						3
Myung Co., Ltd.	2						2
Emotion Co., Ltd.	8						8
Youngdong Concrete Co., Ltd.	7						7
Shinil Engineering Co., Ltd.	3						3
Korea Castiron Industrial Co., Ltd.	22				(22)		
FFG DMC Co., Ltd.	17				(68)	51	
Daeseong Metal Co., Ltd.	47					(47)	
Biwang Industry Co., Ltd.	2						2
Huimun Co., Ltd.	4						4
Sunun IT F Co., Ltd.	8					(8)	
Young Sung Co., Ltd.	27						27
Yuil Industrial Electronics Co., Ltd.	16						16
DN TEK Inc.	62				(56)		6
Daeyang F.M.S Corporation	3					20	23
Kwang Jin Structure Co., Ltd.	31						31
Woojin Industry Corporation	16						16
Kwang Sung Industry Co., Ltd.	7						7
Matsaeng Food Co., Ltd.	6					(6)	
Futech Mold Co., Ltd.	14						14
Samcheonri Industrial Co., Ltd.	13						13
Woojoo Environment Ind. Co., Ltd.	13						13
Cheongatti Co., Ltd.	4						4
Hyungji Esquire Co., Ltd.	21					1	22
Kolmar Pharma Co., Ltd.	52				(49)		3
Morado Co., Ltd.	2						2
Myung Sung Tex Co., Ltd.	2						2

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Kwang Sung Co., Ltd.		31	31
EverTechno. Co., Ltd.	(140)	147	7
Autowel Co., Ltd.		13	13
Woobang Constructon Co., Ltd.		8	8
Shin Pyung Co., Ltd.		3	3
JMC Heavy Industries Co., Ltd.		27	27
Najin Steel Co., Ltd.		5	5
Kunyang Food Co., Ltd.	(1)	1	
Sinkwang Industry Co., Ltd.		5	5
Join Land Co., Ltd.		1	1
Crystal Co., Ltd.		2	2
Elephant & Friends Co., Ltd.		3	3
Mireco Co., Ltd.		11	11
L&K Industry Co., Ltd.		24	24
JO Tech Co., Ltd.		25	25
Samwoo EMC Co., Ltd.	(117)	117	
Kendae Printing Co., Ltd.		21	21
Golden Tech Co., Ltd.	(114)	114	
Dauning Co., Ltd.		6	6
Korea Trecision Co., Ltd.		5	5
Buhmwoo Chemical Corp.	(20)	20	
Ace Track Co., Ltd.	(160)	219	59



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****9. Available-for-sale Financial Assets, Continued****(1) Changes in available-for-sale financial assets for the years ended December 31, 2016 and 2015 are as follows, continued:***In millions of won*

	2016					
	Beginning balance	Acquisition	Disposal	Valuation Impairment	Others	Ending balance
Taebok Machinery Co., Ltd.	₩				11	11
Yooah Industry Co., Ltd.					13	13
Yoo-A Construction Co., Ltd.					11	11
Dung Hwan Co., Ltd.					5	5
Dongjin Metal Co., Ltd.				(27)	27	
Hurim Biocell Co., Ltd.					5	5
P. J, Trading Co., LTd.						
Sunjin Power Tech Co., Ltd.				(157)	247	90
Smart Power Co., Ltd.		200				200
Sunjin Inprecision Co., Ltd.				(169)	169	
Haseung Industries Co., Ltd.					28	28
Beer Yeast Korea Inc.					7	7
Daeryung Corporation					10	10
Korea Bio Red Ginseng Co., Ltd.					10	10
ESGI Co., Ltd.				(120)	120	
ENH Co., Ltd.				(55)	55	
HS Development Co., Ltd.					54	54
OCO Co., Ltd.					11	11
B CON Co., Ltd.					6	6
Doosun Co., Ltd.				(62)	62	
CheonIl Metal Co., Ltd.					4	4
Teakwang Tech Co., Ltd.					12	12
SsangMa Machine Co., Ltd.					1	1
SinJin Co., Ltd.					9	9
Ace Integration Co., Ltd					21	21
AceInti Agricultural Co., Ltd.					1	1
KyungDong Co., Ltd.					1	1
ChunWon Development Co., Ltd.					39	39

WonIl Co., Ltd.						50	50
SungLim Industrial Co., Ltd.						1	1
DaeHa Co., Ltd.						11	11
Korea Minerals Co., Ltd.						135	135
HyoDong Development Co., Ltd.						24	24
Haspe Tech Co., Ltd.						20	20
JoHyun Co., Ltd.						18	18
KC Co., Ltd.						3	3
SeongJi Industrial Co., Ltd.						1	1
SsangYong E&C Co., Ltd. (*1)			(9)			9	
Areva nc Expansion	170,118				(69,927)	(1,719)	98,472
Navanakorn Electric Co., Ltd.	17,951					558	18,509
PT. Kedap Saayq							
Set Holding	179,585				(9,415)		170,170
PT. Cirebon Energi Prasarana	635	1,999				75	2,709
	387,900	449,484	(1,828)	(12,346)	(77,581)	932	746,561
	₩ 584,479	449,484	(5,226)	61,793	(86,703)	10,905	1,014,732

(\*1) The Company recognized gain and loss on disposal of available-for-sale financial assets amounted to ₩1,482 million and ₩9 million, respectively, from the sales of shares of Kwanglim Co., Ltd., TONGYANG Inc., TONGYANG networks Inc., Nexolon Co., Ltd. and SsangYong E&C Co., Ltd. and from the partial sales of IBK-AUCTUS Green Growth Private Equity Firm, Hanwha-KOSEP New Renewable Energy Private Special Assets Investment Trust 1 and Korea investment Hanwha KT Mater Lease Private Special Investment Trust for the year ended December 31, 2016.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****9. Available-for-sale Financial Assets, Continued****(1) Changes in available-for-sale financial assets for the years ended December 31, 2016 and 2015 are as follows, continued:***In millions of won*

	2015				Ending	
	Beginning	Acquisition	Disposal	Valuation Impairment	Others	Balance
	balance					
<b>Listed:</b>						
Korea District Heating Corp.	₩ 127,241			3,169		130,410
Kwanglim Co., Ltd.	128			134		262
Ssangyong Motor Co., Ltd.	357			(58)		299
Sungjee Construction. Co., Ltd.	5					5
Korea Line Corp.						
Namkwang Engineering & Construction Co., Ltd.	2			(3)	2	1
Pumyang Construction Co., Ltd.						
ELCOMTEC Co., Ltd.	48			5		53
PAN ocean Co., Ltd.	5			1		6
Borneo International Furniture Co., Ltd.	4			7	92	103
TONGYANG Inc.	66			140	11	217
TONGYANG networks Inc.	3			3		6
Nexolon Co., Ltd				59	3,137	3,196
PT Adaro Energy Tbk	44,109			(23,097)	(23,206)	21,012
Energy Fuels Inc.	11,568			(4,866)	(9,391)	5,926
Baralaba Coal Company Limited (formerly, Cockatoo Coal Limited)	628			(572)	(572)	42
Denison Mines Corp.	62,339			(22,187)	(20,154)	14,459
Fission 3.0 (*1)	61		(57)	11	15	30
Fission Uranium Corp.	651			(28)	(69)	554
	247,215		(57)	(47,282)	(53,323)	196,579
<b>Unlisted:</b>						
K&C - Gyeongnam youth job creation Investment Fund (*1)	1,340		(133)			1,207
	1,804		(1,804)			

Hanwha Electric Power Venture Fund(*1)					
Korea Investment Bank CERs Private Investment Trust I (*1)	4,752		(3,000)	(1,181)	571
Troika Overseas Resource Development Private Equity Firm	13,340			(11,787)	1,553
IBK-AUCTUS Green Growth Private Equity firm (*1)	2,325		(1,470)		855
Global Dynasty Overseas Resource Development Private Equity Firm	2,233				2,233
Intellectual Discovery, Ltd.	5,000			(3,625)	1,375
Hanwha-KOSEP New Renewable Energy Private Special Assets					
Investment Trust 1 (*1)	498	802	(231)		1,069
Construction Guarantee	795			10	805
Plant & Mechanical Contractors Financial Cooperative of Korea	36				36
Fire Guarantee	20				20
Korea Software Financial Cooperative	301				301
Engineering Financial Cooperative	60				60
Electric Contractors Financial Cooperative	152				152
Korea Specialty Contractor Financial Cooperative	417				417
Information & Communication Financial Cooperative	10				10
Korea Electric Engineers Association	40				40
Hwan Young Steel Co., Ltd.	97				97
Woobang ENC Co., Ltd	22				22
Dongnam Co., Ltd.	72				72
SAMBO AUTO. Co., Ltd.	38				38
Mobo Co., Ltd.	14				14
Poonglim Industrial Co., Ltd.	78			15	93

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****9. Available-for-sale Financial Assets, Continued****(1) Changes in available-for-sale financial assets for the years ended December 31, 2016 and 2015 are as follows, continued:***In millions of won*

	<b>2015</b>					<b>Ending</b>	
	<b>Beginning</b>	<b>Acquisition</b>	<b>Disposal</b>	<b>Valuation</b>	<b>Impairment</b>	<b>Others</b>	<b>Balance</b>
	<b>balance</b>						
HANKOOK Silicon Co., Ltd.	₩ 7,513						7,513
Kun Young Engineering & Construction Co., Ltd.	5						5
Pumyang Asset Management Co., Ltd.	3						3
Dae Kwang Semiconductor Co., Ltd.	6						6
Sanbon Department Store	124				(121)		3
Woori Ascon Co., Ltd.	10						10
Miju Steel Mfg. Co., Ltd.	51						51
BnB Sungwon Co., Ltd.	15						15
Hana Civil Engineering Co., Ltd.	1						1
KC Development Co., Ltd.	6						6
IMHWA Corp.	5						5
IXELON Co., Ltd.	23				(23)		
DALIM Special Vehicle Co., Ltd.	10						10
ASA KIMJE Co., Ltd.	465				(465)		
ASA JEONJU Co., Ltd.	697				(628)		69
KYUNGWON Co., Ltd.	14						14
Moonkyung Silica Co., Ltd.							
Yousung Remicon Co., Ltd.	4						4
Sungkwang Timber Co., Ltd.	4						4
Yongbo Co., Ltd.	3						3
HJ Steel Co., Ltd.						2	2
Ildong Air Conditioning Co., Ltd.					(2)	2	
KS Remicon Co., Ltd.						3	3
Sewoong Heavy Industries Co., Ltd.						40	40
SIN-E Steel Co., Ltd.						33	33
Joongang Platec Co., Ltd.						72	72
Hangjin Steel Co., Ltd.					(116)	116	
Pyungsan SI Ltd.						9	9
Samgong Development Co., Ltd.						7	7

Joongang Development Co., Ltd.		8	8
AJS Co., Ltd.		32	32
SHIN-E B&P Co., Ltd.		10	10
MSE Co., Ltd.		9	9
Irim Nano Tec Co., Ltd.		15	15
Kwang Myeong Electronics Technology Co., Ltd.		11	11
Youngjin Hi-Tech Co., Ltd.	(105)	126	21
Dong Woo International Co., Ltd.		18	18
Bench Mark Construction Co., Ltd.			
Buyoung Co., Ltd.		3	3
Ilsuk Co., Ltd.		10	10
Dongyang Telecom Co., Ltd.		11	11
Han Young Construction Co., Ltd.		3	3
Jongwon Remicon Co., Ltd.		13	13
Ace Heat Treating Co., Ltd.		72	72
Zyle Daewoo Motor Sales Co., Ltd.			
Daewoo Development Co., Ltd.			
Daewoo Songdo Development Co., Ltd.	(2)	2	
Seyang Inc.		27	27
Seungri Enterprise Co., Ltd.		3	3
Onggane Food Co., Ltd		1	1

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****9. Available-for-sale Financial Assets, Continued****(1) Changes in available-for-sale financial assets for the years ended December 31, 2016 and 2015 are as follows, continued:***In millions of won*

	2015				Ending	
	Beginning	Acquisition	Disposal	Valuation Impairment	Others	Balance
	balance					
Shin-E P&C Co., Ltd.	₩				1	1
Montista Telecom Co., Ltd.					(3)	3
Ejung Ad Co., Ltd.					3	3
Solvus Co., Ltd.					3	3
Myung Co., Ltd.					2	2
Emotion Co., Ltd.					8	8
Youngdong Concrete Co., Ltd.					7	7
Shinil Engineering Co., Ltd.					3	3
Korea Castiron Industrial Co., Ltd.					22	22
FFG DMC Co., Ltd.					17	17
Daeseong Metal Co., Ltd.					47	47
Biwang Industry Co., Ltd.					2	2
Huimun Co., Ltd.					4	4
Sunun IT F Co., Ltd.					8	8
Young Sung Co., Ltd.					27	27
Yuil Industrial Electronics Co., Ltd.					16	16
DN TEK Inc.					62	62
Daeyang F.M.S Corporation					3	3
Kwang Jin Structure Co., Ltd.					31	31
Woojin Industry Corporation					16	16
Kwang Sung Industry Co., Ltd.					7	7
Matsaeng Food Co., Ltd.					6	6
Futech Mold Co., Ltd.					14	14
Samcheonri Industrial Co., Ltd.					13	13
Woojoo Environment Ind. Co., Ltd.					13	13
Cheongatti Co., Ltd.					4	4
Hyungji Esquire Co., Ltd.					21	21

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Kolmar Pharma Co., Ltd.						52	52
Morado Co., Ltd.						2	2
Myung Sung Tex Co., Ltd.						2	2
Areva nc Expansion	227,876					(57,758)	170,118
Navanakorn Electric Co., Ltd.	16,836					1,115	17,951
PT. Kedap Saayq	12,989				(12,989)		
Set Holding	167,832			11,753			179,585
PT. Cirebon Energi Prasarana		635					635
	467,936	1,437	(6,638)	11,763	(31,047)	(55,551)	387,900
	<b>₩ 715,151</b>	<b>1,437</b>	<b>(6,695)</b>	<b>(35,519)</b>	<b>(84,370)</b>	<b>(5,525)</b>	<b>584,479</b>

(\*1) The Company recognized gain and loss on disposal of available-for-sale financial assets amounted to ~~₩~~4 million and ₩3,008 million, respectively, from the sales of shares of Fission 3.0, K&C- Gyeongnam Youth Job Creation Investment Fund, Korea Investment - Korea EXIM Bank CERs Private Special Asset Investment Trust 1, IBK-AUCTUS Green Growth Private Equity Firm and others and from the liquidation of Hanwha Electric Power Venture fund for the year ended December 31, 2015.



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****9. Available-for-sale Financial Assets, Continued****(2) Available-for-sale financial assets as of December 31, 2016 and 2015 are as follows:***In millions of won*

			2016		
	Shares	Ownership	Acquisition cost	Book value	Fair value
<b>Listed</b>					
Korea District Heating Corp.	2,264,068	19.55%	₩ 173,201	154,183	154,183
Ssangyong Motor Co., Ltd.	38,568	0.03%	428	304	304
Sungjee Construction. Co., Ltd.	10,530	0.01%	49	21	21
Korea Line Corp.	18	0.00%	1		
Namkwang Engineering & Construction Co., Ltd.	46	0.00%	15		
Pumyang Construction Co., Ltd.	7	0.00%	2		
ELCOMTEC Co., Ltd.	32,875	0.04%	217	74	74
PAN ocean Co., Ltd.	1,492	0.00%	14	7	7
Borneo International Furniture Co., Ltd.	64,037	0.28%	97	103	103
Dongbu Corporation,	1,229	0.02%	12	12	12
PT Adaro Energy Tbk	480,000,000	1.50%	71,554	73,061	73,061
Energy Fuels Inc.	1,711,814	2.59%	16,819	3,385	3,385
Baralaba Coal Company Limited (formerly, Cockatoo Coal Limited) (*6)	99,763	0.07%	18,445	42	42
Denison Mines Corp.	58,284,000	10.93%	84,134	36,504	36,504
Fission 3.0	300,000	0.17%		16	16
Fission Uranium Corp.	800,000	0.17%	785	459	459
			365,773	268,171	268,171
<b>Unlisted (*1)</b>					
K&C - Gyeongnam youth job creation Investment Fund	24	10.00%	1,207	1,207	
Korea investment Korea EXIM Bank CERs Private Special Asset Investment Trust I	1,758,731,002	14.18%	1,752	571	
Troika Overseas Resource Development Private Equity Firm	13,340,012,100	3.66%	13,340	1,553	
IBK-AUCTUS Green Growth Private Equity firm	152	6.29%	41	41	
	2,233,407,439	7.46%	2,233	2,233	

Global Dynasty Overseas Resource Development Private Equity Firm Intellectual Discovery, Ltd.	1,000,000	8.81%	5,000	1,375	
Hanwha-KOSEP New Renewable Energy Private Special Assets Investment Trust 1	4,256,096,329	5.00%	4,389	4,389	
Construction Guarantee (*2)	571	0.02%	601	819	819
Plant & Mechanical Contractors Financial Cooperative of Korea	50	0.01%	36	36	
Fire Guarantee	40	0.02%	20	20	
Korea Software Financial Cooperative	5,186	1.39%	3,301	3,301	
Engineering Financial Cooperative	486	0.05%	60	60	
Electric Contractors Financial Cooperative	800	0.03%	152	152	
Korea Specialty Contractor Financial Cooperative	476	0.01%	417	417	
Information & Communication Financial Cooperative	70	0.01%	10	10	
Korea Electric Engineers Association	400	0.24%	40	40	
Korea investment Investment Pool for Public funds 10 (*5)			142,470	141,315	141,315
Samsung investment Investment Pool for Public funds 2 (*5)			213,710	211,920	211,920
Samsung investment Investment Pool for Public funds 1 (*5)			53,220	53,212	53,212
Korea investment Hanwha KT Mater Lease Private Special Investment Trust (*5)			30,560	30,568	30,568
Hwan Young Steel Co., Ltd.	10,916	0.14%	1,092	97	
SAMBO AUTO. Co., Ltd.	15,066	0.02%	38	38	
Mobo Co., Ltd.	504	0.00%	14	14	
HANKOOK Silicon Co., Ltd.	3,005,208	10.44%	7,513	1,495	
Dae Kwang Semiconductor Co., Ltd.	589	0.07%	6	6	

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****9. Available-for-sale Financial Assets, Continued****(2) Available-for-sale financial assets as of December 31, 2016 and 2015 are as follows, continued:***In millions of won*

	Shares	Ownership	2016	
			Acquisition cost	Book value/Fair value
Sanbon Department Store	828	0.01%	₩ 124	3
Miju Steel Mfg. Co., Ltd.	99,804	0.23%	51	51
BnB Sungwon Co., Ltd.	589	0.07%	15	15
Hana Civil Engineering Co., Ltd.	23	0.00%	1	1
KC Development Co., Ltd.	839	0.02%	6	6
IMHWA Corp.	329	0.11%	5	5
DALIM Special Vehicle Co., Ltd.	58	0.08%	10	10
ASA JEONJU Co., Ltd.	34,846	1.34%	697	69
Moonkyung Silica Co., Ltd.	42	0.56%		
Sungkwang Timber Co., Ltd.	9	0.34%	4	4
Yongbo Co., Ltd.	61	0.20%	3	3
HJ Steel Co., Ltd.	218	0.07%	2	2
KS Remicon Co., Ltd.	12	0.04%	3	3
SIN-E Steel Co., Ltd.	109	0.08%	33	33
Joongang Platec Co., Ltd.	3,591	0.75%	72	35
Pyungsan SI Ltd.	434	0.01%	9	9
Samgong Development Co., Ltd.	12	0.01%	7	7
Joongang Development Co., Ltd.	540	0.12%	8	8
AJS Co., Ltd.	12,906	0.23%	32	32
SHIN-E B&P Co., Ltd.	119	0.13%	10	10
MSE Co., Ltd.	429	0.13%	9	9
Ilim Nano Tec Co., Ltd.	1,520	0.07%	15	15
Youngjin Hi-Tech Co., Ltd.	2,512	0.25%	126	21
Dong Woo International Co., Ltd.	90	0.37%	18	18
Buyoung Co., Ltd.	270	0.00%	3	3
Ilsuk Co., Ltd.	152	0.17%	10	10
Dongyang Telecom Co., Ltd.	1,760	0.01%	11	11
Han Young Construction Co., Ltd.	35	0.03%	3	3
Jongwon Remicon Co., Ltd.	31	0.18%	13	13
Ace Heat Treating Co., Ltd.	477	1.43%	72	72
Zyle Daewoo Motor Sales Co., Ltd.	22	0.00%		
Daewoo Development Co., Ltd.	8	0.00%		

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Seyang Inc.	537	0.05%	27	27
Seungri Enterprise Co., Ltd.	93	0.05%	3	3
Onggane Food Co., Ltd	5	0.07%	1	1
Shin-E P&C Co., Ltd.	12	0.00%	1	1
Ejung Ad Co., Ltd.	132	0.09%	3	3
Solvus Co., Ltd.	1,056	0.04%	3	3
Myung Co., Ltd.	89	0.05%	2	2
Emotion Co., Ltd.	167	0.61%	8	8
Youngdong Concrete Co., Ltd.	32	0.32%	7	7
Shinil Engineering Co., Ltd.	887	0.06%	3	3
Biwang Industry Co., Ltd	406	0.04%	2	2
Huimun Co., Ltd.	263	0.26%	4	4
Young Sung Co., Ltd.	89	0.40%	27	27
Yuil Industrial Electronics Co., Ltd.	804	0.32%	16	16
DN TEK Inc.	12,401	0.29%	62	6
Daeyang F.M.S Corporation	593	0.40%	23	23
Kwang Jin Structure Co., Ltd.	3,072	0.60%	31	31

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****9. Available-for-sale Financial Assets, Continued**

(2) Available-for-sale financial assets as of December 31, 2016 and 2015 are as follows, continued:

*In millions of won*

	Shares	Ownership	2016	
			Acquisition cost	Book value/Fair value
Woojin Industry Corporation	3	0.00%	₩ 16	16
Kwang Sung Industry Co., Ltd.	325	0.35%	7	7
Futech Mold Co., Ltd.	274	0.27%	14	14
Samcheonri Industrial Co., Ltd.	533	0.98%	13	13
Woojoo Environment Ind. Co., Ltd.	101	0.11%	13	13
Cheongatti Co., Ltd.	57	0.10%	4	4
Hyungji Esquire Co., Ltd.	55	0.02%	22	22
Kolmar Pharma Co., Ltd.	1,426	0.01%	52	3
Morado Co., Ltd.	209	0.04%	2	2
Myung Sung Tex Co., Ltd.	20	0.00%	2	2
Kwang Sung Co., Ltd.	610	0.53%	31	31
EverTechno. Co., Ltd.	29,424	0.73%	147	7
Autowel Co., Ltd.	260	0.38%	13	13
Woobang Construction Co., Ltd.	8	0.00%	8	8
Shin Pyung Co., Ltd.	6	0.03%	3	3
JMC Heavy Industries Co., Ltd.	2,724	0.10%	27	27
Najin Steel Co., Ltd.	37	0.06%	5	5
Sinkwang Industry Co., Ltd.	1,091	1.68%	5	5
Join Land Co., Ltd.	33	0.00%	1	1
Crystal Co., Ltd.	22	0.07%	2	2
Elephant & Friends Co., Ltd.	563	0.61%	3	3
Mireco Co., Ltd.	109	0.25%	11	11
L&K Industry Co., Ltd.	1,615	0.60%	24	24
JO Tech Co., Ltd.	1,263	0.62%	25	25
Kendae Printing Co., Ltd.	422	0.60%	21	21
Dauning Co., Ltd.	231	0.41%	6	6
Korea Trecision Co., Ltd.	22	0.45%	5	5
Ace Track Co., Ltd.	3,130	1.08%	219	59
Taebok Machinery Co., Ltd.	109	1.08%	11	11
Yooah Industry Co., Ltd.	130	0.02%	13	13
Yoo-A Construction Co., Ltd.	105	0.20%	11	11
Dung Hwan Co., Ltd.	531	0.02%	5	5

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Hurim Biocell Co., Ltd.	113	0.00%	5	5
P. J, Trading Co., LTd.	12	0.04%		
Sunjin Power Tech Co., Ltd.	4,941	0.92%	247	90
Smart Power Co., Ltd.	133,333	5.55%	200	200
Haseung Industries Co., Ltd.	55	0.62%	28	28
Beer Yeast Korea Inc.	1,388	0.43%	7	7
Daeryung Corporation	207	0.19%	10	10
Korea Bio Red Ginseng Co., Ltd.	194	0.09%	10	10
ENH Co., Ltd.	1,086	0.19%	54	54
OCO Co., Ltd.	123	0.37%	11	11
B CON Co., Ltd.	96	1.16%	6	6
Teakwang Tech Co., Ltd.	11	0.15%	4	4
SsangMa Machine Co., Ltd.	2,460	0.11%	12	12
SinJin Co., Ltd.	4	0.05%	1	1
Ace Integration Co., Ltd	233	0.30%	9	9
AceInti Agricultural Co., Ltd.	93	0.09%	21	21
Teakwang Tech Co., Ltd.	3	0.00%	1	1

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****9. Available-for-sale Financial Assets, Continued****(2) Available-for-sale financial assets as of December 31, 2016 and 2015 are as follows, continued:***In millions of won*

			<b>2016</b>		
	Shares	Ownership	Acquisition cost	Book value	Fair value
KyungDong Co., Ltd.	130	0.01%	₩ 1	1	1
ChunWon Development Co., Ltd.	193	0.19%	39	39	39
WonIl Co., Ltd.	999	0.15%	50	50	50
SungLim Industrial Co., Ltd.	29	0.03%	1	1	1
DaeHa Co., Ltd.	141	0.54%	11	11	11
Korea Minerals Co., Ltd.	191	0.05%	135	135	135
HyoDong Development Co., Ltd.	119	0.15%	24	24	24
Haspe Tech Co., Ltd.	652	0.55%	20	20	20
JoHyun Co., Ltd.	350	1.56%	18	18	18
KC Co., Ltd.	5,107	0.17%	3	3	3
SeongJi Industrial Co., Ltd.	41	0.05%	1	1	1
Areva nc Expansion	1,077,124	13.49%	288,443	98,472	98,472
Navanakorn Electric Co., Ltd. (*3)	8,885,600	26.93%	17,216	18,509	18,509
PT. Kedap Saayq	671	10.00%	18,540	170,170	170,170
Set Holding (*4)	1,100,220	2.50%	229,255	170,170	170,170
PT. Cirebon Energi Prasarana	22,420	10.00%	2,612	2,709	2,709
			1,040,553	746,561	706,476
			₩ 1,406,326	1,014,732	974,647

(\*1) Book values of unlisted equity securities held by the Company for which a quoted market price does not exist in an active market and fair value cannot be measured reliably were measured at cost.

(\*2) The Company has estimated the fair value of the investment in Construction Guarantee based upon the price which would be applied when the investment is returned. The Company has recognized the difference between its fair value and book value as a gain or loss on valuation of available-for-sale financial assets in other comprehensive income or loss during the year ended December 31, 2016.

(\*3) Although the Company holds more than 20% of the equity shares of these investments, the Company cannot exercise significant influence.

- (\*4) The Company has estimated the fair value of Set Holding by using the discounted cash flow method and has recognized the difference between its fair value and book value as gain or loss on valuation of available-for-sale financial assets in other comprehensive income or loss during the year ended December 31, 2016.
- (\*5) As of December 31, 2016, the Company invested in ₩437,015 million as beneficiary securities exclusively for payment of decommissioning cost of nuclear power plants. The Company has measured the fair value of the beneficiary securities based on its net asset value.
- (\*6) The number of shares has changed due to the merger of shares (500:1) during the year ended December 31, 2016.



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****9. Available-for-sale Financial Assets, Continued**

(2) Available-for-sale financial assets as of December 31, 2016 and 2015 are as follows, continued:

*In millions of won*

Listed	Shares	Ownership	2015		
			Acquisition cost	Book value	Fair value
Korea District Heating Corp.	2,264,068	19.55%	₩ 173,201	130,410	130,410
Kwanglim Co., Ltd.	84,515	0.44%	386	262	262
Ssangyong Motor Co., Ltd.	38,568	0.03%	428	299	299
Sungjee Construction. Co., Ltd.	1,053	0.01%	49	5	5
Korea Line Corp.	18	0.00%	1		
Namkwang Engineering & Construction Co., Ltd.	232	0.00%	15	1	1
Pumyang Construction Co., Ltd.	7	0.00%	2		
ELCOMTEC Co., Ltd.	32,875	0.04%	217	53	53
PAN ocean Co., Ltd.	1,492	0.00%	14	6	6
Borneo International Furniture Co., Ltd.	64,037	0.28%	97	103	103
TONGYANG Inc.	78,511	0.03%	45	217	217
TONGYANG networks Inc.	4,422	0.01%	3	6	6
Nexolon Co., Ltd	3,665,367	2.59%	3,138	3,196	3,196
PT Adaro Energy Tbk	480,000,000	1.50%	71,554	21,012	21,012
Energy Fuels Inc.	1,711,814	3.79%	16,819	5,926	5,926
Baralaba Coal Company Limited (formerly, Cockatoo Coal Limited)	49,881,423	0.07%	18,445	42	42
Denison Mines Corp.	58,284,000	11.24%	84,134	34,457	34,457
Fission 3.0	300,000	0.17%		30	30
Fission Uranium Corp.	800,000	0.21%	785	554	554
			369,333	196,579	196,579
<b>Unlisted (*1)</b>					
K&C - Gyeongnam youth job creation Investment Fund	24	10.00%	1,207	1,207	
Korea Investment - Korea EXIM Bank CERs					
Private Special Asset Investment Trust I	1,758,731,002	14.18%	1,752	571	
	13,340,012,100	3.66%	13,340	1,553	

Troika Overseas Resource Development					
Private Equity Firm					
IBK-AUCTUS Green Growth Private Equity					
firm	233	6.30%	855	855	
Global Dynasty Overseas Resource					
Development Private Equity Firm					
	2,233,407,439	7.46%	2,233	2,233	
Intellectual Discovery, Ltd.					
	1,000,000	8.81%	5,000	1,375	
Hanwha-KOSEP New Renewable Energy					
Private Special Assets Investment Trust 1					
	1,069,432,095	5.00%	1,069	1,069	
Construction Guarantee (*2)					
	571	0.02%	601	805	805
Plant & Mechanical Contractors Financial					
Cooperative of Korea					
	50	0.01%	36	36	
Fire Guarantee					
	40	0.02%	20	20	
Korea Software Financial Cooperative					
	301	0.15%	301	301	
Engineering Financial Cooperative					
	528	0.10%	60	60	
Electric Contractors Financial Cooperative					
	800	0.03%	152	152	
Korea Specialty Contractor Financial					
Cooperative					
	476	0.01%	417	417	
Information & Communication Financial					
Cooperative					
	70	0.01%	10	10	
Korea Electric Engineers Association					
	400	0.26%	40	40	
Hwan Young Steel Co., Ltd.					
	10,916	0.14%	1,092	97	
Woobang ENC Co., Ltd					
	14	0.00%	22	22	
Dongnam Co., Ltd.					
	2,070	0.46%	72	72	
SAMBO AUTO. Co., Ltd.					
	15,066	0.02%	38	38	
Mobo Co., Ltd.					
	504	0.00%	14	14	
Poonglim Industrial Co., Ltd.					
	1,915	0.01%	93	93	
HANKOOK Silicon Co., Ltd.					
	7,513,022	10.44%	7,513	7,513	
Kun Young Engineering & Construction Co.,					
Ltd.					
	100	0.00%	5	5	
Pumyang Asset Management Co., Ltd.					
	13	0.00%	3	3	
Dae Kwang Semiconductor Co., Ltd.					
	589	0.07%	6	6	
Sanbon Department Store					
	828	0.01%	124	3	
Woori Ascon Co., Ltd.					
	25	0.34%	10	10	
Miju Steel Mfg. Co., Ltd.					
	99,804	0.23%	51	51	
BnB Sungwon Co., Ltd.					
	589	0.07%	15	15	

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****9. Available-for-sale Financial Assets, Continued****(2) Available-for-sale financial assets as of December 31, 2016 and 2015 are as follows, continued:***In millions of won*

	Shares	Ownership	2015	
			Acquisition cost	Book value/Fair value
Hana Civil Engineering Co., Ltd.	23	0.00%	₩ 1	1
KC Development Co., Ltd.	839	0.02%	6	6
IMHWA Corp.	329	0.11%	5	5
IXELON Co., Ltd.	2,292	0.02%	23	
DALIM Special Vehicle Co., Ltd.	58	0.08%	10	10
ASA KIMJE Co., Ltd.	23,245	1.11%	465	
ASA JEONJU Co., Ltd.	34,846	1.34%	697	69
KYUNGWON Co., Ltd.	2,812	0.17%	14	14
Moonkyung Silica Co., Ltd.	42	0.56%		
Yousung Remicon Co., Ltd.	8	0.26%	4	4
Sungkwang Timber Co., Ltd.	9	0.34%	4	4
Yongbo Co., Ltd.	61	0.20%	3	3
HJ Steel Co., Ltd.	218	0.07%	2	2
Ildong Air Conditioning Co., Ltd.	218	0.16%	3	
KS Remicon Co., Ltd.	12	0.04%	3	3
Sewoong Heavy Industries Co., Ltd.	7,931	0.10%	40	40
SIN-E Steel Co., Ltd.	109	0.08%	33	33
Joongang Platec Co., Ltd.	3,591	0.75%	72	72
Hangjin Steel Co., Ltd.	116	1.08%	116	
Pyungsan SI Ltd.	434	0.01%	9	9
Samgong Development Co., Ltd.	12	0.01%	7	7
Joongang Development Co., Ltd.	540	0.12%	8	8
AJS Co., Ltd.	12,906	0.23%	32	32
SHIN-E B&P Co., Ltd.	119	0.13%	10	10
MSE Co., Ltd.	429	0.13%	9	9
Ilim Nano Tec Co., Ltd.	1,520	0.07%	15	15
Kwang Myeong Electronics Technology Co., Ltd.	113	0.37%	11	11
Youngjin Hi-Tech Co., Ltd.	2,512	0.25%	126	21
Dong Woo International Co., Ltd.	90	0.37%	18	18
Bench Mark Construction Co., Ltd.	2	0.00%		
Buyoung Co., Ltd.	270	0.00%	3	3
Ilsuk Co., Ltd.	152	0.17%	10	10

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Dongyang Telecom Co., Ltd.	1,760	0.01%	11	11
Han Young Construction Co., Ltd.	35	0.03%	3	3
Jongwon Remicon Co., Ltd.	31	0.18%	13	13
Ace Heat Treating Co., Ltd.	477	1.43%	72	72
Zyle Daewoo Motor Sales Co., Ltd.	22	0.00%		
Daewoo Development Co., Ltd.	8	0.00%		
Daewoo Songdo Development Co., Ltd.	301	0.00%	2	
Seyang Inc.	537	0.05%	27	27
Seungri Enterprise Co., Ltd.	93	0.05%	3	3
Onggane Food Co., Ltd	5	0.07%	1	1
Shin-E P&C Co., Ltd.	12	0.00%	1	1
Montista Telecom Co., Ltd.	5,409	0.00%	3	
Ejung Ad Co., Ltd.	132	0.09%	3	3
Solvus Co., Ltd.	1,056	0.04%	3	3
Myung Co., Ltd.	89	0.05%	2	2
Emotion Co., Ltd.	167	0.61%	8	8
Youngdong Concrete Co., Ltd.	32	0.32%	7	7
Shinil Engineering Co., Ltd.	887	0.06%	3	3
Korea Castiron Industrial Co., Ltd.	617	1.86%	22	22
FFG DMC Co., Ltd.	12	0.00%	17	17
Daeseong Metal Co., Ltd.	518	2.37%	47	47
Biwang Industry Co., Ltd	406	0.04%	2	2
Huimun Co., Ltd.	263	0.26%	4	4

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****9. Available-for-sale Financial Assets, Continued**

(2) Available-for sale financial assets as of December 31, 2016 and 2015 are as follows, continued:

*In millions of won*

			2015		
	Shares	Ownership	Acquisition cost	Book value	Fair value
Sunun IT F Co., Ltd.	133	0.52%	₩ 8	8	
Young Sung Co., Ltd.	89	0.40%	27	27	
Yuil Industrial Electronics Co., Ltd.	804	0.32%	16	16	
DN TEK Inc.	12,401	0.29%	62	62	
Daeyang F.M.S Corporation	84	0.05%	3	3	
Kwang Jin Structure Co., Ltd.	3,072	0.60%	31	31	
Woojin Industry Corporation	3	0.00%	16	16	
Kwang Sung Industry Co., Ltd.	325	0.35%	7	7	
Matsaeng Food Co., Ltd.	277	0.56%	6	6	
Futech Mold Co., Ltd.	274	0.27%	14	14	
Samcheonri Industrial Co., Ltd.	533	0.98%	13	13	
Woojoo Environment Ind. Co., Ltd.	101	0.11%	13	13	
Cheongatti Co., Ltd.	57	0.10%	4	4	
Hyungji Esquire Co., Ltd.	52	0.02%	21	21	
Kolmar Pharma Co., Ltd.	1,426	0.01%	52	52	
Morado Co., Ltd.	209	0.04%	2	2	
Myung Sung Tex Co., Ltd.	20	0.00%	2	2	
Areva nc Expansion	1,077,124	13.49%	288,443	170,118	
Navanakorn Electric Co., Ltd. (*3)	4,442,800	29.00%	17,216	17,951	
PT. Kedap Saayq	671	10.00%	18,540		
Set Holding (*4)	1,100,220	2.50%	229,255	179,585	179,585
PT. Cirebon Energi Prasarana	420	10.00%	635	635	
			592,550	387,900	180,390
			₩ 961,883	584,479	376,969

(\*1) Book values of unlisted equity securities held by the Company for which a quoted market price does not exist in an active market and fair value cannot be measured reliably were measured at cost.

- (\*2) The Company has estimated the fair value of the investment in Construction Guarantee based upon the price which would be applied when the investment is returned. The Company has recognized the difference between its fair value and book value as a gain or loss on valuation of available-for-sale financial assets in other comprehensive income or loss during the year ended December 31, 2015.
- (\*3) Although the Company holds more than 20% of the equity shares of these investments, the Company cannot exercise significant influence.
- (\*4) The Company has estimated the fair value of Set Holding by using the discounted cash flow method and has recognized the difference between its fair value and book value as gain or loss on valuation of available-for-sale financial assets in other comprehensive income or loss during the year ended December 31, 2015.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****10. Held-to-maturity Investments****Held-to-maturity investments as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>				<b>Ending balance</b>
	<b>Beginning balance</b>	<b>Acquisition</b>	<b>Disposal</b>	<b>Others</b>	
Government bonds	₩ 3,623	149	(528)		3,244
	₩ 3,623	149	(528)		3,244
Current	₩ 380		(380)	114	114
Non-current	3,243	149	(148)	(114)	3,130

<i>In millions of won</i>	<b>2015</b>				<b>Ending balance</b>
	<b>Beginning balance</b>	<b>Acquisition</b>	<b>Disposal</b>	<b>Others</b>	
Government bonds	₩ 3,601	432	(410)		3,623
Corporate bonds	13			(13)	
	₩ 3,614	432	(410)	(13)	3,623
Current	₩ 265		(186)	301	380
Non-current	3,349	432	(224)	(314)	3,243

**11. Derivatives****(1) Derivatives as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>		<b>2015</b>	
	<b>Current</b>	<b>Non-current</b>	<b>Current</b>	<b>Non-current</b>

<b>Derivative assets</b>					
Currency forward	₩	8,370	32,806	1,498	24,896
Currency swap		184,913	540,057	95,759	491,219
Interest rate swap			4,705		3,778
Others (*1)			10,523		
	₩	193,283	588,091	97,257	519,893
<b>Derivative liabilities</b>					
Currency forward	₩	1,153	34	1,142	
Currency swap			56,612	758	66,976
Interest rate swap		2,098	78,789	8,345	89,289
	₩	3,251	135,435	10,245	156,265

(\*1) The Company has a put option to sell shares of DS POWER Co., Ltd, a related party of the Company, and the fair value of the option is recorded in Others . (Note 17)



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****11. Derivatives, Continued**

(2) **Currency forward contracts which are not designated as hedge instruments as of December 31, 2016 are as follows:**

*In millions of won and thousands of foreign currencies*

Counterparty	Contract Date	Maturity date	Contract amounts		Contract exchange rate
			Pay	Receive	
KEB Hana Bank	2014.04.10	2021.07.12	₩ 55,120	USD 52,000	1,060.00
KEB Hana Bank	2014.04.28	2021.07.12	50,784	USD 48,000	1,058.00
Bank of America	2014.04.29	2021.07.12	105,400	USD 100,000	1,054.00
KEB Hana Bank	2014.05.09	2021.07.12	104,600	USD 100,000	1,046.00
JP Morgan	2016.12.09	2017.01.09	35,215	USD 30,219	1,165.31
Woori Bank	2016.12.08	2017.01.09	59,657	USD 51,411	1,160.40
Standard Chartered	2016.12.06	2017.01.03	11,712	USD 10,000	1,171.20
Nova Scotia	2016.12.08	2017.01.09	11,590	USD 10,000	1,159.00
BNP Paribas	2016.12.13	2017.01.17	2,681	USD 2,300	1,165.65
BNP Paribas	2016.12.14	2017.01.17	4,673	USD 4,000	1,168.20
BTMU	2016.12.08	2017.01.12	11,594	USD 10,000	1,159.40
BTMU	2016.12.12	2017.01.17	11,704	USD 10,000	1,170.40
BTMU	2016.12.14	2017.01.17	2,330	USD 2,000	1,165.10
Mizuho Bank	2016.12.08	2017.01.12	11,594	USD 10,000	1,159.35
Nonghyup Bank	2016.12.12	2017.01.17	5,852	USD 5,000	1,170.40
Societe Generale	2016.12.12	2017.01.17	3,979	USD 3,400	1,170.40
Societe Generale	2016.12.15	2017.01.19	14,160	USD 12,000	1,180.00
Societe Generale	2016.12.28	2017.01.31	8,212	USD 6,800	1,207.60
BNP Paribas	2016.11.22	2017.01.25	2,351	USD 2,000	1,175.40
BNP Paribas	2016.11.25	2017.01.31	2,353	USD 2,000	1,176.40
Citibank	2016.11.25	2017.01.31	1,029	USD 874	1,177.85
Mizuho Bank	2016.12.30	2017.03.03	9,596	USD 8,000	1,199.45
HSBC	2016.11.18	2017.05.22	4,717	USD 4,000	1,179.35
HSBC	2016.11.22	2017.01.25	7,046	USD 6,000	1,174.32
HSBC	2016.12.07	2017.02.09	4,669	USD 4,000	1,167.15
HSBC	2016.12.15	2017.01.25	USD 2,489	2,923	1,174.32
HSBC	2016.12.28	2017.02.09	USD 3,424	3,997	1,167.15
HSBC	2016.12.29	2017.01.25	USD 2,693	3,162	1,174.32

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HSBC	2016.12.30	2017.03.03	3,605	USD	3,000	1,201.55
HSBC	2016.12.30	2017.03.03	8,396	USD	7,000	1,199.45
Standard Chartered	2016.12.13	2017.02.15	871	USD	748	1,163.60
Nova Scotia	2016.11.22	2017.01.23	7,080	USD	6,000	1,180.03
Nova Scotia	2016.11.24	2017.01.31	3,004	USD	2,540	1,182.55
Nova Scotia	2016.12.26	2017.02.28	2,397	USD	2,000	1,198.70
Nova Scotia	2016.12.30	2017.03.03	6,017	USD	5,000	1,203.30
Nova Scotia	2016.12.30	2017.03.03	9,597	USD	8,000	1,199.60
Nonghyup Bank	2016.11.22	2017.01.25	2,446	USD	2,083	1,174.73
Nonghyup Bank	2016.12.27	2017.02.28	2,410	USD	2,000	1,205.20
Credit Agricole	2016.11.21	2017.01.23	1,182	USD	1,000	1,181.55
Credit Agricole	2016.12.26	2017.02.28	2,397	USD	2,000	1,198.25
Societe Generale	2016.11.22	2017.01.25	2,352	USD	2,000	1,175.90
Societe Generale	2016.11.30	2017.02.02	1,167	USD	1,000	1,166.70
Societe Generale	2016.12.29	2017.02.02	USD 913		1,065	1,166.70
Societe Generale	2016.12.06	2017.02.08	1,168	USD	1,000	1,167.65
Societe Generale	2016.12.23	2017.02.27	4,807	USD	4,000	1,201.78
Mizuho Bank	2016.12.12	2017.01.10	19,887	USD	17,000	1,169.83
Credit Agricole	2016.12.19	2017.01.13	8,302	USD	7,000	1,186.05
Standard Chartered	2016.12.15	2017.01.13	16,503	USD	14,000	1,178.76
KEB Hana Bank	2016.12.29	2017.01.05	341	EUR	270	1,262.26
KEB Hana Bank	2016.08.26	2017.02.16	4,812	EUR	3,800	1,266.30
KEB Hana Bank	2016.09.07	2017.09.06	3,121	EUR	2,500	1,248.20
KEB Hana Bank	2016.08.26	2017.08.09	1,280	CNY	7,800	164.13
KEB Hana Bank	2016.09.07	2017.09.06	834	CNY	5,200	160.48
Societe Generale	2016.12.14	2017.06.16	2,245	USD	1,929	1,163.90
Nova Scotia	2016.12.13	2017.06.15	2,328	USD	2,000	1,164.20
Nomura	2016.12.07	2017.06.12	1,000	USD	858	1,165.10
Nova Scotia	2016.11.16	2017.05.18	23	USD	20	1,166.50
Societe Generale	2016.11.30	2017.06.02	771	USD	661	1,166.70
Nova Scotia	2016.12.07	2017.06.09	737	USD	631	1,167.70
Nomura	2016.12.01	2017.06.05	5,839	USD	5,000	1,167.80
Credit Suisse	2016.11.29	2017.06.01	5,840	USD	5,000	1,167.90

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****11. Derivatives, Continued**

(2) **Currency forward contracts which are not designated as hedge instruments, as of December 31, 2016 are as follows, continued:**

*In millions of won and thousands of foreign currencies*

Counterparty	Contract Date	Maturity date	Contract amounts		Contract exchange rate
			Pay	Receive	
Nova Scotia	2016.12.07	2017.06.09	3,505	USD 3,000	1,168.20
Societe Generale	2016.11.28	2017.05.31	2,047	USD 1,751	1,168.50
BNP Paribas	2016.12.29	2017.07.03	4,241	USD 3,513	1,207.40
Nova Scotia	2016.12.15	2017.03.20	USD 15,000	17,678	1,178.50
Nova Scotia	2016.12.16	2017.03.20	USD 3,000	3,552	1,184.00
Nova Scotia	2016.12.20	2017.03.22	USD 3,000	3,571	1,190.40
Nova Scotia	2016.12.23	2017.03.27	USD 3,000	3,606	1,202.00
KEB Hana Bank	2015.08.26	2017.07.31	JPY 630,000	6,377	10.12
BNP Paribas	2015.02.12	2017.01.10	IDR 6,567,882	USD 486	13,525.00
BNP Paribas	2015.02.12	2017.02.10	IDR 6,567,882	USD 486	13,525.00
BNP Paribas	2015.02.12	2017.03.10	IDR 6,567,882	USD 486	13,525.00
BNP Paribas	2015.02.12	2017.04.10	IDR 6,567,882	USD 486	13,525.00
BNP Paribas	2015.02.12	2017.05.10	IDR 6,567,882	USD 486	13,525.00
BNP Paribas	2015.02.12	2017.06.12	IDR 6,567,882	USD 486	13,525.00
BNP Paribas	2015.02.12	2017.07.10	IDR 6,567,882	USD 486	13,525.00
BNP Paribas	2015.02.12	2017.08.10	IDR 2,889,868	USD 214	13,525.00

(3) **Currency swap contracts which are not designated as hedge instruments as of December 31, 2016 are as follows:**

*In millions of won and thousands of foreign currencies*

Counterparty	Contract year	Contract amount		Contract interest rate		Contract exchange rate
		Pay	Receive	Pay	Receive	
Deutsche Bank	2013~2018	₩ 110,412	JPY 10,000,000	6.21%	4.19%	11.04

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IBK	2013~2018	111,800	USD	100,000	3.16%	2.79%	1,118.00
Bank of America	2013~2018	103,580	JPY	10,000,000	7.05%	4.19%	10.36
Credit Suisse	2014~2019	118,632	CHF	100,000	2.98%	1.50%	1,186.32
Standard Chartered	2014~2019	114,903	CHF	100,000	4.00%	1.50%	1,149.03
Standard Chartered	2014~2029	102,470	USD	100,000	3.14%	3.57%	1,024.70
Standard Chartered	2014~2017	51,215	USD	50,000	2.24%	3M Libor + 0.55%	1,024.30
Mizuho Bank	2014~2017	153,645	USD	150,000	2.35%	3M Libor + 0.65%	1,024.30
Societe Generale	2014~2024	105,017	USD	100,000	4.92%	5.13%	1,050.17
KEB Hana Bank	2015~2024	107,970	USD	100,000	4.75%	5.13%	1,079.70
Credit Agricole	2015~2024	94,219	USD	86,920	4.85%	5.13%	1,083.97
Citibank	2012~2022	112,930	USD	100,000	2.79%	3.00%	1,129.30
JP Morgan	2012~2022	112,930	USD	100,000	2.79%	3.00%	1,129.30
Bank of America	2012~2022	112,930	USD	100,000	2.79%	3.00%	1,129.30
Shinhan Bank	2016~2022	112,930	USD	100,000	2.79%	3.00%	1,129.30
HSBC	2012~2022	111,770	USD	100,000	2.89%	3.00%	1,117.70
KEB Hana Bank	2012~2022	111,770	USD	100,000	2.87%	3.00%	1,117.70
Standard Chartered	2012~2022	111,770	USD	100,000	2.89%	3.00%	1,117.70
Deutsche Bank	2012~2022	55,885	USD	50,000	2.79%	3.00%	1,117.70
DBS	2013~2018	108,140	USD	100,000	2.63%	3M Libor+0.84%	1,081.40
DBS	2013~2018	108,140	USD	100,000	2.57%	3M Libor+0.84%	1,081.40
DBS	2013~2018	108,140	USD	100,000	2.57%	3M Libor+0.84%	1,081.40
HSBC	2013~2018	107,450	USD	100,000	3.41%	2.88%	1,074.50
Standard Chartered	2013~2018	107,450	USD	100,000	3.44%	2.88%	1,074.50
JP Morgan	2013~2018	107,450	USD	100,000	3.48%	2.88%	1,074.50
Bank of America	2014~2018	107,450	USD	100,000	3.09%	2.88%	1,074.50
Citibank	2014~2018	107,450	USD	100,000	3.09%	2.88%	1,074.50
JP Morgan	2014~2017	102,670	USD	100,000	2.89%	3M Libor+0.78%	1,026.70
Deutsche Bank	2014~2017	102,670	USD	100,000	2.89%	3M Libor+0.78%	1,026.70
HSBC	2014~2019	105,260	USD	100,000	2.48%	2.38%	1,052.60
Standard Chartered	2014~2019	105,260	USD	100,000	2.48%	2.38%	1,052.60
Korea Development Bank	2016~2019	105,260	USD	100,000	2.48%	2.38%	1,052.60
Nomura	2015~2025	111,190	USD	100,000	2.60%	3.25%	1,111.90
Korea Development Bank	2015~2025	111,190	USD	100,000	2.62%	3.25%	1,111.90
Woori Bank	2015~2025	55,595	USD	50,000	2.62%	3.25%	1,111.90
KEB Hana Bank	2015~2025	55,595	USD	50,000	2.62%	3.25%	1,111.90

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

December 31, 2016

**11. Derivatives, Continued**

(4) Currency swap contracts which are designated as hedge instruments as of December 31, 2016 are as follows:

*In millions of won  
and thousands of  
foreign currencies*

Counterparty	Contract year	Contract amount		Contract interest rate		Contract exchange rate
		Pay	Receive	Pay	Receive	
Standard Chartered Barclays Bank	2011~2017	₩ 105,260	USD 100,000	3.99%	3.63%	1,052.60
PLC	2011~2017	105,260	USD 100,000	3.99%	3.63%	1,052.60
Citibank	2011~2017	105,260	USD 100,000	3.99%	3.63%	1,052.60
Citibank	2013~2018	54,570	USD 50,000	2.90%	3M Libor+1.01%	1,091.40
Standard Chartered	2013~2018	54,570	USD 50,000	2.90%	3M Libor+1.01%	1,091.40
Credit Suisse	2013~2018	111,410	USD 100,000	3.22%	3M Libor+1.50%	1,114.10
HSBC	2014~2020	99,901	AUD 100,000	3.52%	5.75%	999.01
HSBC	2014~2020	100,482	AUD 100,000	3.48%	5.75%	1,004.82
Standard Chartered	2013~2020	USD 117,250	AUD 125,000	3M Libor+1.25%	5.75%	0.94
Standard Chartered	2014~2020	126,032	USD 117,250	3.55%	3M Libor+1.25%	1,074.90
JP Morgan	2014~2019	107,190	USD 100,000	3M Libor+3.25%	2.75%	1,071.90
Morgan Stanley	2014~2019	107,190	USD 100,000	3M Libor+3.25%	2.75%	1,071.90
Deutsche Bank	2014~2019	107,190	USD 100,000	3M Libor+3.25%	2.75%	1,071.90
Korea						
Development Bank	2016~2021	121,000	USD 100,000	2.15%	2.50%	1,210.00
Morgan Stanley	2016~2021	121,000	USD 100,000	3M Libor+2.10%	2.50%	1,210.00
BNP Paribas	2016~2021	121,000	USD 100,000	3M Libor+2.10%	2.50%	1,210.00
Morgan Stanley	2012~2017	285,000	USD 250,000	3.76%	3.13%	1,140.00
Credit Agricole	2012~2017	142,500	USD 125,000	3.83%	3.13%	1,140.00
JP Morgan	2012~2017	142,500	USD 125,000	3.83%	3.13%	1,140.00
Credit Agricole	2013~2019	118,343	CHF 100,000	3.47%	1.63%	1,183.43
Morgan Stanley	2013~2019	59,172	CHF 50,000	3.40%	1.63%	1,183.43
Nomura	2013~2019	59,172	CHF 50,000	3.47%	1.63%	1,183.43
Morgan Stanley	2013~2018	107,360	USD 100,000	3.27%	2.88%	1,073.60
Credit Agricole	2013~2018	107,360	USD 100,000	3.34%	2.88%	1,073.60
JP Morgan	2013~2018	161,040	USD 150,000	3.34%	2.88%	1,073.60

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Standard Chartered	2013~2018	161,040	USD	150,000	3.34%	2.88%	1,073.60
Standard Chartered	2014~2019	104,490	USD	100,000	2.77%	2.63%	1,044.90
Credit Agricole	2014~2019	104,490	USD	100,000	2.77%	2.63%	1,044.90
Morgan Stanley	2014~2019	104,490	USD	100,000	2.70%	2.63%	1,044.90
Barclays Bank							
PLC	2013~2018	81,188	USD	75,000	2.65%	1.88%	1,082.50
Credit Agricole	2013~2018	81,188	USD	75,000	2.65%	1.88%	1,082.50
Deutsche Bank	2013~2018	81,188	USD	75,000	2.65%	1.88%	1,082.50
Citibank	2013~2018	81,188	USD	75,000	2.65%	1.88%	1,082.50
Standard Chartered	2014~2017	54,205	USD	50,000	2.93%	3M Libor+1.05%	1,084.10
Credit Agricole	2014~2017	54,205	USD	50,000	2.93%	3M Libor+1.05%	1,084.10
HSBC	2012~2017	115,140	USD	100,000	3.38%	2.50%	1,151.40
BNP Paribas	2012~2017	115,140	USD	100,000	3.38%	2.50%	1,151.40
KEB Hana Bank	2012~2017	115,140	USD	100,000	3.38%	2.50%	1,151.40
Barclays Bank							
PLC	2012~2017	57,570	USD	50,000	3.38%	2.50%	1,151.40
Standard Chartered	2012~2017	57,570	USD	50,000	3.38%	2.50%	1,151.40
Nomura	2012~2017	57,570	USD	50,000	3.38%	2.50%	1,151.40
Credit Agricole	2012~2017	57,570	USD	50,000	3.38%	2.50%	1,151.40
Societe Generale	2013~2018	106,190	USD	100,000	3.48%	2.63%	1,061.90
BNP Paribas	2013~2018	53,095	USD	50,000	3.48%	2.63%	1,061.90
KEB Hana Bank	2013~2018	53,095	USD	50,000	3.48%	2.63%	1,061.90
Standard Chartered	2013~2018	106,030	USD	100,000	3.48%	2.63%	1,060.30
Barclays Bank							
PLC	2013~2018	53,015	USD	50,000	3.48%	2.63%	1,060.30
KEB Hana Bank	2013~2018	31,809	USD	30,000	3.48%	2.63%	1,060.30
Societe Generale	2013~2018	21,206	USD	20,000	3.48%	2.63%	1,060.30
HSBC	2013~2018	53,015	USD	50,000	3.47%	2.63%	1,060.30
Nomura	2013~2018	53,015	USD	50,000	3.47%	2.63%	1,060.30
Credit Agricole	2014~2020	110,680	USD	100,000	2.29%	2.50%	1,106.80
Societe Generale	2014~2020	55,340	USD	50,000	2.16%	2.50%	1,106.80
KEB Hana Bank	2014~2020	55,340	USD	50,000	2.16%	2.50%	1,106.80
KEB Hana Bank	2014~2020	55,340	USD	50,000	2.21%	2.50%	1,106.80
Standard Chartered	2014~2020	55,340	USD	50,000	2.21%	2.50%	1,106.80
HSBC	2014~2020	55,340	USD	50,000	2.21%	2.50%	1,106.80
Nomura	2014~2020	55,340	USD	50,000	2.21%	2.50%	1,106.80
Barclays Bank							
PLC	2014~2020	55,340	USD	50,000	2.21%	2.50%	1,106.80
HSBC	2014~2020	55,340	USD	50,000	2.21%	2.50%	1,106.80

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

December 31, 2016

**11. Derivatives, Continued**

- (5) Interest rate swap contracts which are not designated as hedge instruments as of December 31, 2016 are as follows:

*In millions of won*

Counterparty	Contract year	Contract amount	Contract interest rate per annum	
			Pay	Receive
Standard Chartered	2012~2017	₩ 160,000	3.57%	3M CD + 0.32%
JP Morgan	2013~2018	150,000	3.58%	3M CD + 0.31%
Credit Suisse	2014~2018	200,000	2.98%	1Y CMT + 0.31%
Korea Development Bank (*)	2014~2029	40,000	3M CD - 0.03%	4.65%
Export-Import Bank of Korea	2015~2031	USD 15,893	2.67%	6M USD Libor
ING Bank	2015~2031	USD 7,861	2.67%	6M USD Libor
BNP Paribas	2015~2031	USD 7,861	2.67%	6M USD Libor

- (\*) The contract is an interest rate swap hedging on Electricity Bonds 885, and the banks would notify the Company of the early termination every year on the early termination notification date (every year on April 28, from 2017 until 2028). The contract will be terminated if the early termination is notified.

- (6) Interest rate swap contracts which are designated as hedge instruments as of December 31, 2016 are as follows:

*In thousands of U.S. dollars*

Counterparty	Contract year	Contract amount	Contract interest rate per annum	
			Pay	Receive
BNP Paribas	2009~2027	USD 94,790	4.16%	6M USD Libor
KFW	2009~2027	USD 94,790	4.16%	6M USD Libor
Credit Agricole	2016~2033	USD 99,694	3.98% ~ 4.10%	6M USD Libor
SMBC	2016~2033	USD 130,369	4.05% ~ 4.18%	6M USD Libor

- (7) Gains and losses on valuation and transaction of derivatives for the years ended December 31, 2016 and 2015 are as follows and included in finance income and costs in the consolidated statements of comprehensive income (loss):

<i>In millions of won</i>	Net income effects of valuation gain (loss)		Net income effects of transaction gain (loss)		Accumulated other comprehensive income (loss) (*)	
	2016	2015	2016	2015	2016	2015
Currency forward	₩ 15,993	357	4,266	8,523		
Currency swap	253,035	431,565	(68,266)	75,752	40,031	(6,926)
Interest rate swap	8,517	161,609	7,562	30,314	6,719	4,082
Other derivatives	10,523					
	₩ 288,068	593,531	(56,438)	114,589	46,750	(2,844)

- (\*) As of December 31, 2016, the net gain on valuation of derivatives using cash flow hedge accounting of ₩28,414 million, net of tax, is included in other comprehensive income or loss.



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****12. Other Financial Assets****(1) Other financial assets as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>		<b>2015</b>	
	<b>Current</b>	<b>Non-current</b>	<b>Current</b>	<b>Non-current</b>
Loans and receivables	₩ 198,133	683,353	106,013	678,126
Allowance for doubtful accounts		(4,532)		
Present value discount	(1,001)	(41,746)	(859)	(48,223)
Long-term/short-term financial instruments	2,281,460	414,466	5,132,829	758,037
	₩ 2,478,592	1,051,541	5,237,983	1,387,940

**(2) Loans and receivables as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>			
	<b>Face value</b>	<b>Allowance for doubtful accounts</b>	<b>Present value discount</b>	<b>Book value</b>
<b>Short-term loans and receivables</b>				
Loans for tuition	₩ 29,028		(1,001)	28,027
Loans for housing	12,556			12,556
Fisheries loan	352			352
Other loans	156,197			156,197
	198,133		(1,001)	197,132
<b>Long-term loans and receivables</b>				
Loans for tuition	404,200		(41,593)	362,607
Loans for housing	125,850			125,850
Loans for related parties	91,249	(4,532)		86,717
Fisheries loan	1,312		(153)	1,159

Other loans	60,742			60,742
	683,353	(4,532)	(41,746)	637,075
	₩ 881,486	(4,532)	(42,747)	834,207

*In millions of won*

	Face value	2015 Present value discount	Book value
<b>Short-term loans and receivables</b>			
Loans for tuition	₩ 29,210	(859)	28,351
Loans for housing	11,170		11,170
Fisheries loan	6,032		6,032
Other loans	59,601		59,601
	106,013	(859)	105,154
<b>Long-term loans and receivables</b>			
Loans for tuition	390,738	(47,822)	342,916
Loans for housing	132,239		132,239
Loans for related parties	99,768		99,768
Fisheries loan	1,664	(401)	1,263
Other loans	53,717		53,717
	678,126	(48,223)	629,903
	₩ 784,139	(49,082)	735,057

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****12. Other Financial Assets, Continued****(3) Changes in the allowance for doubtful accounts of Loans and receivables for the the year ended December 31, 2016 is as follows:**

<i>In millions of won</i>	<b>2016</b>
<b>Beginning balance</b>	<b>₩</b>
Bad debt expense	4,352
Other	180
<b>Ending balance</b>	<b>₩ 4,532</b>

**(4) Long-term and short-term financial instruments as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>		<b>2015</b>	
	<b>Current</b>	<b>Non-current</b>	<b>Current</b>	<b>Non-current</b>
Time deposits	₩ 1,820,391	30,000	2,131,089	3
ABCP	351,800	132,600	2,598,791	5,000
CP	16,000		48,350	
CD	60,443		163,649	
RP		1,521		652,700
Others	32,826	250,345	190,950	100,334
	<b>₩ 2,281,460</b>	<b>414,466</b>	<b>5,132,829</b>	<b>758,037</b>

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****13. Inventories**

Inventories as of December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>	<b>2016</b>		
	<b>Acquisition cost</b>	<b>Valuation allowance</b>	<b>Book value</b>
Raw materials	₩ 3,182,711	(1,323)	3,181,388
Merchandise	20		20
Work-in-progress	118,640		118,640
Finished goods	57,659		57,659
Supplies	1,289,160	(4,553)	1,284,607
Inventories in transit	827,437		827,437
Other inventories	9,692		9,692
	<b>₩ 5,485,319</b>	<b>(5,876)</b>	<b>5,479,443</b>
<i>In millions of won</i>	<b>2015</b>		
	<b>Acquisition cost</b>	<b>Valuation allowance</b>	<b>Book value</b>
Raw materials	₩ 3,304,220	(1,238)	3,302,982
Work-in-progress	133,226		133,226
Finished goods	51,073		51,073
Supplies	1,062,307	(4,428)	1,057,879
Inventories in transit	392,340		392,340
Other inventories	8,913		8,913
	<b>₩ 4,952,079</b>	<b>(5,666)</b>	<b>4,946,413</b>

The reversal of the allowance for loss on inventory valuation due to increase in the net realizable value of inventory deducted from cost of sales was ₩2,473 million for the year ended December 31, 2016. The allowance for loss on inventory valuation due to decrease in the net realizable value of inventory added to cost of sales was ₩533 million for the year ended December 31, 2015. The amounts of loss from inventory valuation included in other gains or losses were ₩2,683 million and ₩1,318 million for the years ended December 31, 2016 and 2015, respectively.



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****14. Finance Lease Receivables****(1) Finance lease contracts**

The Company entered into a power purchase agreement ( PPA ) with Jordan Electric Power Company to provide a 373MW level Qatrana gas combined power plant over a 25 year lease term, and accounts for the PPA as a finance lease. Also, the Company has fly-ash pipe conduit finance leases with an average lease term of 7 years. In addition, the Company entered into a PPA with the Comision Federal de Electricidad in Mexico to provide for 25 years of all electricity generated from the power plant after completion of its construction and collect rates consisting of fixed costs (to recover the capital) and variable costs during the contracted period.

**(2) Finance lease receivables as of December 31, 2016 and 2015 are as follows and included in current and non-current trade and other receivables, net, in the consolidated statements of financial position:**

<i>In millions of won</i>	<b>2016</b>		<b>2015</b>	
	<b>Minimum lease payments</b>	<b>Present value of minimum lease payments</b>	<b>Minimum lease payments</b>	<b>Present value of minimum lease payments</b>
Less than 1 year	₩ 55,708	12,225	98,488	12,098
1 ~ 5 years	423,152	214,176	407,426	203,699
More than 5 years	1,690,492	746,473	1,689,281	738,011
	₩ 2,169,352	972,874	2,195,195	953,808

**(3) There are no impaired finance lease receivables as of December 31, 2016 and 2015.****15. Non-Financial Assets**

Non-financial assets as of December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
---------------------------	-------------	-------------

	<b>Current</b>	<b>Non-current</b>	<b>Current</b>	<b>Non-current</b>
Advance payment	₩ 93,279	71,238	102,842	25,172
Prepaid expenses	228,142	78,066	159,378	85,105
Others (*)	310,439	32,485	135,730	20,956
	₩ 631,860	181,789	397,950	131,233

(\*) Details of others as of December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>	<b>2016</b>		<b>2015</b>	
	<b>Current</b>	<b>Non-current</b>	<b>Current</b>	<b>Non-current</b>
Tax refund receivables	₩ 30,959	2,188	39,158	2,658
Greenhouse gas emissions rights	145,105		51,158	
Others	134,375	30,297	45,414	18,298
	₩ 310,439	32,485	135,730	20,956

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****16. Consolidated Subsidiaries****(1) Consolidated subsidiaries as of December 31, 2016 and 2015 are as follows:**

Subsidiaries	Key operation activities	Location	Percentage of ownership (%)	
			2016	2015
Korea Hydro & Nuclear Power Co., Ltd.	Power generation	KOREA	100.00%	100.00%
Korea South-East Power Co., Ltd.	Power generation	KOREA	100.00%	100.00%
Korea Midland Power Co., Ltd.	Power generation	KOREA	100.00%	100.00%
Korea Western Power Co., Ltd.	Power generation	KOREA	100.00%	100.00%
Korea Southern Power Co., Ltd.	Power generation	KOREA	100.00%	100.00%
Korea East-West Power Co., Ltd.	Power generation	KOREA	100.00%	100.00%
KEPCO Engineering & Construction Company, Inc. (*1)	Architectural engineering for utility plant and others	KOREA	65.77%	66.32%
KEPCO Plant Service & Engineering Co., Ltd.	Utility plant maintenance and others	KOREA	51.00%	52.48%
KEPCO Nuclear Fuel Co., Ltd.	Nuclear fuel	KOREA	96.36%	96.36%
KEPCO KDN Co., Ltd.	Electric power information technology and others	KOREA	100.00%	100.00%
Garolim Tidal Power Plant Co., Ltd. (*2)	Power generation	KOREA	49.00%	49.00%
KEPCO International HongKong Ltd.	Holding company	HONG KONG	100.00%	100.00%
KEPCO International Philippines Inc.	Holding company	PHILIPPINES	100.00%	100.00%
KEPCO Gansu International Ltd.	Holding company	HONG KONG	100.00%	100.00%
KEPCO Philippines Holdings Inc.	Holding company	PHILIPPINES	100.00%	100.00%



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KEPCO Philippines Corporation	Operation of utility plant	PHILIPPINES	100.00%	100.00%
KEPCO Ilijan Corporation	Utility plant rehabilitation and operation	PHILIPPINES	51.00%	51.00%
KEPCO Lebanon SARL	Operation of utility plant	LEBANON	100.00%	100.00%
KEPCO Neimenggu International Ltd.	Holding company	HONG KONG	100.00%	100.00%
KEPCO Shanxi International Ltd.	Holding company	HONG KONG	100.00%	100.00%
KOMIPO Global Pte Ltd.	Holding company	SINGAPORE	100.00%	100.00%
KEPCO Canada Energy Ltd.	Resources development	CANADA	100.00%	100.00%
KEPCO Netherlands B.V.	Holding company	NETHERLANDS	100.00%	100.00%
KOREA Imouraren Uranium Investment Corp.	Resources development	FRANCE	100.00%	100.00%
KEPCO Australia Pty., Ltd.	Resources development	AUSTRALIA	100.00%	100.00%
KOSEP Australia Pty., Ltd.	Resources development	AUSTRALIA	100.00%	100.00%
KOMIPO Australia Pty., Ltd.	Resources development	AUSTRALIA	100.00%	100.00%
KOWEPO Australia Pty., Ltd.	Resources development	AUSTRALIA	100.00%	100.00%
KOSPO Australia Pty., Ltd.	Resources development	AUSTRALIA	100.00%	100.00%
KEPCO Middle East Holding Company	Holding company	BAHRAIN	100.00%	100.00%
Qatrana Electric Power Company	Construction and operation of utility plant	JORDAN	80.00%	80.00%
KHNP Canada Energy, Ltd.	Resources development	CANADA	100.00%	100.00%
KEPCO Bylong Australia Pty., Ltd.	Resources development	AUSTRALIA	100.00%	100.00%
Korea Waterbury Uranium Limited Partnership	Resources development	CANADA	79.64%	79.64%
KEPCO Canada Uranium Investment Limited Partnership	Resources development	CANADA		100.00%
Korea Electric Power Nigeria Ltd.	Operation of utility plant	NIGERIA	100.00%	100.00%
KEPCO Holdings de Mexico	Holding company	MEXICO	100.00%	100.00%
KST Electric Power Company	Construction and operation of utility plant	MEXICO	56.00%	56.00%
KEPCO Energy Service Company	Operation of utility plant	MEXICO	100.00%	100.00%
KEPCO Netherlands S3 B.V.	Holding company	NETHERLANDS	100.00%	100.00%
	Operation of utility plant	INDONESIA	51.00%	51.00%

PT. KOMIPO				
Pembangkitan Jawa Bali				
PT. Cirebon Power				
Service (*2)	Operation of utility plant	INDONESIA	27.50%	27.50%
KOWEPO International				
Corporation	Operation of utility plant	PHILIPPINES	99.99%	99.99%
KOSPO Jordan LLC	Operation of utility plant	JORDAN	100.00%	100.00%
EWP Philippines				
Corporation	Operation of utility plant	PHILIPPINES	100.00%	100.00%
EWP America Inc.	Holding company	USA	100.00%	100.00%
EWP Renewable Co.	Holding company	USA	100.00%	100.00%
DG Fairhaven Power, LLC	Power generation	USA	100.00%	100.00%
DG Kings Plaza, LLC	Power generation	USA		100.00%
DG Whitefield, LLC	Power generation	USA	100.00%	100.00%
Springfield Power, LLC	Power generation	USA	100.00%	100.00%
KNF Canada Energy				
Limited	Resources development	CANADA	96.36%	96.36%
PT KEPCO Resource				
Indonesia	Holding company	INDONESIA	100.00%	100.00%

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****16. Consolidated Subsidiaries, Continued****(1) Consolidated subsidiaries as of December 31, 2016 and 2015 are as follows, continued:**

Subsidiaries	Key operation activities	Location	Percentage of ownership (%)	
			2016	2015
EWP Barbados 1 SRL	Holding company	BARBADOS	100.00%	100.00%
California Power Holdings, LLC	Power generation	USA	100.00%	100.00%
Gyeonggi Green Energy Co., Ltd.	Power generation	KOREA	62.01%	62.01%
PT. Tanggamus Electric Power	Power generation	INDONESIA	52.50%	52.50%
Gyeongju Wind Power Co., Ltd.	Power generation	KOREA	70.00%	70.00%
KOMIPO America Inc.	Holding company	USA	100.00%	100.00%
EWPRC Biomass Holdings, LLC	Holding company	USA	100.00%	100.00%
KOSEP USA, INC.	Power generation	USA	100.00%	100.00%
PT. EWP Indonesia	Holding company	INDONESIA	99.95%	99.95%
KEPCO Netherlands J3 B.V.	Holding company	NETHERLANDS	100.00%	100.00%
Korea Offshore Wind Power Co., Ltd.	Operation of utility plant	KOREA	100.00%	100.00%
Global One Pioneer B.V.	Holding company	NETHERLANDS	100.00%	100.00%
Global Energy Pioneer B.V.	Holding company	NETHERLANDS	100.00%	100.00%
Mira Power Limited (*3)	Power generation	PAKISTAN	76.00%	76.00%
KOSEP Material Co., Ltd. (*4)	Power generation	KOREA	46.22%	46.22%
Commerce and Industry Energy Co., Ltd. (*5)	Power generation	KOREA	59.03%	59.03%
KEPCO Singapore Holdings Pte., Ltd.	Holding company	SINGAPORE	100.00%	100.00%
KOWEPO India Private Limited	Holding company	INDIA	100.00%	100.00%
		PHILIPPINES	51.00%	52.48%

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KEPCO KPS Philippines Corp.	Utility plant maintenance and others			
KOSPO Chile SpA	Holding company	CHILE	100.00%	100.00%
PT. KOWEPO Sumsel Operation and Maintenance Services	Utility plant maintenance and others	INDONESIA	95.00%	95.00%
HeeMang Sunlight Power Co., Ltd.	Power generation	KOREA	100.00%	100.00%
Fujeij Wind Power Company	Operation of utility plant	JORDAN	100.00%	100.00%
KOSPO Younghanm Power Co., Ltd.	Operation of utility plant	KOREA	50.00%	50.00%
Global One Carbon Private Equity Investment Trust 2	Holding company	KOREA	96.67%	
Chitose Solar Power Plant LLC	Power generation	JAPAN	80.10%	
KEPCO Energy Solution Co. Ltd.	Energy service	KOREA	100.00%	
Solar School Plant Co., Ltd.	Power generation	KOREA	100.00%	
KOSPO Power Services Limitada	Utility plant maintenance and others	CHILE	65.00%	
Energy New Industry Specialized Investment Private Investment Trust	Holding company	KOREA	99.75%	
KOEN Bylong Pty., Ltd.	Resources development	AUSTRALIA	100.00%	
KOMIPO Bylong Pty., Ltd.	Resources development	AUSTRALIA	100.00%	
KOWEPO Bylong Pty., Ltd.	Resources development	AUSTRALIA	100.00%	
KOSPO Bylong Pty., Ltd.	Resources development	AUSTRALIA	100.00%	
EWP Bylong Pty., Ltd.	Resources development	AUSTRALIA	100.00%	
KOWEPO Lao International	Utility plant maintenance and others	LAOS	100.00%	

(\*1) Considering treasury stocks, the effective percentage of ownership is 66.08%.

(\*2) These subsidiaries are included in the consolidated financial statements as the Company obtained the majority of the voting power through the shareholders' agreement.

(\*3) As of reporting date, the reporting period of all subsidiaries is December 31, except for Mira Power Limited which is November 30.

(\*4) According to the shareholders' agreement reached in April 2014, Korea South-East Power Co., Ltd. ( KOSEP ) signed a contract with Long Lasting Value( LLV ) to guarantee the principal and certain rate of return on LLV's shares in KOSEP Material Co., Ltd. Moreover, LLV has put options to sell their investment to KOSEP. Therefore, the Company accounted for this agreement as KOSEP acquiring the shares of KOSEP Material from LLV. As such, the effective percentage of ownership is 86.20% as of December 31, 2016.

(\*5) The Company guarantees a certain return on investment related to Commerce and Industry Energy Co., Ltd. for the financial investors. The financial investors have a right to sell their shares to the Company which can be exercised 84 months after the date of investment. Accordingly, the purchase price including the return on

investment is classified as a liability.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****16. Consolidated Subsidiaries, Continued****(2) Subsidiaries included in and excluded from consolidation for the year ended December 31, 2016 are as follows:**

&lt;Subsidiaries included in consolidation for the year ended December 31, 2016&gt;

<b>Subsidiary</b>	<b>Reason</b>
Global One Carbon Private Equity Investment Trust 2	Newly Established
Chitose Solar Power Plant LLC	Newly Established
KEPCO Energy Solution Co. Ltd.	Newly Established
Solar School Plant Co., Ltd.	Newly Established
KOSPO Power Services Limitada	Newly Established
Energy New Industry Specialized Investment Private Investment Trust	Newly Established
KOEN Bylong Pty., Ltd.	Newly Established
KOMIPO Bylong Pty., Ltd.	Newly Established
KOWEPO Bylong Pty., Ltd.	Newly Established
KOSPO Bylong Pty., Ltd.	Newly Established
EWP Bylong Pty., Ltd.	Newly Established
KOWEPO Lao International	Newly Established

&lt;Subsidiaries excluded from consolidation for the year ended December 31, 2016&gt;

<b>Subsidiary</b>	<b>Reason</b>
KEPCO Canada Uranium Investment Limited Partnership	Dissolved
DG Kings Plaza, LLC	Liquidated

**(3) Summary of financial information of consolidated subsidiaries as of and for the years ended December 31, 2016 and 2015 are as follows:***In millions of won*

<b>Subsidiaries</b>	<b>2016 Total assets</b>	<b>Total liabilities</b>	<b>Sales</b>	<b>Profit (loss) for the period</b>
Korea Hydro & Nuclear Power Co., Ltd.	₩ 52,782,915	27,366,938	11,168,579	2,454,810

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Korea South-East Power Co., Ltd.	9,773,778	4,794,330	5,093,598	531,061
Korea Midland Power Co., Ltd.	9,066,666	5,416,336	3,719,981	400,696
Korea Western Power Co., Ltd.	9,810,714	5,866,916	4,169,712	401,936
Korea Southern Power Co., Ltd.	9,806,023	5,637,950	4,200,035	426,337
Korea East-West Power Co., Ltd.	8,967,951	4,488,911	4,210,898	467,603
KEPCO Engineering & Construction Company, Inc.	786,596	364,676	506,012	17,796
KEPCO Plant Service & Engineering Co., Ltd.	1,086,421	301,490	1,214,304	86,657
KEPCO Nuclear Fuel Co., Ltd.	713,230	346,012	309,911	33,115
KEPCO KDN Co., Ltd.	519,901	205,869	588,160	43,127
Garolim Tidal Power Plant Co., Ltd.	632	346		-24
KEPCO International HongKong Ltd.	173,138	41		4,532
KEPCO International Philippines Inc.	114,141	1,468		56,783
KEPCO Gansu International Ltd.	17,928	557		(18)
KEPCO Philippines Holdings Inc.	125,100	27		13,517
KEPCO Philippines Corporation	13,704	8,949		(8,717)
KEPCO Ilijan Corporation	558,030	58,449	116,667	51,552
KEPCO Lebanon SARL	1,458	10,312		810
KEPCO Neimenggu International Ltd.	186,636			7,082
KEPCO Shanxi International Ltd.	549,189	218,047		5,812
KOMIPO Global Pte Ltd.	223,082	1,095		36,764
KEPCO Canada Energy Ltd.	202	24		(27,216)
KEPCO Netherlands B.V.	128,014	35		224
KOREA Imouraren Uranium Investment Corp.	154,302	764		(68,417)
KEPCO Australia Pty., Ltd.	503,657	1,545	3,670	(19,006)
KOSEP Australia Pty., Ltd.	25,174	521	5,357	4,028
KOMIPO Australia Pty., Ltd.	25,413	10	5,388	4,023
KOWEPO Australia Pty., Ltd.	25,550	10	5,357	4,012
KOSPO Australia Pty., Ltd.	25,625	10	5,357	4,033
KEPCO Middle East Holding Company	128,846	125,008		6,840

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****16. Consolidated Subsidiaries, Continued****(3) Summary of financial information of consolidated subsidiaries as of and for the years ended December 31, 2016 and 2015 are as follows, continued:***In millions of won*

Subsidiaries	2016			
	Total assets	Total liabilities	Sales	Profit (loss) for the period
Qatrana Electric Power Company	₩ 546,123	417,800	18,866	19,601
KHNP Canada Energy, Ltd.	54,374	46		(6,304)
KEPCO Bylong Australia Pty., Ltd.	220,721	277,358		(2,357)
Korea Waterbury Uranium Limited Partnership	20,882	149		2,348
Korea Electric Power Nigeria Ltd.	696	493	9,794	35
KEPCO Holdings de Mexico	262	19		251
KST Electric Power Company	596,823	539,459	146,295	17,322
KEPCO Energy Service Company	1,309	310	5,337	580
KEPCO Netherlands S3 B.V.	55,609	54		3,731
PT. KOMIPO Pembangkitan Jawa Bali	16,246	4,549	21,632	8,989
PT. Cirebon Power Service	3,456	1,228	7,463	301
KOWEPO International Corporation				
KOSPO Jordan LLC	11,524	687	7,321	317
EWP Philippines Corporation	1,966	955		(41)
EWP America Inc. (*)	104,809	80,252	33,616	(8,704)
KNF Canada Energy Limited	1,967	20		(46)
PT KEPCO Resource Indonesia	913	18		(341)
EWP Barbados 1 SRL	267,859	425	1,656	(902)
Gyeonggi Green Energy Co., Ltd.	301,126	221,078	108,557	19,211
PT. Tanggamus Electric Power	184,861	167,641	40,903	2,041
Gyeongju Wind Power Co., Ltd.	76,569	49,293	6,413	1,269
KOMIPO America Inc.	11,518	2,432		(2,240)
KOSEP USA, INC.	159	39,028	3,791	(72,817)
PT. EWP Indonesia	2,154	50		1,088
KEPCO Netherlands J3 B.V.	125,337	68		12,433
Korea Offshore Wind Power Co., Ltd.	37,826	2,048		(4,960)
Global One Pioneer B.V.	161	22		(54)
Global Energy Pioneer B.V.	338	22		(59)



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Mira Power Limited	178,141	133,730		(954)
KOSEP Material Co., Ltd.	2,398	1,497	3,232	(901)
Commerce and Industry Energy Co., Ltd.	99,432	87,316	28,375	(536)
KEPCO Singapore Holdings Pte., Ltd.	2,568	13		(33)
KOWEPO India Private Limited	879			1
KEPCO KPS Philippines Corp.	7,897	1,213	12,843	2,060
KOSPO Chile SpA	6,656	4,787		125
PT. KOWEPO Sumsel Operation and Maintenance				
Services	1,439	700	6,165	(96)
HeeMang Sunlight Power Co., Ltd.	7,102	3,391	12	(308)
Fujeij Wind Power Company	47,935	46,636		(873)
KOSPO Youngnam Power Co., Ltd.	284,368	205,680		(931)
Global One Carbon Private Equity Investment Trust 2	3,002			9
Chitose Solar Power Plant LLC	49,728	38,806		(811)
KEPCO Energy Solution Co. Ltd.	299,933	233		(300)
Solar School Plant Co., Ltd.	200,268	259	1	9
KOSPO Power Services Limitada	4,385	1,262	7,300	2,963
Energy New Industry Specialized Investment Private				
Investment Trust	501,275	33		(7)
KOEN Bylong Pty., Ltd.	6,135			
KOMIPO Bylong Pty., Ltd.	6,135			
KOWEPO Bylong Pty., Ltd.	6,135			
KOSPO Bylong Pty., Ltd.	6,135			
EWP Bylong Pty., Ltd.	6,135			
KOWEPO Lao International	218	181		(108)

(\*) Financial information of EWP America Inc. includes that of six other subsidiaries, EWP Renewable Co., DG Fairhaven Power, LLC, DG Whitefield, LLC, Springfield Power, LLC, California Power Holdings, LLC, and EWPRC Biomass Holdings, LLC.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

December 31, 2016

**16. Consolidated Subsidiaries, Continued****(3) Summary of financial information of consolidated subsidiaries as of and for the years ended December 31, 2016 and 2015 are as follows, continued:***In millions of won*

Subsidiaries	2015			
	Total assets	Total liabilities	Sales	Profit (loss) for the period
Korea Hydro & Nuclear Power Co., Ltd.	₩ 51,043,890	27,386,113	10,642,352	2,465,244
Korea South-East Power Co., Ltd.	9,326,835	4,859,827	4,961,711	601,204
Korea Midland Power Co., Ltd.	7,857,199	4,648,144	3,927,443	226,244
Korea Western Power Co., Ltd.	9,225,791	5,719,032	4,214,540	294,617
Korea Southern Power Co., Ltd.	9,216,084	5,525,865	4,317,995	224,757
Korea East-West Power Co., Ltd.	8,828,603	4,836,904	4,047,655	454,942
KEPCO Engineering & Construction Company, Inc.	855,156	438,371	657,603	31,047
KEPCO Plant Service & Engineering Co., Ltd.	1,029,304	246,342	1,171,082	168,632
KEPCO Nuclear Fuel Co., Ltd.	666,677	328,364	253,524	35,115
KEPCO KDN Co., Ltd.	439,725	159,275	451,678	33,578
Garolim Tidal Power Plant Co., Ltd.	655	346		(76)
KEPCO International HongKong Ltd.	172,686	18		4,993
KEPCO International Philippines Inc.	115,594	1,542		38,541
KEPCO Gansu International Ltd.	17,405	540		(6)
KEPCO Philippines Holdings Inc.	132,094	26		24,690
KEPCO Philippines Corporation	13,998	218		265
KEPCO Ilijan Corporation	603,865	58,572	126,234	54,596
KEPCO Lebanon SARL	741	10,182		(1,541)
KEPCO Neimenggu International Ltd.	184,860	348		8,027
KEPCO Shanxi International Ltd.	562,652	242,270		22,949
KOMIPO Global Pte Ltd.	187,885	29		16,572
KEPCO Canada Energy Ltd.	55,945	23		(64)
KEPCO Netherlands B.V.	169,496	61		1,409
KOREA Imouraren Uranium Investment Corp.	224,499	263		5,964
KEPCO Australia Pty., Ltd.	510,892	2,541	4,510	168
KOSEP Australia Pty., Ltd.	18,180	1,581	4,729	346
KOMIPO Australia Pty., Ltd.	17,397	559	4,729	349

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KOWEPO Australia Pty., Ltd.	18,320	1,578	4,729	353
KOSPO Australia Pty., Ltd.	18,358	1,567	4,729	356
KEPCO Middle East Holding Company	147,618	150,798		14,142
Qatrana Electric Power Company	521,206	412,587	17,844	31,767
KHNP Canada Energy, Ltd.	42,731	22		(123)
KEPCO Bylong Australia Pty., Ltd.	183,468	236,545		(23,352)
Korea Waterbury Uranium Limited Partnership	20,370	699		(48)
KEPCO Canada Uranium Investment Limited Partnership	38,804	14		(26,171)
Korea Electric Power Nigeria Ltd.	1,721	1,179	55,768	309
KEPCO Holdings de Mexico	39	34		(13)
KST Electric Power Company	564,358	529,439	97,879	14,631
KEPCO Energy Service Company	1,435	604	6,034	875
KEPCO Netherlands S3 B.V.	66,251	189		716
PT. KOMIPO Pembangkitan Jawa Bali	16,536	6,170	20,143	8,047
PT. Cirebon Power Service	2,795	1,010	6,663	459
KOWEPO International Corporation				
KOSPO Jordan LLC	12,998	1,117	9,840	2,693
EWP Philippines Corporation	2,664	1,592		258
EWP America Inc. (*)	115,562	82,167	59,124	3,227
KNF Canada Energy Limited	1,874	18		(66)
PT KEPCO Resource Indonesia	1,210			(217)
EWP Barbados 1 SRL	260,638	370	2,829	273
Gyeonggi Green Energy Co., Ltd.	315,299	249,608	104,674	(4,111)
PT. Tanggamus Electric Power	106,892	91,416	60,044	(7,138)
Gyeongju Wind Power Co., Ltd.	62,600	27,822	5,993	968
KOMIPO America Inc.	13,487	2,480		218
KOSEP USA, INC.	40,035	4,178	4,975	153
PT. EWP Indonesia	1,039	15		(374)
KEPCO Netherlands J3 B.V.	121,492	81		18,858
Korea Offshore Wind Power Co., Ltd.	7,579	2,317		(4,213)

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****16. Consolidated Subsidiaries, Continued****(3) Summary of financial information of consolidated subsidiaries as of and for the years ended December 31, 2016 and 2015 are as follows, continued:***In millions of won*

Subsidiaries	2015			
	Total assets	Total liabilities	Sales	Profit (loss) for the period
Global One Pioneer B.V.	40	20		(48)
Global Energy Pioneer B.V.	42	20		(48)
Mira Power Limited	110,918	66,963		(1,581)
KOSEP Material Co., Ltd.	29,768	28,013	26,310	(17,665)
Commerce and Industry Energy Co., Ltd.	99,638	86,727	24,774	(3,387)
KEPCO Singapore Holdings Pte., Ltd.	1,817			(9)
KOWEPO India Private Limited	911	10		(105)
KEPCO KPS Philippines Corp.	5,688	953	14,278	1,677
KOSPO Chile SpA	133	4,642		(942)
PT. KOWEPO Sumsel Operation and Maintenance Services	2,053	51	5,405	1,762
HeeMang Sunlight Power Co., Ltd.	4,711			(9)
Fujejj Wind Power Company	83			
KOSPO Younnam Power Co.,Ltd.	82,173	32,166		7

(\*) Financial information of EWP America Inc. includes that of seven other subsidiaries, EWP Renewable Co., DG Fairhaven Power, LLC, DG Kings Plaza, LLC, DG Whitefield, LLC, Springfield Power, LLC, California Power Holdings, LLC, and EWPRC Biomass Holdings, LLC.

**(4) Significant restrictions on abilities to subsidiaries are as follows:**

Company	Nature and extent of any significant restrictions
Gyeonggi Green Energy Co., Ltd.	Acquisition or disposal of assets of more than ₩35 billion, change in the capacity of cogeneration units (except for the change due to performance improvement of equipment, maintenance) will require unanimous consent of all

directors.

KOSPO Youngnam Power  
Co., Ltd.

Dividends can only be paid when all conditions of the loan agreement are satisfied or prior written consent of financial institutions is obtained. Shares cannot be wholly or partially transferred without prior written consent of financial institutions.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****16. Consolidated Subsidiaries, Continued**

(5) Details of non-controlling interest prior to intra-group eliminations as of and for the years ended December 31, 2016 and 2015 are as follows:

*In millions of won*

Description	2016			Others	Total
	KEPCO Ilijan Corporation	KEPCO Plant Service & Engineering Co., Ltd.	KEPCO Engineering & Construction Company, Inc.		
Percentage of ownership	49.00%	49.00%	33.92%		
Current assets	₩ 154,758	553,924	270,553	1,211,510	2,190,745
Non-current assets	403,272	532,497	516,043	2,379,882	3,831,694
Current liabilities	(19,256)	(264,506)	(286,444)	(297,510)	(867,716)
Non-current liabilities	(39,193)	(36,984)	(78,232)	(1,919,924)	(2,074,333)
Net assets	499,581	784,931	421,920	1,373,958	3,080,390
Book value of non-controlling interest	244,794	384,616	143,115	684,093	1,456,618
Sales	116,667	1,214,304	506,012	674,461	2,511,444
Profit for the period	51,552	86,657	17,796	102,170	258,175
Profit for the period attributable to non-controlling interest	25,260	42,462	6,036	26,709	100,467
Cash flows from operating activities	102,546	121,240	18,748	84,086	326,620
Cash flows from investing activities	(117)	79,807	(7,556)	(367,674)	(295,540)
Cash flows from financing activities before dividends to non-controlling interest	(56,863)	(39,911)	(1,634)	877,863	779,455
Dividends to non-controlling interest	(55,705)	(36,139)	(2,539)	(22,054)	(116,437)
Effect of exchange rate fluctuation	1,529	127	(854)	7,216	8,018
Net increase (decrease) of cash and cash equivalents	(8,610)	125,124	6,165	579,437	702,116

*In millions of won*

Description	2015				
	KEPCO Ilijan Corporation	KEPCO Plant Service & Engineering Co., Ltd.	KEPCO Engineering & Construction Company, Inc.	Others	Total
Percentage of ownership	49.00%	47.52%	33.37%		
Current assets	₩ 161,855	547,152	341,559	631,442	1,682,008
Non-current assets	442,010	482,152	513,597	1,976,302	3,414,061
Current liabilities	(22,522)	(195,030)	(342,315)	(296,152)	(856,019)
Non-current liabilities	(36,050)	(51,312)	(96,056)	(1,566,200)	(1,749,618)
Net assets	545,293	782,962	416,785	745,392	2,490,432
Book value of non-controlling interest	267,194	372,064	139,081	644,787	1,423,126
Sales	126,234	1,171,082	657,603	637,544	2,592,463
Profit for the period	54,596	168,632	31,047	61,554	315,829
Profit for the period attributable to non-controlling interest	26,752	78,852	10,360	11,802	127,766
Cash flows from operating activities	83,697	140,625	11,280	(29,888)	205,714
Cash flows from investing activities	(16,021)	(104,477)	(134,874)	(178,241)	(433,613)
Cash flows from financing activities before dividends to non-controlling interest	(39,730)	(40,581)	69,955	226,976	216,620
Dividends to non-controlling interest	(36,080)	(34,569)	(7,300)	(24,577)	(102,526)
Effect of exchange rate fluctuation	4,123	3	(51)	6,399	10,474
Net increase (decrease) of cash and cash equivalents	(4,011)	(38,999)	(60,990)	669	(103,331)

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****16. Consolidated Subsidiaries, Continued****(6) Changes in goodwill**

(i) Details of goodwill as of December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Acquisition cost	₩ 2,582	2,582
Accumulated impairment		
Carrying book value	₩ 2,582	2,582

(ii) There are no changes in goodwill for the years ended December 31, 2016 and 2015.

**(7) Disposals of subsidiaries**

KEPCO Canada Uranium Investment Limited Partnership was dissolved and the Company liquidated DG Kings Plaza, LLC during the year ended December 31, 2016. The Company disposed of the shares of Boulder Solar Power, LLC and liquidated KOWEPO America LLC during the year ended December 31, 2015.

(i) The fair value of consideration as of December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Consideration received in cash	₩ 898	10,664
Fair value of remaining shares after disposal		13,860
Net assets transferred due to dissolution	34,148	
	₩ 35,046	24,524



- (ii) The carrying value of assets and liabilities of subsidiaries as at the date the Company lost its control during the year ended December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Current assets	₩	
Cash and cash equivalents	898	10,071
Current financial assets, net	81	1,077
Non-current assets		
Available-for-sale financial assets	34,089	
Property, plant and equipment, net		2,460
Other		2,893
Current liabilities		
Current financial liabilities	(22)	
Current non-financial liabilities		(7)
	₩ 35,046	16,494

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****16. Consolidated Subsidiaries, Continued****(7) Disposals of subsidiaries, continued**

(iii) Gain from disposals of subsidiaries for the year ended December 2016 and 2015 are as follows:

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Fair value of sale price	₩ 35,046	24,524
Net assets disposed	(35,046)	(16,494)
Non-controlling interests		
Realization of unrealized gain		
Other comprehensive income (*1)		346
Gain from disposals of subsidiaries (*2)	₩	8,376

(\*1) This represents the amount subsequently reclassified from other comprehensive income to profit for the period when the Company lost its control of the subsidiaries.

(\*2) Gain from disposals of subsidiaries is included in the consolidated financial statements of comprehensive income.

(iv) Net cashflow from sales of subsidiaries for the year ended December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Consideration received in cash	₩ 898	10,664
Less: cash held by disposed subsidiaries	(898)	(10,071)
Net cash flow	₩	593

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****17. Investments in Associates and Joint Ventures****(1) Investments in associates and joint ventures as of December 31, 2016 and 2015 are as follows:***In millions of won*

Investees	Key operation activities	Location	Percentage of ownership	2016	
				Acquisition cost	Book value
<b>&lt;Associates&gt;</b>					
Korea Gas Corporation (*1)	Importing and wholesaling LNG	KOREA	20.47%	₩ 94,500	1,933,877
Korea Electric Power Industrial Development Co., Ltd.	Electricity metering and others	KOREA	29.00%	4,727	20,475
YTN Co., Ltd.	Broadcasting	KOREA	21.43%	59,000	38,156
Cheongna Energy Co., Ltd.	Generating and distributing vapor and hot/cold water	KOREA	43.90%	48,353	12,373
Gangwon Wind Power Co., Ltd. (*2)	Power generation	KOREA	15.00%	5,725	13,069
Hyundai Green Power Co., Ltd.	Power generation	KOREA	29.00%	88,885	115,998
Korea Power Exchange (*6)	Management of power market and others	KOREA	100.00%	127,839	223,238
AMEC Partners Korea Ltd. (*3)	Resources development	KOREA	19.00%	707	225
Hyundai Energy Co., Ltd. (*9)	Power generation	KOREA	30.66%	71,070	1,031
Ecollite Co., Ltd.	Artificial light-weight aggregate	KOREA	36.10%	1,516	
Taebaek Wind Power Co., Ltd.	Power generation	KOREA	25.00%	3,810	4,750
Taebaek Guinemi Wind Power Co., Ltd. (formerly, Muju Wind Power Co., Ltd.)	Power generation	KOREA	25.00%	3,420	3,131
Pyeongchang Wind Power Co., Ltd.	Power generation	KOREA	25.00%	3,875	3,383
Daeryun Power Co., Ltd. (*3, 10)	Power generation	KOREA	13.13%	25,477	29,873

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Changjuk Wind Power Co., Ltd.	Power generation	KOREA	30.00%	3,801	6,930
KNH Solar Co., Ltd.	Power generation	KOREA	27.00%	1,296	2,073
SPC Power Corporation	Power generation	PHILIPPINES	38.00%	20,635	56,818
Gemeng International Energy Co., Ltd.	Power generation	CHINA	34.00%	413,153	680,065
PT. Cirebon Electric Power	Power generation	INDONESIA	27.50%	40,365	96,658
KNOC Nigerian East Oil Co., Ltd. (*4)	Resources development	NIGERIA	14.63%	12	
KNOC Nigerian West Oil Co., Ltd. (*4)	Resources development	NIGERIA	14.63%	12	
PT Wampu Electric Power	Power generation	INDONESIA	46.00%	21,292	23,188
PT. Bayan Resources TBK	Resources development	INDONESIA	20.00%	615,860	402,667
S-Power Co., Ltd.	Power generation	KOREA	49.00%	132,300	123,912
Pioneer Gas Power Limited (*8)	Power generation	INDIA	40.00%	49,831	50,740
Eurasia Energy Holdings	Power generation and resources development	RUSSIA	40.00%	461	
Xe-Pian Xe-Namnoy Power Co., Ltd.	Power generation	LAOS	25.00%	49,119	51,544
Hadong Mineral Fiber Co., Ltd. (*17)	Recycling fly ashes	KOREA	8.33%	50	
Green Biomass Co., Ltd. (*12)	Power generation	KOREA	14.00%	714	47
PT. Mutiara Jawa	Manufacturing and operating floating coal terminal	INDONESIA	29.00%	2,978	
Samcheok Eco Materials Co., Ltd. (*3, 11)	Recycling fly ashes	KOREA	2.35%	686	
Noeul Green Energy Co., Ltd.	Power generation	KOREA	29.00%	1,740	1,217
Naepo Green Energy Co., Ltd.	Power generation	KOREA	25.00%	29,200	25,438
Goseong Green Energy Co., Ltd. (*2)	Power generation	KOREA	1.12%	2,900	2,663
Gangneung Eco Power Co., Ltd. (*2)	Power generation	KOREA	1.61%	2,900	2,646
Shin Pyeongtaek Power Co., Ltd.	Power generation	KOREA	40.00%	40	
Heang Bok Do Si Photovoltaic Power Co., Ltd.	Power generation	KOREA	28.00%	194	181
DS POWER Co., Ltd. (*2)	Power generation	KOREA	14.44%	17,900	7,190
Dongducheon Dream Power Co., Ltd.	Power generation	KOREA	33.61%	61,535	46,876
KS Solar Co., Ltd. (*3)	Power generation	KOREA	19.00%	637	604
Yeongwol Energy Station Co., Ltd. (*2)	Power generation	KOREA	10.00%	1,400	

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Jinhuvish Power Generation Pvt. Ltd. (*2)	Power generation	INDIA	5.16%	9,000	
SE Green Energy Co., Ltd.	Power generation support	KOREA	47.76%	3,821	3,525
Daegu Photovoltaic Co., Ltd.	Power generation	KOREA	29.00%	1,230	1,700
Jeongam Wind Power Co., Ltd.	Power generation	KOREA	40.00%	5,580	4,000
Korea Power Engineering Service Co., Ltd.	Construction and service	KOREA	29.00%	290	2,810
Busan Green Energy Co., Ltd.	Power generation	KOREA	29.00%	14,564	13,803
Jungbu Bio Energy Co., Ltd. (*2)	Power generation	KOREA	18.87%	1,000	
Korea Electric Vehicle Charging Service	Electric vehicle charge service	KOREA	28.00%	1,596	1,103
Ulleungdo Natural Energy Co., Ltd.	Renewable power generation	KOREA	29.85%	8,000	6,894
Korea Nuclear Partners Co., Ltd.	Electric material agency	KOREA	29.00%	290	248
Tamra Offshore Wind Power Co., Ltd.	Power generation	KOREA	27.00%	8,910	7,015
Korea Electric Power Corporation Fund (*13)	Developing electric enterprises	KOREA	98.09%	51,500	50,856
Energy Infra Asset Management Co., Ltd. (*3)	Asset management	KOREA	9.90%	297	259
Daegu clean Energy Co., Ltd.	Renewable power generation	KOREA	28.00%	140	140
YaksuESS Co.,Ltd	Installing ESS related equipment	KOREA	29.00%	210	196

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****17. Investments in Associates and Joint Ventures, Continued****(1) Investments in associates and joint ventures as of December 31, 2016 and 2015 are as follows, continued:***In millions of won*

Investees	Key operation activities	Location	2016		Book value
			Percentage of ownership	Acquisition cost	
Nepal Water & Energy Development Company Private Limited (*14)	Construction and operation of utility plant	NEPAL	52.77%	₩ 18,568	18,667
				2,134,911	4,092,252
<b>&lt;Joint ventures&gt;</b>					
KEPCO-Uhde Inc. (*7)	Power generation	KOREA	52.8%	11,355	301
Eco Biomass Energy Sdn. Bhd. (*7)	Power generation	MALAYSIA	61.53%	9,661	
Datang Chaoyang Renewable Power Co., Ltd.	Power generation	CHINA	40.00%	27,660	28,239
Shuweihaat Asia Power Investment B.V.	Holding company	NETHERLANDS	49.00%	46,037	
Shuweihaat Asia Operation & Maintenance Company (*7)	Maintenance of utility plant	CAYMAN	55.00%	30	450
Waterbury Lake Uranium L.P.	Resources development	CANADA	36.97%	26,602	21,314
ASM-BG Investicii AD	Power generation	BULGARIA	50.00%	16,101	21,488
RES Technology AD	Power generation	BULGARIA	50.00%	15,595	13,582
KV Holdings, Inc.	Power generation	PHILIPPINES	40.00%	2,103	2,098
KEPCO SPC Power Corporation (*7)	Construction and operation of utility plant	PHILIPPINES	75.20%	94,579	245,367
Canada Korea Uranium Limited Partnership (*5)	Resources development	CANADA	12.50%	5,404	
Gansu Datang Yumen Wind Power Co., Ltd.	Power generation	CHINA	40.00%	16,621	12,821

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Datang Chifeng Renewable Power Co., Ltd.	Power generation	CHINA	40.00%	121,928	166,535
Datang KEPCO Chaoyang Renewable Power Co., Ltd.	Power generation	CHINA	40.00%	10,858	10,843
Rabigh Electricity Company	Power generation	SAUDI ARABIA	40.00%	109,743	97,802
Rabigh Operation & Maintenance Company	Maintenance of utility plant	SAUDI ARABIA	40.00%	70	4,427
Jamaica Public Service Company Limited	Power generation	JAMAICA	40.00%	301,910	249,453
KW Nuclear Components Co., Ltd.	Manufacturing	KOREA	45.00%	833	7,133
Busan Shinho Solar Power Co., Ltd.	Power generation	KOREA	25.00%	2,100	3,814
GS Donghae Electric Power Co., Ltd.	Power generation	KOREA	34.00%	204,000	205,948
Global Trade Of Power System Co., Ltd.	Exporting products and technology of small or medium business by proxy	KOREA	29.00%	290	477
Expressway Solar-light Power Generation Co., Ltd.	Power generation	KOREA	29.00%	1,856	2,343
KODE NOVUS I LLC	Power generation	USA	50.00%	19,213	
KODE NOVUS II LLC	Power generation	USA	50.00%	12,756	
Daejung Offshore Wind Power Co., Ltd.	Power generation	KOREA	49.90%	4,990	3,015
Amman Asia Electric Power Company (*7)	Power generation	JORDAN	60.00%	111,476	153,857
KAPES, Inc. (formerly, KEPCO-ALSTOM Power Electronics Systems, Inc.) (*7)	R&D	KOREA	51.00%	5,629	4,758
Dangjin Eco Power Co., Ltd.	Power generation	KOREA	34.00%	56,100	53,253
Honam Wind Power Co., Ltd.	Power generation	KOREA	29.00%	3,480	4,451
Chun-cheon Energy Co., Ltd.	Power generation	KOREA	29.90%	52,700	50,592
Yeonggwangbaeksu Wind Power Co., Ltd. (*3)	Power generation	KOREA	15.00%	3,000	2,689
Nghi Son 2 Power Ltd.	Power generation	VIETNAM	50.00%	1,788	229
Kelar S.A (*7)	Power generation	CHILE	65.00%	4,180	
PT. Tanjung Power Indonesia	Power generation	INDONESIA	35.00%	746	1,946
Incheon New Power Co., Ltd.	Power generation	KOREA	29.00%	461	563
Seokmun Energy Co., Ltd.	Power generation	KOREA	29.00%	580	391
Daehan Wind Power PSC	Power generation	JORDAN	50.00%	285	16
	Power generation	UAE	18.00%	118	116

Barakah One Company (*16)					
Nawah Energy Company (*16)	Operation of utility plant	UAE	18.00%	296	290
MOMENTUM	International thermonuclear experimental reactor construction management	FRANCE	33.33%	1	67
Daegu Green Power Co., Ltd. (*15)	Power generation	KOREA	29.00%	46,225	47,528
				1,349,360	1,418,196
				₩ 3,484,271	5,510,448



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**KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES**

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**17. Investments in Associates and Joint Ventures, Continued**

**(1) Investments in associates and joint ventures as of December 31, 2016 and 2015 are as follows, continued:**

- (\*1) The effective percentage of ownership is 21.57% considering treasury stocks.
- (\*2) 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.
- (\*3) The Company can exercise significant influence by virtue of its contractual right to appoint a director to the board of directors of the entity.
- (\*4) 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, which can affect its influence on the entity.
- (\*5) The Company has joint control over the entity 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.
- (\*6) The Government regulates the Company's ability to make operating and financial decisions over the entity, as the Government 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.
- (\*7) According to the shareholders' 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.
- (\*8) As of reporting date, the reporting period of all associates and joint ventures ends in December 31, except for Pioneer Gas Power Limited whose reporting period ends on March 31.
- (\*9) As of December 31, 2016, 15.64% of ownership of Hyundai Energy Co., Ltd. is held by NH Power II Co., Ltd. and NH Bank. According to the shareholders' agreement reached on March 2011, not only does the Company have a call option to acquire the investment in Hyundai Energy Co., Ltd. from NH Power II Co., Ltd. and NH Bank with a certain rate of return, NH Power II Co., Ltd. and NH Bank also have put options to dispose of their investment to the Company. In connection with this agreement, the Company applied the equity method on the investment in Hyundai Energy Co., Ltd. with 46.30% of ownership.
- (\*10) The Company's percentage of ownership has decreased due to the acquisition of Daeryun Power Co., Ltd. and the effective percentage of ownership is 19.45% considering stock purchase options.
- (\*11) The Company's effective percentage of ownership excluding the redeemable convertible preferred stock is 25.54%.
- (\*12) The effective percentage of ownership is less than 20% but the Company can exercise significant influence by virtue of its contractual right to appoint a director to the board of directors of the entity and the fact that the dominant portion of the investee's sales transactions is generated from the Company.
- (\*13)

The effective percentage of ownership is more than 50% but the Company does not hold control over relevant business while it exercises significant influence by participating in the Investment Decision Committee. For this reason, the entity is classified as an associate.

(\*14) The effective percentage of ownership is more than 50%, but the Company does not control the entity according to the shareholders' agreement. For this reason, the entity is classified as an associate.

(\*15) The entity is reclassified from associates to joint ventures since the terms of the shareholders' agreement had been amended.

(\*16) The effective percentage of ownership is less than 20%, but the Company has joint control over the entity as decisions on the major activities require the unanimous consent of the parties that collectively control the entity.

(\*17) Although the percentage of ownership temporarily decreased to 8.33% from the difference in timing of capital payment by shareholders, the Company can exercise significant influence by virtue of its right to appoint a director to the board of directors of the entity based on the shareholders' agreement. The percentage of ownership is 25.00% at the time of completion of capital payment.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****17. Investments in Associates and Joint Ventures, Continued****(1) Investments in associates and joint ventures as of December 31, 2016 and 2015 are as follows, continued:***In millions of won*

Investees	Key operation activities	2015		Acquisition cost	Book value
		Location	Percentage of ownership		
<b>&lt;Associates&gt;</b>					
Daegu Green Power Co., Ltd.	Power generation	KOREA	47.80%	₩ 76,193	80,267
Korea Gas Corporation (*1)	Importing and wholesaling LNG	KOREA	20.47%	94,500	2,102,813
Korea Electric Power Industrial Development Co., Ltd.	Electricity metering and others	KOREA	29.00%	4,727	18,994
YTN Co., Ltd.	Broadcasting	KOREA	21.43%	59,000	38,365
Cheongna Energy Co., Ltd.	Generating and distributing vapor and hot/cold water	KOREA	43.90%	48,353	19,490
Gangwon Wind Power Co., Ltd. (*2)	Power generation	KOREA	15.00%	5,725	12,890
Hyundai Green Power Co., Ltd.	Power generation	KOREA	29.00%	88,885	113,664
Korea Power Exchange (*6)	Management of power market and others	KOREA	100.00%	127,839	208,735
AMEC Partners Korea Ltd. (*3)	Resources development	KOREA	19.00%	707	230
Hyundai Energy Co., Ltd. (*9)	Power generation	KOREA	30.66%	30,118	6,990
Ecollite Co., Ltd.	Artificial light-weight aggregate	KOREA	36.10%	1,516	
Taebaek Wind Power Co., Ltd.	Power generation	KOREA	25.00%	3,810	4,956
Taebaek Guinemi Wind Power Co., Ltd. (formerly, Muju Wind Power Co., Ltd.)	Power generation	KOREA	25.00%	2,850	2,587
	Power generation	KOREA	25.00%	3,875	3,402

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Pyeongchang Wind Power Co., Ltd.					
Daeryun Power Co., Ltd. (*3, 10)	Power generation	KOREA	13.13%	25,477	36,156
JinanJangsu Wind Power Co., Ltd.	Power generation	KOREA	25.00%	100	77
Changjuk Wind Power Co., Ltd.	Power generation	KOREA	30.00%	3,801	6,143
KNH Solar Co., Ltd.	Power generation	KOREA	27.00%	1,296	1,924
SPC Power Corporation	Power generation	PHILIPPINES	38.00%	20,635	58,033
Gemeng International Energy Co., Ltd.	Power generation	CHINA	34.00%	413,153	728,396
PT. Cirebon Electric Power	Power generation	INDONESIA	27.50%	40,365	60,574
KNOC Nigerian East Oil Co., Ltd. (*4)	Resources development	NIGERIA	14.63%	12	
KNOC Nigerian West Oil Co., Ltd. (*4)	Resources development	NIGERIA	14.63%	12	
Dolphin Property Limited (*4)	Rental company	NIGERIA	15.00%	12	61
PT Wampu Electric Power	Power generation	INDONESIA	46.00%	21,292	18,963
PT. Bayan Resources TBK	Resources development	INDONESIA	20.00%	615,860	525,066
S-Power Co., Ltd.	Power generation	KOREA	49.00%	132,300	130,908
Pioneer Gas Power Limited (*8)	Power generation	INDIA	40.00%	49,831	51,187
Eurasia Energy Holdings	Power generation and resources development	RUSSIA	40.00%	461	
Xe-Pian Xe-Namnoy Power Co., Ltd.	Power generation	LAOS	25.00%	32,717	31,863
Busan Solar Co., Ltd. (*3)	Power generation	KOREA	19.80%	793	925
Hadong Mineral Fiber Co., Ltd.	Recycling fly ashes	KOREA	25.00%	50	
Green Biomass Co., Ltd. (*12)	Power generation	KOREA	14.00%	714	
PT. Mutiara Jawa	Manufacturing and operating floating coal terminal	INDONESIA	29.00%	2,978	
Samcheok Eco Materials Co., Ltd. (*3, 11)	Recycling fly ashes	KOREA	2.67%	686	
Noeul Green Energy Co., Ltd.	Power generation	KOREA	20.00%	400	295
Naepo Green Energy Co., Ltd.	Power generation	KOREA	25.00%	29,200	26,746
Goseong Green Energy Co., Ltd. (*2)	Power generation	KOREA	2.90%	2,900	2,670
Gangneung Eco Power Co., Ltd. (*2)	Power generation	KOREA	3.72%	2,900	2,688

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Shin Pyeongtaek Power Co., Ltd.	Power generation	KOREA	40.00%	40	
Heang Bok Do Si Photovoltaic Power Co., Ltd.	Power generation	KOREA	28.00%	194	189
DS POWER Co., Ltd. (*2)	Power generation	KOREA	14.44%	17,900	10,960
Dongducheon Dream Power Co., Ltd.	Power generation	KOREA	33.61%	61,535	55,667
KS Solar Co., Ltd. (*3)	Power generation	KOREA	19.00%	637	618
Yeongwol Energy Station Co., Ltd. (*2)	Power generation	KOREA	10.00%	1,400	1,290
Jimbhuvish Power Generation Pvt. Ltd. (*2)	Power generation	INDIA	5.16%	9,000	8,350
SE Green Energy Co., Ltd.	Power generation	KOREA	47.76%	3,821	3,575
Daegu Photovoltaic Co., Ltd.	Power generation	KOREA	29.00%	1,230	1,886
Jeongam Wind Power Co., Ltd.	Power generation	KOREA	40.00%	1,680	702
Korea Power Engineering Service Co., Ltd.	Construction and service	KOREA	29.00%	290	1,805
Busan Green Energy Co., Ltd.	Power generation	KOREA	29.00%	14,564	14,512
Jungbu Bio Energy Co., Ltd. (*2)	Power generation	KOREA	18.87%	1,000	904
Korea Electric Vehicle Charging Service	Electric vehicle charge service	KOREA	28.00%	1,596	1,446
Ulleungdo Natural Energy Co., Ltd.	Renewable power generation	KOREA	29.85%	8,000	7,417
Korea Nuclear Partners Co., Ltd.	Electric material agency	KOREA	29.00%	290	289
				2,069,220	4,405,668

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****17. Investments in Associates and Joint Ventures, Continued****(1) Investments in associates and joint ventures as of December 31, 2016 and 2015 are as follows, continued:***In millions of won*

Investees	Key operation activities	Location	2015		Book value
			Percentage of ownership	Acquisition cost	
<b>&lt;Joint ventures&gt;</b>					
KEPCO-Uhde Inc. (*7)	Power generation	KOREA	52.80%	₩ 11,355	8,549
Eco Biomass Energy Sdn. Bhd. (*7)	Power generation	MALAYSIA	61.53%	9,661	
Datang Chaoyang Renewable Power Co., Ltd.	Power generation	CHINA	40.00%	27,660	27,640
Shuweihaat Asia Power Investment B.V.	Holding company	NETHERLANDS	49.00%	60,191	20,474
Shuweihaat Asia Operation & Maintenance Company (*7)	Maintenance of utility plant	CAYMAN	55.00%	30	486
Waterbury Lake Uranium L.P.	Resources development	CANADA	40.00%	26,602	20,299
ASM-BG Investicii AD	Power generation	BULGARIA	50.00%	16,101	20,203
RES Technology AD	Power generation	BULGARIA	50.00%	15,595	13,789
KV Holdings, Inc.	Power generation	PHILIPPINES	40.00%	2,103	2,010
KEPCO SPC Power Corporation (*7)	Construction and operation of utility plant	PHILIPPINES	75.20%	94,579	208,524
Canada Korea Uranium Limited Partnership (*5)	Resources development	CANADA	12.50%	5,404	
KEPCO Energy Resource Nigeria Limited	Holding company	NIGERIA	30.00%	8,463	
Gansu Datang Yumen Wind Power Co., Ltd.	Power generation	CHINA	40.00%	16,621	16,107
Datang Chifeng Renewable Power Co., Ltd.	Power generation	CHINA	40.00%	121,928	171,224
	Power generation	CHINA	40.00%	10,858	10,580

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Datang KEPCO Chaoyang  
Renewable Power Co.,  
Ltd.

Rabigh Electricity Company	Power generation	SAUDI ARABIA	40.00%	109,743	59,368
Rabigh Operation & Maintenance Company	Maintenance of utility plant	SAUDI ARABIA	40.00%	70	3,586
Jamaica Public Service Company Limited	Power generation	JAMAICA	40.00%	301,910	241,918
KW Nuclear Components Co., Ltd.	Manufacturing	KOREA	45.00%	833	4,985
Busan Shinho Solar Power Co., Ltd.	Power generation	KOREA	25.00%	2,100	3,678
GS Donghae Electric Power Co., Ltd.	Power generation	KOREA	34.00%	204,000	200,379
Global Trade Of Power System Co., Ltd.	Exporting products and technology of small or medium business by proxy	KOREA	29.00%	290	426
Expressway Solar-light Power Generation Co., Ltd.	Power generation	KOREA	29.00%	1,856	2,100
KODE NOVUS I LLC	Power generation	USA	50.00%	19,213	
KODE NOVUS II LLC	Power generation	USA	49.00%	12,498	
Daejung Offshore Wind Power Co., Ltd.	Power generation	KOREA	49.90%	4,990	3,352
Amman Asia Electric Power Company (*7)	Power generation	JORDAN	60.00%	111,476	137,668
KAPES, Inc. (formerly, KEPCO-ALSTOM Power Electronics Systems, Inc.) (*7)	R&D	KOREA	51.00%	5,629	4,501
Dangjin Eco Power Co., Ltd.	Power generation	KOREA	34.00%	51,000	48,281
Honam Wind Power Co., Ltd.	Power generation	KOREA	29.00%	3,480	3,926
Nepal Water & Energy Development Company Private Limited (*7)	Construction and operation of utility plant	NEPAL	52.77%	18,568	17,765
Chun-cheon Energy Co., Ltd.	Power generation	KOREA	29.90%	32,868	31,976
Yeonggwangbaeksu Wind Power Co., Ltd. (*3)	Power generation	KOREA	15.00%	3,000	2,668
Nghi Son 2 Power Ltd.	Power generation	VIETNAM	50.00%	1,072	269
Kelar S.A (*7)	Power generation	CHILE	65.00%	4,180	
PT. Tanjung Power Indonesia	Power generation	INDONESIA	35.00%	746	617
Incheon New Power Co., Ltd.	Power generation	KOREA	29.00%	461	514
Seokmun Energy Co., Ltd.	Power generation	KOREA	29.00%	580	

1,317,714 1,287,862

₩ 3,386,934 5,693,530



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**KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES**

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**17. Investments in Associates and Joint Ventures, Continued**

**(1) Investments in associates and joint ventures as of December 31, 2016 and 2015 are as follows, continued:**

- (\*1) The effective percentage of ownership is 21.57% considering treasury stocks.
- (\*2) 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.
- (\*3) The Company can exercise significant influence by virtue of its contractual right to appoint a director to the board of directors of the entity.
- (\*4) 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, which can affect its influence on the entity.
- (\*5) The Company has joint control over the entity 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.
- (\*6) The Government regulates the Company's ability to make operating and financial decisions over the entity, as the Government 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.
- (\*7) According to the shareholders' 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.
- (\*8) As of reporting date, the reporting period of all associates and joint ventures ends in December 31, except for Pioneer Gas Power Limited whose reporting period ends on March 31.
- (\*9) As of December 31, 2015, 15.64% of ownership of Hyundai Energy Co., Ltd. is held by NH Power II Co., Ltd. and NH Bank. According to the shareholders' agreement reached on March 2011, not only does the Company have a call option to acquire the investment in Hyundai Energy Co., Ltd. from NH Power II Co., Ltd. and NH Bank with a certain rate of return, NH Power II Co., Ltd. and NH Bank also have put options to dispose of their investment to the Company. In connection with this agreement, the Company applied the equity method on the investment in Hyundai Energy Co., Ltd. with 46.30% of ownership.
- (\*10) The Company's percentage of ownership has decreased due to the acquisition of Daeryun Power Co., Ltd. and the effective percentage of ownership is 19.45% considering stock purchase options.
- (\*11) The Company's effective percentage of ownership excluding the redeemable convertible preferred stock is 25.54%.
- (\*12) The effective percentage of ownership is less than 20% but the Company can exercise significant influence by virtue of its contractual right to appoint a director to the board of directors of the entity and the fact that the dominant portion of the investee's sales transactions is generated from the Company.

- (2) The fair value of associates which are actively traded on the open market and have a readily available market value as of December 31, 2016 and 2015 are as follows:

*In millions of won*

<b>Investees</b>	<b>2016</b>	<b>2015</b>
<b>&lt;Associates&gt;</b>		
Korea Electric Power Industrial Development Co., Ltd.	₩ 45,474	46,514
Korea Gas Corporation	915,705	696,465
YTN Co., Ltd.	22,320	26,235
SPC Power Corporation	70,253	65,552
PT. Bayan Resources TBK	359,200	446,250

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****17. Investments in Associates and Joint Ventures, Continued****(3) Changes in investments in associates and joint ventures for the years ended December 31, 2016 and 2015 are as follows:***In millions of won*

Investees	2016							Ending balance
	Beginning balance	Acquisition	Disposal	Dividends received	Share of comprehensive income (loss)	Other comprehensive income (loss) Others		
<b>&lt;Associates&gt;</b>								
Daegu Green Power Co., Ltd.	₩ 80,267	3,347	(34,422)		(1,814)	148	(47,526)	
Korea Gas Corporation	2,102,813			(3,213)	(146,308)	(14,551)	(4,864)	1,933,877
Korea Electric Power Industrial Development Co., Ltd.	18,994			(1,598)	4,491		(1,412)	20,475
YTN Co., Ltd.	38,365				(227)	32	(14)	38,156
Cheongna Energy Co., Ltd.	19,490				(7,117)			12,373
Gangwon Wind Power Co., Ltd.	12,890			(1,136)	1,270	45		13,069
Hyundai Green Power Co., Ltd.	113,664			(8,888)	11,222			115,998
Korea Power Exchange	208,735				15,847		(1,344)	223,238
AMEC Partners Korea Ltd.	230				(5)			225
Hyundai Energy Co., Ltd.	6,990				(21,163)		15,204	1,031
Ecollite Co., Ltd.								
Taebaek Wind Power Co., Ltd.	4,956				(206)			4,750
Taebaek Guinemi Wind Power Co.,	2,587	570			(26)			3,131

Ltd. (formerly, Muju Wind Power Co., Ltd.)						
Pyeongchang Wind Power Co., Ltd.	3,402		(19)			3,383
Daeryun Power Co., Ltd.	36,156		(6,282)	(1)		29,873
JinanJangsu Wind Power Co., Ltd.	77	(64)	(13)			
Changjuk Wind Power Co., Ltd.	6,143		(190)	977		6,930
KNH Solar Co., Ltd.	1,924			144	5	2,073
SPC Power Corporation	58,033		(7,151)	6,416	(477)	(3)
Gemeng International Energy Co., Ltd.	728,396		(16,476)	26,714	(58,493)	(76)
PT. Cirebon Electric Power	60,574		(1,242)	31,511	2,568	3,247
KNOC Nigerian East Oil Co., Ltd.				(1,346)	(398)	1,744
KNOC Nigerian West Oil Co., Ltd.				(973)	(356)	1,329
Dolphin Property Limited	61		(35)		(69)	43
PT Wampu Electric Power	18,963			3,493	(3)	735
PT. Bayan Resources TBK (*2)	525,066			(23,257)	208	(99,350)
S-Power Co., Ltd.	130,908			(7,006)		10
Pioneer Gas Power Limited	51,187			(698)	251	
Eurasia Energy Holdings Xe-Pian Xe-Namnoy Power Co., Ltd.	31,863	16,402		1,576	1,703	
Busan Solar Co., Ltd.	925		(887)	(38)		
Hadong Mineral Fiber Co., Ltd.						
Green Biomass Co., Ltd.				(138)		185
PT. Mutiara Jawa Samcheok Eco Materials Co., Ltd.						
Noeul Green Energy Co., Ltd.	295	1,340		(418)		
	26,746			(1,308)		

Naepo Green Energy Co., Ltd.					
Goseong Green Energy Co., Ltd.	2,670		71	(78)	2,663
Gangneung Eco Power Co., Ltd.	2,688		56	(98)	2,646
Shin Pyeongtaek Power Co., Ltd.					
Heang Bok Do Si Photovoltaic Power Co., Ltd.	189		(10)	2	181
DS POWER Co., Ltd.	10,960		(3,738)	(32)	7,190
Dongducheon Dream Power Co., Ltd.	55,667		(8,757)	(34)	46,876
KS Solar Co., Ltd.	618		(14)		604
Yeongwol Energy Station Co., Ltd. (*1)	1,290		85	25	(1,400)
Jinhuvish Power Generation Pvt. Ltd. (*3)	8,350		(49)	(198)	(8,103)
SE Green Energy Co., Ltd.	3,575		(50)		3,525
Daegu Photovoltaic Co., Ltd.	1,886	(411)	225		1,700
Jeongam Wind Power Co., Ltd.	702	3,900	(602)		4,000
Korea Power Engineering Service Co., Ltd.	1,805		1,005		2,810
Busan Green Energy Co., Ltd.	14,512		(709)		13,803
Jungbu Bio Energy Co., Ltd.	904		(904)		
Korea Electric Vehicle Charging Service	1,446		(343)		1,103

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****17. Investments in Associates and Joint Ventures, Continued****(3) Changes in investments in associates and joint ventures for the years ended December 31, 2016 and 2015 are as follows, continued:***In millions of won*

Investees	2016							Ending balance
	Beginning balance	Acquisition	Disposal	Dividends received	Share of comprehensive income (loss)	Other income (loss)	Others	
Ulleungdo Natural Energy Co., Ltd.	7,417				(516)		(7)	6,894
Korea Nuclear Partners Co., Ltd.	289				(41)			248
Tamra Offshore Wind Power Co., Ltd.		8,910			(1,895)			7,015
Korea Electric Power Corporation Fund		51,500			(644)			50,856
Energy Infra Asset Management Co., Ltd.		297			(38)			259
Daegu clean Energy Co., Ltd.		140						140
YaksuESS Co., Ltd		210			(14)			196
Nepal Water & Energy Development Company Private Limited							18,667	18,667
	4,405,668	86,616	(35,373)	(40,340)	(131,583)	(69,561)	(123,175)	4,092,252
<b>&lt;Joint ventures&gt;</b>								
KEPCO-Uhde Inc. (*4)	8,549				(159)		(8,089)	301
Eco Biomass Energy Sdn. Bhd.	27,640				1,417	(818)		28,239

Datang Chaoyang Renewable Power Co., Ltd.						
Shuweihat Asia Power Investment B.V.	20,474	(14,154)	(2,957)	6,131	(9,494)	
Shuweihat Asia Operation & Maintenance Company	486		(931)	941	(46)	450
Waterbury Lake Uranium L.P.	20,299				1,138	(123)
ASM-BG Investicii AD	20,203			1,508	(223)	21,488
RES Technology AD	13,789			(68)	(139)	13,582
KV Holdings, Inc.	2,010		(302)	429	(39)	2,098
KEPCO SPC Power Corporation	208,524		(5,955)	48,132	(5,308)	(26)
Canada Korea Uranium Limited Partnership						
Gansu Datang Yumen Wind Power Co., Ltd.	16,107			(2,836)	(450)	12,821
Datang Chifeng Renewable Power Co., Ltd.	171,224		(7,384)	7,455	(4,760)	166,535
Datang KEPCO Chaoyang Renewable Power Co., Ltd.	10,580		(440)	1,002	(299)	10,843
Rabigh Electricity Company	59,368			18,961	19,473	97,802
Rabigh Operation & Maintenance Company	3,586		(1,934)	2,253	229	293
Jamaica Public Service Company Limited	241,918				7,535	249,453
KW Nuclear Components Co., Ltd.	4,985		(2,191)	4,344		(5)
Busan Shinho Solar Power Co., Ltd.	3,678		(185)	321		3,814
GS Donghae Electric Power Co., Ltd.	200,379			5,575		(6)
Global Trade Of Power System Co., Ltd.	426			51		477
Expressway Solar-light Power Generation Co., Ltd.	2,100			243		2,343
KODE NOVUS I LLC						
KODE NOVUS II LLC		258		(260)		2
Daejung Offshore Wind Power Co., Ltd.	3,352			(337)		3,015
	137,668		(12,684)	17,811	11,062	153,857

Amman Asia Electric Power Company KAPES, Inc. (formerly, KEPCO-ALSTOM Power Electronics Systems, Inc.)	4,501		311		(54)	4,758
Dangjin Eco Power Co., Ltd.	48,281	5,100	(696)	(26)	594	53,253
Honam Wind Power Co., Ltd.	3,926		(104)	629		4,451
Nepal Water & Energy Development Company Private Limited	17,765		359	543	(18,667)	
Chun-cheon Energy Co., Ltd.	31,976	19,832	(1,121)	(95)		50,592
Yeonggwangbaeksu Wind Power Co., Ltd.	2,668		16		5	2,689
Nghi Son 2 Power Ltd.	269	716	(740)	(16)		229



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****17. Investments in Associates and Joint Ventures, Continued****(3) Changes in investments in associates and joint ventures for the years ended December 31, 2016 and 2015 are as follows, continued:***In millions of won*

Investees	2016							Ending balance
	Beginning balance	Acquisition	Disposal	Dividends received	Share of income (loss)	Other comprehensive income (loss)	Others	
Kelar S.A	₩							
PT. Tanjung Power Indonesia	617				1,337		(8)	1,946
Incheon New Power Co., Ltd.	514				41	8		563
Seokmun Energy Co., Ltd.					(197)	793	(205)	391
Daehan Wind Power PSC		285			(261)	(8)		16
Barakah One Company		118					(2)	116
Nawah Energy Company		296					(6)	290
MOMENTUM		1			65		1	67
Daegu Green Power Co., Ltd.							47,528	47,528
	1,287,862	26,606	(14,154)	(35,067)	112,657	19,060	21,232	1,418,196
	₩ 5,693,530	113,222	(49,527)	(75,407)	(18,926)	(50,501)	(101,943)	5,510,448

(\*1) Others include ₩1,400 million of assets held-for-sale (note 42).

(\*2) It was determined that there is objective evidence of impairment due to prolonged operating losses. As a result, the Company recognized an impairment loss of ₩99,338 million in impairment loss on investments in associates

and joint ventures for the year ended December 31, 2016.

(\*3) Due to discontinue of operations during the current year, the Company recognized an impairment loss of ~~₩~~8,103 million in impairment loss on investments in associates and joint ventures for the year ended December 31, 2016.

(\*4) It was determined that there is objective evidence of impairment due to prolonged operating losses. As a result, the Company recognized an impairment loss of ~~₩~~8,099 million in impairment loss on investments in associates and joint ventures for the year ended December 31, 2016.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****17. Investments in Associates and Joint Ventures, Continued****(3) Changes in investments in associates and joint for the years ended December 31, 2016 and 2015 are as follows, continued;***In millions of won*

Investees	2015						Ending balance
	Beginning balance	Acquisition	Disposal	Dividends received	Share of income (loss)	Other comprehensive income (loss) Others	
<b>&lt;Associates&gt;</b>							
Daegu Green Power Co., Ltd.	₩ 71,387				8,902	(22)	80,267
Korea Gas Corporation	2,097,539			(4,725)	67,949	(55,453) (2,497)	2,102,813
Korea Electric Power Industrial Development Co., Ltd.	21,622			(1,267)	(1,792)	431	18,994
YTN Co., Ltd.	39,889			(90)	(188)	(935) (311)	38,365
Cheongna Energy Co., Ltd.	28,771				(9,281)		19,490
Gangwon Wind Power Co., Ltd.	12,385			(852)	1,279	78	12,890
Hyundai Green Power Co., Ltd.	113,033			(8,889)	9,520		113,664
Korea Power Exchange	198,021				9,944	770	208,735
AMEC Partners Korea Ltd.	200				30		230
Hyundai Energy Co., Ltd. (*1)	35,925				(13,731)	(15,204)	6,990
Ecollite Co., Ltd.							
Taebaek Wind Power Co., Ltd.	5,525				(569)		4,956
Taebaek Guinemi Wind Power Co., Ltd. (formerly, Muju Wind Power Co., Ltd.)	2,706				(119)		2,587
	3,693				(291)		3,402

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Pyeongchang Wind Power Co., Ltd.						
Daeryun Power Co., Ltd.	41,951		(5,798)		3	36,156
JinanJangsu Wind Power Co., Ltd.	77					77
Changjuk Wind Power Co., Ltd.	6,486		(343)			6,143
KNH Solar Co., Ltd.	1,744		178		2	1,924
SPC Power Corporation	47,799		(1,349)	5,375	381	5,827
Gemeng International Energy Co., Ltd.	667,578		(37,163)	51,766	89,481	(43,266)
PT. Cirebon Electric Power	43,335			12,210	5,029	
KNOC Nigerian East Oil Co., Ltd.			(880)		(641)	1,521
KNOC Nigerian West Oil Co., Ltd.			(1,092)		(599)	1,691
Dolphin Property Limited	61					61
PT Wampu Electric Power	16,071	2,357	(600)		1,135	
PT. Bayan Resources TBK	540,011		(11,341)		(3,604)	
S-Power Co., Ltd.	104,244	24,300		2,364		
Pioneer Gas Power Limited	50,668			59	460	
Eurasia Energy Holdings Xe-Pian Xe-Namnoy Power Co., Ltd.	22,152	9,244	(749)		1,216	
Busan Solar Co., Ltd.	853			72		
Hadong Mineral Fiber Co., Ltd.	3		(3)			
Green Biomass Co., Ltd.						
PT. Mutiara Jawa	818		(818)			
Samcheok Eco Materials Co., Ltd.	212		(178)		(34)	
Noeul Green Energy Co., Ltd.	189	200	(91)		(3)	
Naepo Green Energy Co., Ltd.	28,064		(1,318)			
Goseong Green Energy Co., Ltd.	2,586			84		
Gangneung Eco Power Co., Ltd.	2,783		(95)			
Shin Pyeongtaek Power Co., Ltd.						
Heang Bok Do Si Photovoltaic Power Co., Ltd.	221		(32)			
DS POWER Co., Ltd.	15,642		(4,671)		(11)	
	100,545		(3,412)		(41,466)	

Dongducheon Dream Power Co., Ltd. (*2)			
KS Solar Co., Ltd.	325	293	618
Yeongwol Energy Station Co., Ltd.	1,741	(451)	1,290

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****17. Investments in Associates and Joint Ventures, Continued**

(3) Changes in investments in associates and joint for the years ended December 31, 2016 and 2015 are as follows, continued:

*In millions of won*

Investees	2015						
	Beginning balance	Acquisition	Disposal	Dividends received	Share of comprehensive income (loss)	Other income (loss) Others	Ending balance
Jinbhuvis Power Generation Pvt. Ltd.	₩ 8,344				(42)	48	8,350
SE Green Energy Co., Ltd.	3,623				(48)		3,575
Daegu Photovoltaic Co., Ltd.	1,581				305		1,886
Jeongam Wind Power Co., Ltd.	93	880			(271)		702
Korea Power Engineering Service Co., Ltd.	1,334			(44)	542	(27)	1,805
Busan Green Energy Co., Ltd.		14,564			(52)		14,512
Jungbu Bio Energy Co., Ltd.		1,000			(96)		904
Korea Electric Vehicle Charging Service Ulleungdo Natural Energy Co., Ltd.		1,596			(135)	(15)	1,446
Korea Nuclear Partners Co., Ltd.		8,000			(583)		7,417
		290			(1)		289
	4,341,830	62,431		(54,379)	111,801	36,561 (92,576)	4,405,668
<b>&lt;Joint ventures&gt;</b>							
KEPCO-Uhde Inc.	9,042				(493)		8,549

Eco Biomass Energy Sdn. Bhd.							
Datang Chaoyang Renewable Power Co., Ltd.	27,514		(135)	261		27,640	
Shuweiha Asia Power Investment B.V.	16,241	108	4,008	117		20,474	
Shuweiha Asia Operation & Maintenance Company	345		(798)	922	24	(7)	486
Waterbury Lake Uranium L.P.	22,010				(2,507)	796	20,299
ASM-BG Investicii AD	19,608		1,384		(789)		20,203
RES Technology AD	14,725		(318)		(618)		13,789
KV Holdings, Inc.	1,902		74		34		2,010
KEPCO SPC Power Corporation	190,519		(28,986)	43,801	3,190		208,524
Canada Korea Uranium Limited Partnership							
KEPCO Energy Resource Nigeria Limited							
Gansu Datang Yumen Wind Power Co., Ltd.	17,467		(1,546)		186		16,107
Datang Chifeng Renewable Power Co., Ltd.	169,496		(8,239)	8,512	1,464	(9)	171,224
Datang KEPCO Chaoyang Renewable Power Co., Ltd.	10,539			(33)	74		10,580
Rabigh Electricity Company	8,121			21,582	29,703	(38)	59,368
Rabigh Operation & Maintenance Company	4,628		(1,780)	533	205		3,586
Jamaica Public Service Company Limited	226,892				15,027	(1)	241,918
KW Nuclear Components Co., Ltd.	2,899		(1,016)	3,065		37	4,985
Busan Shinho Solar Power Co., Ltd.	3,284			394			3,678
GS Donghae Electric Power Co., Ltd.	201,409			(1,064)		34	200,379
Global Trade Of Power System Co., Ltd.	343			83			426
Expressway Solar-light Power Generation Co., Ltd.	2,087			13			2,100
KODE NOVUS I LLC	12,207		(11,639)		588	(1,156)	
KODE NOVUS II LLC	8,248		(8,104)		413	(557)	
Daejung Offshore Wind Power Co., Ltd.	3,711			(359)			3,352

Amman Asia Electric Power Company	122,391		(19,510)	25,131	10,244	(588)	137,668
KAPES, Inc. (formerly, KEPCO-ALSTOM Power Electronics Systems, Inc.)	4,617			(98)		(18)	4,501
Dangjin Eco Power Co., Ltd.	37,837	20,000	(8,851)	(712)	70	(63)	48,281
Honam Wind Power Co., Ltd.	3,555			371			3,926
Nepal Water & Energy Development Company Private Limited	17,872			(1,277)	1,170		17,765
Chun-cheon Energy Co., Ltd.		32,853		(719)	(158)		31,976
Yeonggwangbaeksu Wind Power Co., Ltd.	2,962			(294)			2,668
Nghi Son 2 Power Ltd.	102	722		(562)	2	5	269



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****17. Investments in Associates and Joint Ventures, Continued****(3) Changes in investments in associates and joint ventures for the years ended December 31, 2016 and 2015 are as follows, continued:***In millions of won*

Investees	Beginning balance	2015		Dividends received	Other		Ending balance	
		Acquisition	Disposal		Share of income (loss)	comprehensive income (loss) Others		
Kelar S.A	₩ 3,156				(407)	(2,749)		
PT. Tanjung Power Indonesia	700				(98)	15	617	
Incheon New Power Co., Ltd.	465				49		514	
Seokmun Energy Co., Ltd.			(100)			100		
	1,166,894	53,683	(8,951)	(60,329)	82,471	58,293	(4,199)	1,287,862
	₩ 5,508,724	116,114	(8,951)	(114,708)	194,272	94,854	(96,775)	5,693,530

(\*1) Others include ₩15,204 million of assets held-for-sale (note 42).

(\*2) Others include ₩41,170 million of assets held-for-sale (note 42).

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****17. Investments in Associates and Joint Ventures, Continued****(4) Summary of financial information of associates and joint ventures as of and for the year ended December 31, 2016 and 2015 are as follows:***In millions of won*

	2016			Profit (loss) for the period
Investees	Total assets	Total liabilities	Sales	
<b>&lt;Associates&gt;</b>				
Korea Gas Corporation	₩ 39,927,836	30,541,350	21,108,116	(673,558)
Korea Electric Power Industrial Development Co., Ltd.	144,346	73,742	304,067	17,187
YTN Co., Ltd.	304,536	126,324	130,690	2,051
Cheongna Energy Co., Ltd.	469,843	447,216	46,484	(16,127)
Gangwon Wind Power Co., Ltd.	102,550	15,753	22,774	8,133
Hyundai Green Power Co., Ltd.	1,151,975	751,981	469,547	38,743
Korea Power Exchange	255,533	32,295	101,222	15,087
AMEC Partners Korea Ltd.	1,216	32	103	(25)
Hyundai Energy Co., Ltd.	505,979	499,205	61,813	(45,800)
Ecollite Co., Ltd.	2,157	336		(105)
Taebaek Wind Power Co., Ltd.	43,162	24,162	5,741	(2,796)
Taebaek Guinemi Wind Power Co., Ltd. (formerly, Muju Wind Power Co., Ltd.)	12,523	1		(106)
Pyeongchang Wind Power Co., Ltd.	75,440	61,909	3,997	(45)
Daeryun Power Co., Ltd.	793,283	644,930	249,558	(32,291)
Changjuk Wind Power Co., Ltd.	37,878	15,162	5,782	1,739
KNH Solar Co., Ltd.	25,878	18,199	4,006	638
SPC Power Corporation	191,562	42,042	73,674	42,617
Gemeng International Energy Co., Ltd.	5,822,879	3,821,905	1,233,972	66,370
PT. Cirebon Electric Power	988,975	637,491	265,813	114,653
KNOC Nigerian East Oil Co., Ltd.	272,964	358,211		(7,051)
KNOC Nigerian West Oil Co., Ltd.	165,396	243,713		(6,562)
PT Wampu Electric Power	222,004	171,595	19,260	7,550
PT. Bayan Resources TBK	945,436	845,963	593,441	402
S-Power Co., Ltd.	886,841	629,992	453,606	(14,885)
Pioneer Gas Power Limited	345,791	276,978	14,353	396
Eurasia Energy Holdings	618	1,103		

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Xe-Pian Xe-Namnoy Power Co., Ltd.	772,699	543,472		6,458
Hadong Mineral Fiber Co., Ltd.		20		
Green Biomass Co., Ltd.	9,336	9,001	2,892	(972)
PT. Mutiara Jawa	28,104	34,671	7,175	(1,361)
Samcheok Eco Materials Co., Ltd.	24,143	254		(1,945)
Noeul Green Energy Co., Ltd.	115,062	110,866	203	(1,155)
Naepo Green Energy Co., Ltd.	104,029	2,276	4,912	(5,230)
Goseong Green Energy Co., Ltd.	356,546	110,753		(5,489)
Gangneung Eco Power Co., Ltd.	176,805	6,503		(3,494)
Shin Pyeongtaek Power Co., Ltd.	54,174	60,518		(3,291)
Heang Bok Do Si Photovoltaic Power Co., Ltd.	2,937	2,297	427	(47)
DS POWER Co., Ltd.	726,699	618,793	276,324	(10,031)
Dongducheon Dream Power Co., Ltd.	1,670,945	1,427,773	946,379	(27,936)
KS Solar Co., Ltd.	27,213	24,035	4,152	(79)
Jinbhuvish Power Generation Pvt. Ltd.	70,273	14,513		(950)
SE Green Energy Co., Ltd.	7,381			(103)
Daegu Photovoltaic Co., Ltd.	18,909	13,047	3,317	739
Jeongam Wind Power Co., Ltd.	13,199	3,199		(1,496)
Korea Power Engineering Service Co., Ltd.	13,401	3,713	27,394	3,463
Busan Green Energy Co., Ltd.	147,843	100,247		(2,444)
Jungbu Bio Energy Co., Ltd.	11,340	12,037		(5,489)
Korea Electric Vehicle Charging Service	10,545	6,604	5,177	(1,225)
Ulleungdo Natural Energy Co., Ltd.	24,836	1,738		(1,730)
Korea Nuclear Partners Co., Ltd.	1,363	507	372	(140)
Tamra Offshore Wind Power Co., Ltd.	127,880	101,900	983	(6,307)
Korea Electric Power Corporation Fund	51,970	128	3	(647)
Energy Infra Asset Management Co., Ltd.	2,779	160	32	(381)
Daegu clean Energy Co., Ltd.	500			
YaksuESS Co., Ltd	6,474	5,801		(48)
Nepal Water & Energy Development Company Private Limited	43,788	10,477		(703)

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****17. Investments in Associates and Joint Ventures, Continued****(4) Summary of financial information of associates and joint ventures as of and for the years ended December 31, 2016 and 2015 are as follows, continued:***In millions of won*

Investees	2016			Profit (loss) for the period
	Total assets	Total liabilities	Sales	
<b>&lt;Joint ventures&gt;</b>				
KEPCO-Uhde Inc.	₩ 624	33		(16,855)
Eco Biomass Energy Sdn. Bhd.				
Datang Chaoyang Renewable Power Co., Ltd.	142,684	72,086	18,628	3,462
Shuweiha Asia Power Investment B.V.	282	4		12,380
Shuweiha Asia Operation & Maintenance Company	1,016	13	2,388	1,723
Waterbury Lake Uranium L.P.	56,181	47		
ASM-BG Investicii AD	79,898	36,921	12,604	3,105
RES Technology AD	68,553	41,389	7,798	(139)
KV Holdings, Inc.	5,245	1		1,072
KEPCO SPC Power Corporation	448,069	121,783	165,046	63,689
Canada Korea Uranium Limited Partnership	285	144		(59)
Gansu Datang Yumen Wind Power Co., Ltd.	89,517	57,464	4,263	(6,815)
Datang Chifeng Renewable Power Co., Ltd.	813,804	397,344	99,795	19,042
Datang KEPCO Chaoyang Renewable Power Co., Ltd.	62,600	35,493	8,742	2,505
Rabigh Electricity Company	2,691,654	2,258,772	278,431	37,791
Rabigh Operation & Maintenance Company	25,032	13,965	25,607	4,870
Jamaica Public Service Company Limited	1,291,008	659,296	827,298	25,324
KW Nuclear Components Co., Ltd.	26,417	11,990	26,481	9,452

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Busan Shinho Solar Power Co., Ltd.	47,789	32,533	6,770	1,247
GS Donghae Electric Power Co., Ltd.	1,952,297	1,346,568	19,851	16,396
Global Trade Of Power System Co., Ltd.	1,661	18	2,667	205
Expressway Solar-light Power Generation Co., Ltd.	20,790	12,710	3,395	960
KODE NOVUS I LLC	14,286	104,252	2,362	(50,151)
KODE NOVUS II LLC	3,236	50,267	810	(22,582)
Daejung Offshore Wind Power Co., Ltd.	6,076	34		(675)
Amman Asia Electric Power Company	881,164	624,590	13,631	29,684
KAPES, Inc. (formerly, KEPCO-ALSTOM Power Electronics Systems, Inc.)	145,576	136,247	31,852	456
Dangjin Eco Power Co., Ltd.	149,926	1,001		(2,023)
Honam Wind Power Co., Ltd.	41,614	26,375	6,776	2,171
Chun-cheon Energy Co., Ltd.	548,306	379,113		(3,684)
Yeonggwangbaeksu Wind Power Co., Ltd.	99,773	81,881	11,208	(26)
Nghi Son 2 Power Ltd.	757	302		(1,481)
Kelar S.A	617,803	712,124		(4,109)
PT. Tanjung Power Indonesia	203,051	197,491	122,583	3,821
Incheon New Power Co., Ltd.	7,902	5,961	2,985	168
Seokmun Energy Co., Ltd.	235,905	234,556		(543)
Daehan Wind Power PSC	750	714		(523)
Barakah One Company	17,117,338	17,116,680		
Nawah Energy Company	1,645			
MOMENTUM	2,749	2,547	2,886	194
Daegu Green Power Co., Ltd.	636,438	547,017	265,621	(3,981)

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****17. Investments in Associates and Joint Ventures, Continued****(4) Summary of financial information of associates and joint ventures as of and for the years ended December 31, 2016 and 2015 are as follows, continued:***In millions of won*

Investees	2015			Sales	Profit (loss) for the period
	Total assets	Total liabilities			
<b>&lt;Associates&gt;</b>					
Daegu Green Power Co., Ltd.	₩ 639,118	471,497	321,273	18,625	
Korea Gas Corporation	42,385,340	32,328,396	26,052,724	319,190	
Korea Electric Power Industrial Development Co., Ltd.	142,835	77,340	324,162	9,855	
YTN Co., Ltd.	305,799	126,561	117,418	(520)	
Cheongna Energy Co., Ltd.	458,205	419,353	48,519	(21,108)	
Gangwon Wind Power Co., Ltd.	114,600	28,994	21,941	8,529	
Hyundai Green Power Co., Ltd.	1,182,352	790,407	486,435	31,011	
Korea Power Exchange	236,199	27,464	87,400	9,303	
AMEC Partners Korea Ltd.	1,332	123	511	155	
Hyundai Energy Co., Ltd.	526,305	473,736	80,067	(29,749)	
Ecollite Co., Ltd.	2,271	345		(97)	
Taebaek Wind Power Co., Ltd.	48,009	26,212	6,626	(302)	
Taebaek Guinemi Wind Power Co., Ltd. (formerly, Muju Wind Power Co., Ltd.)	10,349			(477)	
Pyeongchang Wind Power Co., Ltd.	62,565	48,959		(1,164)	
Daeryun Power Co., Ltd.	838,199	657,551	279,787	(29,806)	
JinanJangsu Wind Power Co., Ltd.	306			(1)	
Changjuk Wind Power Co., Ltd.	41,444	19,053	6,472	772	
KNH Solar Co., Ltd.	27,254	20,105	4,399	861	
SPC Power Corporation	182,908	30,191	68,149	37,395	
Gemeng International Energy Co., Ltd.	5,956,288	3,940,455	902,008	95,064	
PT. Cirebon Electric Power	1,026,729	806,458	295,788	43,968	
KNOC Nigerian East Oil Co., Ltd.	264,434	337,762		(6,069)	
KNOC Nigerian West Oil Co., Ltd.	160,765	230,001		(7,386)	
Dolphin Property Limited	300	1		8	
PT Wampu Electric Power	201,383	160,159	17,476	(2,696)	

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PT. Bayan Resources TBK	1,043,143	901,952	461,349	(30,014)
S-Power Co., Ltd.	935,870	664,523	632,073	5,336
Pioneer Gas Power Limited	310,761	240,833		148
Eurasia Energy Holdings	599	1,069		
Xe-Pian Xe-Namnoy Power Co., Ltd.	506,970	341,261		2,760
Busan Solar Co., Ltd.	26,059	21,367	4,267	383
Hadong Mineral Fiber Co., Ltd.	2	21		(30)
Green Biomass Co., Ltd.	10,664	9,343	4,136	(1,323)
PT. Mutiara Jawa	25,013	29,913	1,943	(7,247)
Samcheok Eco Materials Co., Ltd.	23,119	735		(2,171)
Noeul Green Energy Co., Ltd.	1,517	44		(446)
Naepo Green Energy Co., Ltd.	108,167	1,184	3,126	(5,274)
Goseong Green Energy Co., Ltd.	95,323	3,248		(4,312)
Gangneung Eco Power Co., Ltd.	81,459	9,163		(3,610)
Shin Pyeongtaek Power Co., Ltd.	25,875	29,190		(2,595)
Heang Bok Do Si Photovoltaic Power Co., Ltd.	3,128	2,452	490	81
DS POWER Co., Ltd.	641,257	525,524	33,542	(5,759)
Dongducheon Dream Power Co., Ltd.	1,668,235	1,397,026	1,003,346	(10,307)
KS Solar Co., Ltd.	29,745	26,469	4,667	278
Yeongwol Energy Station Co., Ltd.	179,852	166,953	12,068	1,831
Jinbhuvish Power Generation Pvt. Ltd.	75,429	19,199		(805)
SE Green Energy Co., Ltd.	7,484			(103)
Daegu Photovoltaic Co., Ltd.	21,039	14,535	3,977	1,051
Jeongam Wind Power Co., Ltd.	2,053	299		(621)
Korea Power Engineering Service Co., Ltd.	9,194	2,968	25,925	2,296
Busan Green Energy Co., Ltd.	50,093	53		(180)
Jungbu Bio Energy Co., Ltd.	5,192	400		(508)
Korea Electric Vehicle Charging Service	9,577	4,412		(482)
Ulleungdo Natural Energy Co., Ltd.	27,113	2,262		(1,948)
Korea Nuclear Partners Co., Ltd.	1,002	6		(4)

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****17. Investments in Associates and Joint Ventures, Continued****(4) Summary of financial information of associates and joint ventures as of and for the years ended December 31, 2016 and 2015 are as follows, continued:***In millions of won*

Investees	2015			Profit (loss) for the period
	Total assets	Total liabilities	Sales	
<b>&lt;Joint ventures&gt;</b>				
KEPCO-Uhde Inc.	₩ 17,535	111		(765)
Eco Biomass Energy Sdn. Bhd.				
Datang Chaoyang Renewable Power Co., Ltd.	150,157	81,056	16,335	(373)
Shuweiha Asia Power Investment B.V.	41,969	17		8,232
Shuweiha Asia Operation & Maintenance Company	885		2,318	1,666
Waterbury Lake Uranium L.P.	51,302	4		
ASM-BG Investicii AD	83,766	43,359	12,328	2,833
RES Technology AD	73,261	45,684	7,539	(566)
KV Holdings, Inc.	5,025			186
KEPCO SPC Power Corporation	449,553	172,261	175,008	59,610
Canada Korea Uranium Limited Partnership	305	124		(19)
KEPCO Energy Resource Nigeria Limited	380,282	416,959		(16,309)
Gansu Datang Yumen Wind Power Co., Ltd.	98,298	58,030	7,280	(4,507)
Datang Chifeng Renewable Power Co., Ltd.	882,914	454,731	103,860	21,900
Datang KEPCO Chaoyang Renewable Power Co., Ltd.	65,110	38,661	7,880	1,216
Rabigh Electricity Company	2,644,825	2,297,194	293,184	53,384
Rabigh Operation & Maintenance Company	18,186	9,222	22,203	2,144
Jamaica Public Service Company Limited	1,086,244	657,962	859,728	3,305
KW Nuclear Components Co., Ltd.	36,065	24,777	16,217	7,687
Busan Shinho Solar Power Co., Ltd.	51,617	36,903	7,565	1,471
GS Donghae Electric Power Co., Ltd.	1,675,986	1,086,534		(2,823)
Global Trade Of Power System Co., Ltd.	1,547	78	4,849	287
Expressway Solar-light Power Generation Co., Ltd.	21,154	13,913	2,981	443
KODE NOVUS I LLC	64,453	110,030	3,421	(59,389)



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KODE NOVUS II LLC	22,500	45,306	1,868	(39,345)
Daejung Offshore Wind Power Co., Ltd.	6,795	78		(606)
Amman Asia Electric Power Company	875,590	645,998	46,940	41,880
KAPES, Inc. (formerly, KEPCO-ALSTOM Power Electronics Systems, Inc.)	50,152	41,326	18,849	(611)
Dangjin Eco Power Co., Ltd.	136,982	945		(1,035)
Honam Wind Power Co., Ltd.	41,527	28,100	5,944	1,266
Nepal Water & Energy Development Company Private Limited	42,644	11,136		(647)
Chun-cheon Energy Co., Ltd.	149,025	42,094		(2,389)
Yeonggwangbaeksu Wind Power Co., Ltd.	104,045	86,257	4,974	(1,956)
Nghi Son 2 Power Ltd.	771	234		(1,111)
Kelar S.A	375,136	405,618		(3,140)
PT. Tanjung Power Indonesia	37,948	36,185	16,476	(276)
Incheon New Power Co., Ltd.	10,078	8,306	3,318	301
Seokmun Energy Co., Ltd.	184,051	184,759		(552)

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****17. Investments in Associates and Joint Ventures, Continued**

(5) Financial information of associates and joint ventures reconciled to the Company's investments in consolidated financial statements as of December 31, 2016 and 2015 are as follows:

*In millions of won*

Investees	2016					
	Net assets	Percentage of ownership (*)	Share in net assets	Investment differential	Intercompany transaction Others	Book value
<b>&lt;Associates&gt;</b>						
Korea Gas Corporation	₩ 9,386,486	21.57%	2,024,665		(90,788)	1,933,877
Korea Electric Power Industrial Development Co., Ltd.	70,604	29.00%	20,475			20,475
YTN Co., Ltd.	178,212	21.43%	38,191		(30) (5)	38,156
Cheongna Energy Co., Ltd.	22,627	43.90%	9,933	2,584	(144)	12,373
Gangwon Wind Power Co., Ltd.	86,797	15.00%	13,020		49	13,069
Hyundai Green Power Co., Ltd.	399,994	29.00%	115,998			115,998
Korea Power Exchange	223,238	100.00%	223,238			223,238
AMEC Partners Korea Ltd.	1,184	19.00%	225			225
Hyundai Energy Co., Ltd.	6,774	46.30%	3,136		(1,079) (1,026)	1,031
Ecollite Co., Ltd.	1,821	36.10%	657		(657)	
Taebaek Wind Power Co., Ltd.	19,000	25.00%	4,750			4,750
Taebaek Guinemi Wind Power Co., Ltd. (formerly, Muju Wind Power Co., Ltd.)	12,522	25.00%	3,131			3,131
Pyeongchang Wind Power Co., Ltd.	13,531	25.00%	3,383			3,383
Daeryun Power Co., Ltd.	148,353	19.45%	28,855	1,014	4	29,873
Changjuk Wind Power Co., Ltd.	22,716	30.00%	6,815		115	6,930

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KNH Solar Co., Ltd.	7,679	27.00%	2,073			2,073
SPC Power Corporation	149,520	38.00%	56,818			56,818
Gemeng International Energy Co., Ltd.	2,000,974	34.00%	680,331		(266)	680,065
PT. Cirebon Electric Power	351,484	27.50%	96,658			96,658
KNOC Nigerian East Oil Co., Ltd.	(85,247)	14.63%	(12,472)		12,472	
KNOC Nigerian West Oil Co., Ltd.	(78,317)	14.63%	(11,458)		11,458	
PT Wampu Electric Power	50,409	46.00%	23,188			23,188
PT. Bayan Resources TBK	99,473	20.00%	19,895	482,109	(99,337)	402,667
S-Power Co., Ltd.	256,849	49.00%	125,856		(1,944)	123,912
Pioneer Gas Power Limited	68,813	40.00%	27,525	23,147	68	50,740
Eurasia Energy Holdings	(485)	40.00%	(194)		194	
Xe-Pian Xe-Namnoy Power Co., Ltd.	229,227	25.00%	57,307	(4,802)	(672)	(289)
Hadong Mineral Fiber Co., Ltd.	(20)	25.00%	(5)		5	
Green Biomass Co., Ltd.	335	14.00%	47			47
PT. Mutiara Jawa	(6,567)	29.00%	(1,904)	70	1,834	
Samcheok Eco Materials Co., Ltd.	23,889	2.35%	561		(561)	
Noeul Green Energy Co., Ltd.	4,196	29.00%	1,217			1,217
Naepo Green Energy Co., Ltd.	101,753	25.00%	25,438			25,438
Goseong Green Energy Co., Ltd.	245,793	1.12%	2,742		(79)	2,663
Gangneung Eco Power Co., Ltd.	170,302	1.61%	2,744		(98)	2,646
Shin Pyeongtaek Power Co., Ltd.	(6,344)	40.00%	(2,538)		(3,380)	5,918
Heang Bok Do Si Photovoltaic Power Co., Ltd.	640	28.00%	179		2	181
DS POWER Co., Ltd.	107,906	14.44%	15,582		(7,302)	(1,090)
Dongducheon Dream Power Co., Ltd.	243,172	33.61%	81,730		(4,768)	(30,086)
KS Solar Co., Ltd.	3,178	19.00%	604			604
Jimbhuvish Power Generation Pvt. Ltd.	55,760	5.16%	2,877		(2,877)	
SE Green Energy Co., Ltd.	7,381	47.76%	3,525			3,525

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

December 31, 2016

**17. Investments in Associates and Joint Ventures, Continued**

(5) Financial information of associates and joint ventures reconciled to the Company's investments in consolidated financial statements as of December 31, 2016 and 2015 are as follows, continued:

*In millions of won*

Investees	2016		Share in net assets	Investment differential	Intercompany transaction	Others	Book value
	Net assets	Percentage of ownership (*)					
Daegu Photovoltaic Co., Ltd.	5,862	29.00%	1,700				1,700
Jeongam Wind Power Co., Ltd.	10,000	40.00%	4,000				4,000
Korea Power Engineering Service Co., Ltd.	9,688	29.00%	2,810				2,810
Busan Green Energy Co., Ltd.	47,596	29.00%	13,803				13,803
Jungbu Bio Energy Co., Ltd.	(697)	18.87%	(132)			132	
Korea Electric Vehicle Charging Service	3,941	28.00%	1,103				1,103
Ulleungdo Natural Energy Co., Ltd.	23,098	29.85%	6,895			(1)	6,894
Korea Nuclear Partners Co., Ltd.	856	29.00%	248				248
Tamra Offshore Wind Power Co., Ltd.	25,980	27.00%	7,015				7,015
Korea Electric Power Corporation Fund	51,842	98.09%	50,852			4	50,856
Energy Infra Asset Management Co., Ltd.	2,619	9.90%	259				259
Daegu clean Energy Co., Ltd.	500	28.00%	140				140
YaksuESS Co., Ltd	673	29.00%	195			1	196
Nepal Water & Energy Development Company Private Limited	33,311	52.77%	17,578	972		117	18,667
<b>&lt;Joint ventures&gt;</b>							
KEPCO-Uhde Inc.	591	50.85%	301				301
Eco Biomass Energy Sdn. Bhd.		61.53%					
Datang Chaoyang Renewable Power Co., Ltd.	70,598	40.00%	28,239				28,239

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Shuweihaat Asia Power Investment B.V.	278	49.00%	136		(136)	
Shuweihaat Asia Operation & Maintenance Company	1,003	55.00%	552		(102)	450
Waterbury Lake Uranium L.P.	56,134	36.97%	20,753		561	21,314
ASM-BG Investicii AD	42,977	50.00%	21,489		(1)	21,488
RES Technology AD	27,164	50.00%	13,582			13,582
KV Holdings, Inc.	5,244	40.00%	2,098			2,098
KEPCO SPC Power Corporation	326,286	75.20%	245,367			245,367
Canada Korea Uranium Limited Partnership	141	12.50%	18		(18)	
Gansu Datang Yumen Wind Power Co., Ltd.	32,053	40.00%	12,821			12,821
Datang Chifeng Renewable Power Co., Ltd.	416,460	40.00%	166,584		(49)	166,535
Datang KEPCO Chaoyang Renewable Power Co., Ltd.	27,107	40.00%	10,843			10,843
Rabigh Electricity Company	432,882	40.00%	173,153	(75,311)	(40)	97,802
Rabigh Operation & Maintenance Company	11,067	40.00%	4,427			4,427
Jamaica Public Service Company Limited	631,712	40.00%	252,685	(80,161)	76,929	249,453
KW Nuclear Components Co., Ltd.	14,427	45.00%	6,492	90	551	7,133
Busan Shinho Solar Power Co., Ltd.	15,256	25.00%	3,814			3,814
GS Donghae Electric Power Co., Ltd.	605,729	34.00%	205,948			205,948
Global Trade Of Power System Co., Ltd.	1,643	29.00%	476		1	477
Expressway Solar-light Power Generation Co., Ltd.	8,080	29.00%	2,343			2,343
KODE NOVUS I LLC	(89,966)	50.00%	(44,983)	4,732		40,251
KODE NOVUS II LLC	(47,031)	50.00%	(23,516)			23,516
Daejung Offshore Wind Power Co., Ltd.	6,042	49.90%	3,015			3,015
Amman Asia Electric Power Company	256,574	60.00%	153,944		(87)	153,857
KAPES, Inc. (formerly, KEPCO-ALSTOM Power Electronics Systems, Inc.)	9,329	51.00%	4,758			4,758

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****17. Investments in Associates and Joint Ventures, Continued****(5) Financial information of associates and joint ventures reconciled to the Company's investments in consolidated financial statements as of December 31, 2016 and 2015 are as follows, continued:***In millions of won*

Investees	2016					Book value
	Net assets	Percentage of ownership (*)	net assets	Intercompany differential	transaction Others	
Dangjin Eco Power Co., Ltd.	148,925	34.00%	50,635	2,618		53,253
Honam Wind Power Co., Ltd.	15,239	29.00%	4,419	32		4,451
Chun-cheon Energy Co., Ltd.	169,193	29.90%	50,589	3		50,592
Yeonggwangbaeksu Wind Power Co., Ltd.	17,892	15.00%	2,684	5		2,689
Nghi Son 2 Power Ltd.	455	50.00%	228		1	229
Kelar S.A	(94,321)	65.00%	(61,309)	2,424	58,885	
PT. Tanjung Power Indonesia	5,560	35.00%	1,946			1,946
Incheon New Power Co., Ltd.	1,941	29.00%	563			563
Seokmun Energy Co., Ltd.	1,349	29.00%	391			391
Daehan Wind Power PSC	36	50.00%	18		(2)	16
Barakah One Company	658	18.00%	118		(2)	116
Nawah Energy Company	1,645	18.00%	296		(6)	290
MOMENTUM	202	33.33%	67			67
Daegu Green Power Co., Ltd.	89,421	29.00%	25,932	84	21,512	47,528

(\*) The percentage of ownership shown above is after considering the treasury stocks and others.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****17. Investments in Associates and Joint Ventures, Continued**

(5) Financial information of associates and joint ventures reconciled to the Company's investments in consolidated financial statements as of December 31, 2016 and 2015 are as follows, continued:

*In millions of won*

Investees	Net assets	2015		Investment differential	Intercompany transaction	Others	Book value
		Percentage of ownership (*)	Share in net assets				
<b>&lt;Associates&gt;</b>							
Daegu Green Power Co., Ltd.	₩ 167,621	47.80%	80,123	144			80,267
Korea Gas Corporation	10,056,944	21.57%	2,169,283			(66,470)	2,102,813
Korea Electric Power Industrial Development Co., Ltd.	65,495	29.00%	18,994				18,994
YTN Co., Ltd.	179,238	21.43%	38,411		(43)	(3)	38,365
Cheongna Energy Co., Ltd.	38,852	43.90%	17,056	2,584	(150)		19,490
Gangwon Wind Power Co., Ltd.	85,606	15.00%	12,841			49	12,890
Hyundai Green Power Co., Ltd.	391,945	29.00%	113,664				113,664
Korea Power Exchange	208,735	100.00%	208,735				208,735
AMEC Partners Korea Ltd.	1,209	19.00%	230				230
Hyundai Energy Co., Ltd.	52,569	46.30%	24,340		(1,120)	(16,230)	6,990
Ecollite Co., Ltd.	1,926	36.10%	695			(695)	
Taebaek Wind Power Co., Ltd.	21,797	25.00%	5,449		(493)		4,956
Taebaek Guinemi Wind Power Co., Ltd. (formerly, Muju Wind Power Co., Ltd.)	10,349	25.00%	2,587				2,587
Pyeongchang Wind Power Co., Ltd.	13,606	25.00%	3,402				3,402
Daeryun Power Co., Ltd.	180,648	19.45%	35,136	1,014		6	36,156

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JinanJangsu Wind Power Co., Ltd.	306	25.00%	77				77
Changjuk Wind Power Co., Ltd.	22,391	30.00%	6,717	(574)			6,143
KNH Solar Co., Ltd.	7,149	27.00%	1,930	(6)			1,924
SPC Power Corporation	152,717	38.00%	58,033				58,033
Gemeng International Energy Co., Ltd.	2,015,833	34.00%	685,383			43,013	728,396
PT. Cirebon Electric Power	220,271	27.50%	60,574				60,574
KNOC Nigerian East Oil Co., Ltd.	(73,328)	14.63%	(10,728)			10,728	
KNOC Nigerian West Oil Co., Ltd.	(69,236)	14.63%	(10,129)			10,129	
Dolphin Property Limited	299	15.00%	45			16	61
PT Wampu Electric Power	41,224	46.00%	18,963				18,963
PT. Bayan Resources TBK	141,191	20.00%	28,238	498,089		(1,261)	525,066
S-Power Co., Ltd.	271,347	49.00%	132,960		(2,052)		130,908
Pioneer Gas Power Limited	69,928	40.00%	27,971	23,147		69	51,187
Eurasia Energy Holdings	(470)	40.00%	(188)			188	
Xe-Pian Xe-Namnoy Power Co., Ltd.	165,709	25.00%	41,427	(8,796)	(479)	(289)	31,863
Busan Solar Co., Ltd.	4,692	19.80%	929		(4)		925
Hadong Mineral Fiber Co., Ltd.	(19)	25.00%	(5)			5	
Green Biomass Co., Ltd.	1,321	14.00%	185			(185)	
PT. Mutiara Jawa	(4,900)	29.00%	(1,421)	70		1,351	
Samcheok Eco Materials Co., Ltd.	22,384	2.67%	598			(598)	
Noeul Green Energy Co., Ltd.	1,473	20.00%	295				295
Naepo Green Energy Co., Ltd.	106,983	25.00%	26,746				26,746
Goseong Green Energy Co., Ltd.	92,075	2.90%	2,670				2,670
Gangneung Eco Power Co., Ltd.	72,296	3.72%	2,689			(1)	2,688
Shin Pyeongtaek Power Co., Ltd.	(3,315)	40.00%	(1,326)		(1,995)	3,321	
Heang Bok Do Si Photovoltaic Power Co., Ltd.	676	28.00%	189				189
DS POWER Co., Ltd.	115,733	14.44%	16,712	(5,940)		188	10,960
Dongducheon Dream Power Co., Ltd.	271,209	33.61%	91,153		5,398	(40,884)	55,667
KS Solar Co., Ltd.	3,276	19.00%	622		(4)		618
Yeongwol Energy Station Co., Ltd.	12,899	10.00%	1,290				1,290



Jinhuvish Power Generation Pvt. Ltd.	56,230	5.16%	2,901	5,450	(1)	8,350
SE Green Energy Co., Ltd.	7,484	47.76%	3,575			3,575
Daegu Photovoltaic Co., Ltd.	6,504	29.00%	1,886			1,886

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

December 31, 2016

**17. Investments in Associates and Joint Ventures, Continued**

(5) Financial information of associates and joint ventures reconciled to the Company's investments in consolidated financial statements as of December 31, 2016 and 2015 are as follows, continued:

*In millions of won*

Investees	2015				Book value
	Net assets	Percentage of Share ownership (*)	Investment net assets	Intercompany differential transaction Others	
Jeongam Wind Power Co., Ltd.	₩ 1,754	40.00%	702		702
Korea Power Engineering Service Co., Ltd.	6,226	29.00%	1,805		1,805
Busan Green Energy Co., Ltd.	50,040	29.00%	14,512		14,512
Jungbu Bio Energy Co., Ltd.	4,792	18.87%	904		904
Korea Electric Vehicle Charging Service	5,165	28.00%	1,446		1,446
Ulleungdo Natural Energy Co., Ltd.	24,851	29.85%	7,418	(1)	7,417
Korea Nuclear Partners Co., Ltd.	996	29.00%	289		289
<b>&lt;Joint ventures&gt;</b>					
KEPCO-Uhde Inc.	17,424	50.85%	8,860	(311)	8,549
Eco Biomass Energy Sdn. Bhd.		61.53%			
Datang Chaoyang Renewable Power Co., Ltd.	69,101	40.00%	27,640		27,640
Shuweihaat Asia Power Investment B.V.	41,952	49.00%	20,556	(82)	20,474
Shuweihaat Asia Operation & Maintenance Company	885	55.00%	487	(1)	486
Waterbury Lake Uranium L.P.	51,298	40.00%	20,519	(220)	20,299
ASM-BG Investicii AD	40,407	50.00%	20,203		20,203
RES Technology AD	27,577	50.00%	13,789		13,789
KV Holdings, Inc.	5,025	40.00%	2,010		2,010
KEPCO SPC Power Corporation	277,292	75.20%	208,524		208,524
Canada Korea Uranium Limited Partnership	181	12.50%	23	(23)	

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KEPCO Energy Resource Nigeria Limited	(36,677)	30.00%	(11,003)		11,003	
Gansu Datang Yumen Wind Power Co., Ltd.	40,268	40.00%	16,107			16,107
Datang Chifeng Renewable Power Co., Ltd.	428,183	40.00%	171,273		(49)	171,224
Datang KEPCO Chaoyang Renewable Power Co., Ltd.	26,449	40.00%	10,580			10,580
Rabigh Electricity Company	347,631	40.00%	139,052	(79,646)	(38)	59,368
Rabigh Operation & Maintenance Company	8,964	40.00%	3,586			3,586
Jamaica Public Service Company Limited	428,282	40.00%	171,313	(72,370)	142,975	241,918
KW Nuclear Components Co., Ltd.	11,288	45.00%	5,080	90	(185)	4,985
Busan Shinho Solar Power Co., Ltd.	14,714	25.00%	3,678			3,678
GS Donghae Electric Power Co., Ltd.	589,452	34.00%	200,414		(35)	200,379
Global Trade Of Power System Co., Ltd.	1,469	29.00%	426			426
Expressway Solar-light Power Generation Co., Ltd.	7,241	29.00%	2,100			2,100
KODE NOVUS I LLC	(45,577)	50.00%	(22,789)	4,732	18,057	
KODE NOVUS II LLC	(22,806)	49.00%	(11,175)		11,175	
Daejung Offshore Wind Power Co., Ltd.	6,717	49.90%	3,352			3,352
Amman Asia Electric Power Company	229,592	60.00%	137,755		(87)	137,668
KAPES, Inc. (formerly, KEPCO-ALSTOM Power Electronics Systems, Inc.)	8,826	51.00%	4,501			4,501
Dangjin Eco Power Co., Ltd.	136,037	34.00%	46,253	2,696	(668)	48,281
Honam Wind Power Co., Ltd.	13,427	29.00%	3,894	32		3,926
Nepal Water & Energy Development Company Private Limited	31,508	52.77%	16,627	972	166	17,765
Chun-cheon Energy Co., Ltd.	106,931	29.90%	31,972	3	1	31,976
Yeonggwangbaeksu Wind Power Co., Ltd.	17,788	15.00%	2,668			2,668
Nghi Son 2 Power Ltd.	537	50.00%	268		1	269
Kelar S.A	(30,482)	65.00%	(19,814)	2,424	17,390	
PT. Tanjung Power Indonesia	1,763	35.00%	617			617
Incheon New Power Co., Ltd.	1,772	29.00%	514			514
Seokmun Energy Co., Ltd.	(708)	29.00%	(205)		205	

(\* ) The percentage of ownership shown above is after considering the treasury stocks and others.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****17. Investments in Associates and Joint Ventures, Continued****(6) As of December 31, 2016 and 2015, unrecognized equity interest in investments in associates and joint ventures whose book value has been reduced to zero due to accumulated losses are as follows:**

*In millions of won*

	2016		2015	
	Unrecognized equity interest	Accumulated unrecognized equity interest	Unrecognized equity interest	Accumulated unrecognized equity interest
Green Biomass Co., Ltd.	₩		(125)	
Shin Pyeongtaek Power Co., Ltd.	1,211	2,537	1,038	1,326
Chun-cheon Energy Co., Ltd.			(8)	
Seokmun Energy Co., Ltd.	(205)		152	205
Kelar S.A	43,920	61,309	17,389	17,389
Hadong Mineral Fiber Co., Ltd.		5	5	5
PT. Mutiara Jawa	554	1,905	1,351	1,351
Eurasia Energy Holdings	6	194	188	188
KODE NOVUS I LLC	22,194	44,983	22,789	22,789
KODE NOVUS II LLC	12,340	23,515	11,175	11,175
Jungbu Bio Energy Co., Ltd.	132	132		

**(7) As of December 31, 2016, shareholders agreements on investments in associates and joint ventures that may cause future economic resource or cash outflows are as follows:****(i) Gemeng International Energy Co., Ltd.**

Gemeng International Energy Co., Ltd., issued put options on 8% of its shares to its financial investors, KEPCO Woori Sprot PEF (NPS Co-Pa PEF). If the investment fund is not collected until the maturity date (December 25, 2023, two years extension is possible), PEF can exercise the option at strike price which is the same as a principal investment price (including operating fees ratio of below 1% per annum), and also, the Company provided a performance guarantee on this agreement.

**(ii) Hyundai Energy Co., Ltd.**

The Company had placed guarantees for a fixed return on the investment to NH Power II Co., Ltd. and National Agricultural Cooperative Federation ( NACF ) and had obtained the rights to acquire the investment securities in return preferentially. In addition, NH Power II Co., Ltd. and NACF have a right, which can be exercised for 30 days starting from 2 months to 1 month prior to 17 years after the termination date of the contract to sell their shares to the Company.

(iii) Taebaek Wind Power Co., Ltd.

In case non-controlling shareholders decide to dispose of their shares in Taebaek Wind Power Co., Ltd. after the warrant period of defect repair for wind power generator has expired, the Company acquires those shares at fair value. The acquisition is to be made after the conditions of the acquisition are discussed among the parties involved, with consideration of various factors such as financial status and business situation.

(iv) Pyeongchang Wind Power Co., Ltd.

In case non-controlling shareholders decide to dispose of their shares in Pyeongchang Wind Power Co., Ltd. after commercial operation of the power plant has started, the Company acquires those shares at fair value. The acquisition is to be made after the conditions of the acquisition are discussed among the parties involved, with the careful consideration of various factors such as financial status and business situation.

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KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**17. Investments in Associates and Joint Ventures, Continued**

**(7) As of December 31, 2016, shareholders' agreements on investments in associates and joint ventures that may cause future economic costs or cash outflows are as follows, continued:**

(v) Jeongam Wind Power Co., Ltd.

In case non-controlling shareholders decide to dispose of their shares in Jeongam Wind Power Co., Ltd. after the construction of the power plant has been completed, the Company is obligated to acquire those shares at fair value.

(vi) Daejung Offshore Wind Power Co., Ltd.

In case Samsung Heavy Industries Co., Ltd., a co-participant of the joint venture agreement, decides to dispose of its shares in Daejung Offshore Wind Power Co., Ltd., the Company is obligated to acquire those shares after evaluating the economic feasibility of the facilities installed by Samsung Heavy Industries Co., Ltd.

(vii) DS Power Co., Ltd.

The Company has a right to sell all shares and bonds of DS POWER Co., Ltd. to Daesung Industrial Co., Ltd. and Daesung Industrial Co., Ltd. or an authoritative person appointed by Daesung Industrial Co., Ltd.

(viii) Samcheok Eco Materials Co., Ltd.

The Company has the rights to purchase the stocks should preferred stockholders elect to sell their stocks on the expected sell date (3 years from preferred stock payment date) and is required to guarantee the promised yield when preferred stockholders sell their stocks.

(ix) Hyundai Green Power Co., Ltd.

As of December 31, 2016, Hyundai Green Power Co., Ltd., an associate of the Company, which engages in the byproduct gas power generating business, entered into a project financing agreement with a limit of ₩919.2 billion with Korea Development Bank and others. At a certain period in the future, the Company has an appraisal right against the financial investors (Korea Development Bank and others) and also has an obligation to sell its shares when claimed by the financial investors. At a certain period in the future, the Company has an appraisal right against Hyundai Steel Company and a third party designated by Hyundai Steel Company (collectively, Hyundai Steel

Company ), the operating investor of Hyundai Green Power Co., Ltd., according to the conditions of the agreement and also has an obligation to sell its shares when claimed by Hyundai Steel Company.

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KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**17. Investments in Associates and Joint Ventures, Continued**

**(8) Significant restrictions on its abilities to associates or joint ventures are as follows:**

<b>Company</b>	<b>Nature and extent of any significant restrictions</b>
KNOC Nigerian East Oil Co., Ltd.,	The Company has stopped its operation in Nigeria due to an ongoing litigation and payment or retrieval of investments, loans and advances are restricted until the legal dispute is resolved.
KNOC Nigerian West Oil Co., Ltd.	
Daeryun Power Co., Ltd.	Principals on subordinated loans or dividends can only be paid when all conditions of the loan agreement are satisfied or prior written consent of financial institutions is obtained.
Changjuk Wind Power Co., Ltd.	Principals on subordinated loans or dividends can only be paid when all conditions of the loan agreement are satisfied or prior written consent of financial institutions is obtained.
Taebaek Wind Power Co., Ltd.	Financial institutions can reject or defer an approval with regard to the request for fund executions on subordinated loans of shareholders in order to pay senior loans based on the loan agreement.
Pyeongchang Wind Power Co., Ltd.	Principals on subordinated loans or dividends can only be paid when all conditions of the loan agreement are satisfied or prior written consent of financial institutions is obtained.
Daegu Green Power Co., Ltd.	Principals on subordinated loans or dividends can only be paid when all conditions of the loan agreement are satisfied or prior written consent of financial institutions is obtained. Shares cannot be wholly or partially transferred without prior written consent of financial institutions is obtained.
KS Solar Co., Ltd.	Dividends can only be paid when all conditions of a loan agreement are satisfied.
KNH Solar Co., Ltd.	Principal and interest, dividends to shareholders cannot be paid without written consent of financial institutions.
DS Power Co., Ltd.	Shares cannot be wholly or partially transferred, except as permitted by the agreement.



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****18. Property, Plant and Equipment****(1) Property, plant and equipment as of December 31, 2016 and 2015 are as follows:***In millions of won*

			2016		
	Acquisition cost	Government grants	Accumulated depreciation	Accumulated impairment losses (*)	Book value
Land	₩ 12,969,741	(3,204)			12,966,537
Buildings	17,722,326	(61,188)	(5,936,849)	(853)	11,723,436
Structures	63,291,437	(197,641)	(19,959,839)	(1,183)	43,132,774
Machinery	67,769,168	(111,064)	(24,344,832)	(2,391)	43,310,881
Ships	4,175		(3,625)		550
Vehicles	247,751	(107)	(176,781)		70,863
Equipment	1,270,660	(732)	(894,265)		375,663
Tools	921,115	(430)	(742,083)		178,602
Construction-in-progress	27,334,368	(135,807)		(38,108)	27,160,453
Finance lease assets	2,390,779		(1,984,426)		406,353
Asset retirement costs	7,129,771		(3,064,359)		4,065,412
Others	10,361,294		(8,009,762)		2,351,532
	₩ 211,412,585	(510,173)	(65,116,821)	(42,535)	145,743,056

(\*) The Company separately recognizes impairment loss on each asset, reflecting various factors such as physical impairment and others during the replacement.

*In millions of won*

			2015		
	Acquisition cost	Government grants	Accumulated depreciation	Accumulated impairment losses (*)	Book value
Land	₩ 12,396,460	(3,147)			12,393,313
Buildings	14,936,722	(63,932)	(5,259,436)	(854)	9,612,500
Structures	58,251,296	(193,119)	(17,991,950)	(1,184)	40,065,043

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Machinery	57,143,211	(108,935)	(20,242,232)	(36,230)	36,755,814
Ships	4,930		(4,144)		786
Vehicles	227,733	(29)	(167,261)		60,443
Equipment	1,134,376	(1,026)	(823,805)		309,545
Tools	836,131	(691)	(675,501)		159,939
Construction-in-progress	35,305,133	(139,898)		(38,107)	35,127,128
Finance lease assets	2,389,985		(1,878,476)		511,509
Asset retirement costs	6,888,547		(2,782,460)		4,106,087
Others	9,438,381		(7,179,137)		2,259,244
	<b>₩ 198,952,905</b>	<b>(510,777)</b>	<b>(57,004,402)</b>	<b>(76,375)</b>	<b>141,361,351</b>

(\*) The Company separately recognizes impairment loss on each asset, reflecting various factors such as physical impairment and others during the replacement.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****18. Property, Plant and Equipment, Continued****(2) Changes in property, plant and equipment for the years ended December 31, 2016 and 2015 are as follows:***In millions of won*

	<b>2016</b>						
	<b>Beginning balance</b>	<b>Acquisition</b>	<b>Disposal</b>	<b>Depreciation</b>	<b>Impairment</b>	<b>Others</b>	<b>Ending balance</b>
Land	₩ 12,396,460	13,973	(52,569)			611,877	12,969,741
(Government grants)	(3,147)		14			(71)	(3,204)
Buildings	9,676,432		(9,020)	(676,866)		2,794,078	11,784,624
(Government grants)	(63,932)		731	5,299		(3,286)	(61,188)
Structures	40,258,162	455	(524,310)	(2,233,333)		5,829,441	43,330,415
(Government grants)	(193,119)		2,597	9,491		(16,610)	(197,641)
Machinery	36,864,749	193,017	(243,757)	(4,353,596)		10,961,532	43,421,945
(Government grants)	(108,935)	(33)	1,210	12,272		(15,578)	(111,064)
Ships	786			(281)		45	550
Vehicles	60,472	2,493	(34)	(27,615)		35,654	70,970
(Government grants)	(29)	(58)		25		(45)	(107)
Equipment	310,571	67,134	(323)	(128,084)		127,097	376,395
(Government grants)	(1,026)			452		(158)	(732)
Tools	160,630	27,856	(327)	(69,842)		60,715	179,032
(Government grants)	(691)			295		(34)	(430)
Construction-in-progress	35,267,026	11,752,352	(94,443)			(19,628,675)	27,296,260
(Government grants)	(139,898)	(28,434)				32,525	(135,807)
Finance lease assets	511,509	34	(31)	(96,254)		(8,905)	406,353
Asset retirement costs	4,106,087			(509,310)		468,635	4,065,412
Others	2,259,244		(9)	(813,248)		905,545	2,351,532
	₩ 141,361,351	12,028,789	(920,271)	(8,880,595)		2,153,782	145,743,056

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****18. Property, Plant and Equipment, Continued****(2) Changes in property, plant and equipment for the years ended December 31, 2016 and 2015 are as follows, continued:***In millions of won*

		2015						
	Beginning balance	Acquisition	Disposal	Depreciation	Impairment (*1)	Others (*2)	Ending balance	
Land	₩ 12,238,488	9,370	(192,496)			341,098	12,396,460	
(Government grants)	(3,103)					(44)	(3,147)	
Buildings	8,979,023	12,466	(42,889)	(633,770)		1,361,602	9,676,432	
(Government grants)	(67,700)			5,064		(1,296)	(63,932)	
Structures	38,654,777	1,787	(181,914)	(2,120,749)		3,904,261	40,258,162	
(Government grants)	(196,871)		1,816	9,178		(7,242)	(193,119)	
Machinery	35,460,708	430,524	(250,915)	(3,880,076)	(1,205)	5,105,713	36,864,749	
(Government grants)	(108,750)		1,101	11,133		(12,419)	(108,935)	
Ships	1,085			(299)			786	
Vehicles	50,576	5,449	(27)	(22,175)		26,649	60,472	
(Government grants)	(76)		1	47		(1)	(29)	
Equipment	211,647	56,004	(230)	(103,889)		147,039	310,571	
(Government grants)	(1,002)			469		(493)	(1,026)	
Tools	152,777	25,940	(90)	(67,482)		49,485	160,630	
(Government grants)	(862)			268		(97)	(691)	
Construction-in-progress	32,379,512	13,508,590	(13,658)		(29,139)	(10,578,279)	35,267,026	
(Government grants)	(123,938)	(27,239)				11,279	(139,898)	
Finance lease assets	612,395	1,560	(3,959)	(110,162)		11,675	511,509	
Asset retirement costs	5,354,427			(551,461)		(696,879)	4,106,087	
Others	2,219,386	25,436	(98)	(804,545)		819,065	2,259,244	
	₩ 135,812,499	14,049,887	(683,358)	(8,268,449)	(30,344)	481,116	141,361,351	

(\*1) Korea South-East Power Co., Ltd. and Korea East-West Power Co., Ltd, 100% owned subsidiaries, have determined that there is an impairment indicator and performed an impairment test over the individual assets. As a result, the Company recognized the amount of the carrying amount in excess of its recoverable amount as impairment loss in the consolidated statements of comprehensive income.

(\*2) Others include W23,273 million of land and buildings that were reclassified to assets held for sale (note 42) comprising ~~W~~2,907 million of land and ~~W~~20,366 million of buildings.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****19. Investment Properties****(1) Investment properties as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>			<b>2016</b>	
	<b>Acquisition cost</b>	<b>Government grants</b>	<b>Accumulated depreciation</b>	<b>Book value</b>
Land	₩ 336,421			336,421
Buildings	29,168	(64)	(11,845)	17,259
	₩ 365,589	(64)	(11,845)	353,680

<i>In millions of won</i>			<b>2015</b>	
	<b>Acquisition cost</b>	<b>Government grants</b>	<b>Accumulated depreciation</b>	<b>Book value</b>
Land	₩ 253,960			253,960
Buildings	27,655	(13)	(11,692)	15,950
	₩ 281,615	(13)	(11,692)	269,910

**(2) Changes in investment properties for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>			<b>2016</b>	
	<b>Beginning balance</b>	<b>Depreciation</b>	<b>Others</b>	<b>Ending balance</b>
Land	₩ 253,960		82,461	336,421
Buildings	15,963	(679)	2,039	17,323
(Government grants)	(13)	1	(52)	(64)
	₩ 269,910	(678)	84,448	353,680

*In millions of won*

	<b>2015</b>			
	<b>Beginning balance</b>	<b>Depreciation</b>	<b>Others</b>	<b>Ending balance</b>
Land	₩ 301,483		(47,523)	253,960
Buildings	15,791	(669)	841	15,963
(Government grants)	(10)		(3)	(13)
	₩ 317,264	(669)	(46,685)	269,910

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****19. Investment Properties, Continued****(3) Income and expenses related to investment properties for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Rental income	₩ 9,460	10,931
Operating and maintenance expenses related to rental income	(678)	(669)
	₩ 8,782	10,262

**(4) Fair value of investment properties as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>		<b>2015</b>	
	<b>Book value</b>	<b>Fair value</b>	<b>Book value</b>	<b>Fair value</b>
Land	₩ 336,421	374,042	253,960	284,423
Buildings	17,259	20,708	15,950	18,263
	₩ 353,680	394,750	269,910	302,686

The fair values of the investment properties as of the reporting date were determined in consideration of the fluctuation on the publicly announced individual land price after the K-IFRS transition date (January 1, 2010).

(5) All of the Company's investment property is held under freehold interests.

**20. Construction Contracts**

(1)



**Changes in total contract amount in which revenue is not yet recognized for the years ended December 31, 2016 and 2015 are as follows:**

*In millions of won*

		<b>2016</b>		
	<b>Beginning balance</b>	<b>Increase and decrease (*)</b>	<b>Recognized as revenue</b>	<b>Ending balance</b>
Nuclear power plant construction in UAE and others	₩ 12,308,839	(1,045,094)	(4,026,857)	7,236,888

- (\*) For the year ended December 31, 2016, the increased balance of contracts from new orders and other is ₩718,118 million and the decreased balance of contracts due to changes in scope of construction work is ₩1,763,212 million.

*In millions of won*

		<b>2015</b>		
	<b>Beginning balance</b>	<b>Increase and decrease (*)</b>	<b>Recognized as revenue</b>	<b>Ending balance</b>
Nuclear power plant construction in UAE and others	₩ 17,081,074	(1,011,031)	(3,761,204)	12,308,839

- (\*) For the year ended December 31, 2015, the increased balance of contracts from new orders and other is ₩412,617 million and the decreased balance of contracts due to changes in scope of construction work is ₩1,423,648 million.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****20. Construction Contracts, Continued**

- (2) Accumulated earned revenue, expense and others related to the Company's construction contracts as of December 31, 2016 and 2015 are as follows:

*In millions of won*

		2016		
	Accumulated earned revenue	Accumulated expense	Accumulated profit	Unearned advance receipts
Nuclear power plant construction in UAE and others	₩ 15,314,737	14,396,890	917,847	

*In millions of won*

		2015		
	Accumulated earned revenue	Accumulated expense	Accumulated profit	Unearned advance receipts
Nuclear power plant construction in UAE and others	₩ 12,224,934	11,573,516	651,418	

- (3) Gross amount due from customers recognized as assets and due to customers recognized as liabilities for contract work as of December 31, 2016 and 2015 are as follows:

*In millions of won*

	2016		2015	
	Assets (*1)	Liabilities (*2)	Assets (*1)	Liabilities (*2)
Nuclear power plant construction in UAE and others	₩ 44,930	651,985	55,317	893,992

(\*1) Included in trade and other receivables, net, in the consolidated statements of financial position.

(\*2) Included in non-financial liabilities in the consolidated statements of financial position.

- (4) The contract between the Company and ENEC (purchaser) states that disclosure of information related to UAE nuclear power plant construction projects such as contract date, contractual completion date, completion progress, unbilled construction, impairment losses, etc. is not allowed without agreement of the purchaser. ENEC did not

agree to disclose such information. Accordingly, the Company did not disclose such information based on K-IFRS 1011 45.2(2) as it is probable that ENEC may file a lawsuit for breach of contract if the Company does so. Also, the Company has not disclosed such information in a registration statement, investment prospectus or annual report and reported to the audit committee that those items will not be disclosed in the notes to the financial statements.

**(5) Changes in estimates of contract revenues and costs related to the Company's construction for the year ended December 31, 2016 are as follows:**

*In millions of won*

	2016								
	Changes in Expected loss on construction contracts	Changes in estimates of contract revenue and costs	Amounts recognized in current profit or loss	Amounts recognized in future profit or loss	Assets	Receivables from construction contracts		Changes in estimated total contract costs	
Gross					Allowance for doubtful accounts	Gross	Allowance for doubtful accounts		
Transmission and distribution	₩	(24,494)	46,935	(71,429)	16,331			(1,889,473)	
Electric power generation (nuclear)					1,902				
Plant maintenance & engineering service	233	973	1,061	(88)	25,925	40,980	(8,456)	1,889	
Others					772				
	₩	233	(23,521)	47,996	(71,517)	44,930	40,980	(8,456)	(1,887,584)

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****21. Intangible Assets other than Goodwill****(1) Intangible assets as of December 31, 2016 and 2015 are as follows:***In millions of won*

			<b>2016</b>		
	<b>Acquisition cost</b>	<b>Government grants</b>	<b>Accumulated amortization</b>	<b>Accumulated impairment losses</b>	<b>Book value</b>
Software	₩ 458,382	(595)	(365,161)		92,626
Licenses and franchises	3,398		(3,398)		
Copyrights, patents rights and other industrial rights	35,756		(15,675)		20,081
Mining rights	549,371		(10,511)		538,860
Development expenditures	785,966	(5,152)	(723,561)		57,253
Intangible assets under development	119,474	(11,090)		(3,941)	104,443
Usage rights of donated assets and other	426,346	(21)	(342,244)		84,081
Leasehold rights	23,350		(18,718)		4,632
Greenhouse gas emissions rights	6,283				6,283
Others	173,213		(88,527)	(12,124)	72,562
	<b>₩ 2,581,539</b>	<b>(16,858)</b>	<b>(1,567,795)</b>	<b>(16,065)</b>	<b>980,821</b>

*In millions of won*

			<b>2015</b>		
	<b>Acquisition cost</b>	<b>Government grants</b>	<b>Accumulated amortization</b>	<b>Accumulated impairment losses</b>	<b>Book value</b>
Software	₩ 389,220	(699)	(331,334)		57,187
Licenses and franchises	3,398		(3,398)		
Copyrights, patents rights and other industrial rights	34,178		(12,303)		21,875
Mining rights	508,392		(8,855)		499,537
Development expenditures	751,784	(6,835)	(699,977)		44,972
Intangible assets under development	94,886	(10,483)			84,403
Usage rights of donated assets and other	375,275	(32)	(326,684)		48,559

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Leasehold rights	19,112		(18,367)		745
Greenhouse gas emissions rights	805				805
Others	189,941	(1)	(80,067)	(12,124)	97,749
	<b>₩ 2,366,991</b>	<b>(18,050)</b>	<b>(1,480,985)</b>	<b>(12,124)</b>	<b>855,832</b>

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****21. Intangible Assets other than Goodwill, Continued****(2) Changes in intangible assets as of December 31, 2016 and 2015 are as follows:***In millions of won*

	Beginning balance	2016					Ending balance
		Acquisition	Disposal	Amortization	Impairment	Others	
Software	₩ 57,886	18,267		(32,378)		49,446	93,221
(Government grants)	(699)			249		(145)	(595)
Licenses and franchises							
Copyrights, patents rights and other industrial rights	21,875	85	(39)	(2,697)		857	20,081
Mining rights	499,537	26,311		(899)		13,911	538,860
Development expenditures	51,807	212		(21,993)		32,379	62,405
(Government grants)	(6,835)			2,771		(1,088)	(5,152)
Intangible assets under development	94,886	66,588			(3,945)	(41,996)	115,533
(Government grants)	(10,483)	(1,597)				990	(11,090)
Usage rights of donated assets and other	48,591			(15,513)		51,024	84,102
(Government grants)	(32)			11			(21)
Leasehold rights	745			(351)		4,238	4,632
Greenhouse gas emissions rights	805	6,283				(805)	6,283
Others	97,750	8,273	(550)	(8,916)	3	(23,998)	72,562
(Government grants)	(1)			1			
	₩ 855,832	124,422	(589)	(79,715)	(3,942)	84,813	980,821

*In millions of won*

	Beginning balance	2015					Ending balance
		Acquisition	Disposal	Amortization	Impairment	Others	
Software	₩ 52,556	10,477	(2)	(29,795)	187	24,463	57,886
(Government grants)	(488)			177		(388)	(699)

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Licenses and franchises	54			(54)			
Copyrights, patents rights and other industrial rights	22,677	129	(2)	(2,866)	1,937	21,875	
Mining rights	504,214	23,151		(228)	(27,600)	499,537	
Development expenditures (Government grants)	55,857 (8,183)	8,096	(5)	(24,862) 2,937	12,721 (1,589)	51,807 (6,835)	
Intangible assets under development (Government grants)	74,909 (10,692)	40,300 (1,884)			(22) 2,093	(20,301) (10,483)	94,886
Usage rights of donated assets and other (Government grants)	57,687 (43)			(9,096) 11		48,591 (32)	
Leasehold rights	779			(34)		745	
Greenhouse gas emissions rights		805				805	
Others (Government grants)	71,734 (1)	6,872	(443)	(8,456)	88	27,955 (1)	97,750
	₩ 821,060	87,946	(452)	(72,266)	253	19,291	855,832

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****21. Intangible Assets other than Goodwill, Continued****(3) Significant specific intangible assets as of December 31, 2016 and 2015 are as follows:***In millions of won and thousands of Australian dollars*

		<b>2016</b>		
<b>Type</b>	<b>Description</b>	<b>Currency</b>	<b>Amount</b>	<b>Remaining useful years</b>
Software				11 months ~ 1 year and 11 months
	ERP system and others	KRW	506	months
	SCADA O/S (POWERON RELIANCE)	KRW	4,206	3 years and 1 month
Copyrights, patents rights and other industrial rights	Smart technology verification and standard design project conducting right	KRW	5,750	5 years and 9 months
Mining rights	Mining right of Bylong mine	AUD	401,225	(*)
Development expenditures	Development of maintenance system for utility plant	KRW	518	11 months
Intangible assets under development	Contributions to ARP NRC DC	KRW	41,190	
Usage rights of donated assets	Sejong Haengbogdosi sharing charge	KRW	44,502	9 years and 11 months
	Dangjin power plant load facility usage right	KRW	26,759	4 years and 3 months
Others	Sillim electricity supply facility usage right	KRW	2,196	4 years and 11 months

(\*) Mining rights are amortized using the units-of-production method and the amortization has not commenced yet.

*In millions of won and thousands of Australian dollars*

		<b>2015</b>		
<b>Type</b>	<b>Description</b>	<b>Currency</b>	<b>Amount</b>	<b>Remaining useful years</b>
Software				2 months ~
	ERP system and others	KRW	1,293	2 years and 11 months
Copyrights, patents rights and other industrial rights	Smart technology verification and standard design project	KRW	6,750	6 years and 9 months



	conducting right			
Mining rights	Mining right of Bylong mine	AUD	401,225	(*)
Development expenditures	KOSPO Evolutionary Efficient & Powerful System(KEEPS)	KRW	2,104	1 year and 6 months
	Development of maintenance system for utility plant	KRW	1,084	1 year and 11 months
Intangible assets under development	Contributions to ARP NRC DC	KRW	29,148	
	CHF testing for best representative of HIPER/X2-Gen Fuel and development of best explanatory CHF correlation	KRW	9,871	
Usage rights of donated assets	Songdo international business district(sector 1, 3) sharing charge	KRW	2,793	1 year and 10 months
	Dangjin power plant load facility usage right	KRW	33,055	5 years and 3 months
Others	Shingwangju electricity supply facility usage right	KRW	2,297	3 years and 5 months
	Sillim electricity supply facility usage right	KRW	2,642	5 years and 11 months

(\*) Mining rights are amortized using the units-of-production method and the amortization has not commenced yet.

(4) For the years ended December 31, 2016 and 2015, the Company recognized research and development expenses of ₩705,504 million and ₩611,220 million, respectively.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****22. Trade and Other Payables**

Trade and other payables as of December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>	2016		2015	
	Current	Non-current	Current	Non-current
Trade payables	₩ 2,610,373		1,957,647	
Other trade payables	1,498,582	3,033,780	1,379,035	3,048,299
Accrued expenses	1,152,933	2,161	1,082,880	2,373
Leasehold deposits received	1,426	1,008	2,451	
Other deposits received	197,711	93,751	195,237	105,105
Finance lease liabilities	121,176	420,003	116,885	542,509
Dividends payable	3,204		1,562	
Others (*)	6	7,472		20,149
	₩ 5,585,411	3,558,175	4,735,697	3,718,435

(\*) Details of others as of December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>	2016		2015	
	Current	Non-current	Current	Non-current
Advance received from local governments	₩	7,472		20,149
Others	6			
	₩ 6	7,472		20,149

**23. Borrowings and Debt Securities**

(1) Borrowings and debt securities as of December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
<b>Current liabilities</b>		
Short-term borrowings	₩ 805,523	603,673
Current portion of long-term borrowings	310,977	541,307
Current portion of debt securities	7,825,310	6,704,602
Less : Current portion of discount on long-term borrowings	(979)	(953)
Less : Current portion of discount on debt securities	(1,753)	(1,676)
	8,939,078	7,846,953
<b>Non-current liabilities</b>		
Long-term borrowings	1,799,750	1,951,119
Debt securities	43,012,960	49,077,131
Less : Discount on long-term borrowings	(25,859)	(18,860)
Less : Discount on debt securities	(86,880)	(103,067)
Add : Premium on debt securities	156	223
	44,700,127	50,906,546
	₩ 53,639,205	58,753,499

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****23. Borrowings and Debt Securities, Continued**

(2) Repayment schedule of borrowings and debt securities as of December 31, 2016 and 2015 are as follows:

*In millions of won*

Type	2016	
	Borrowings	Debt Securities
Less than 1 year	₩ 1,116,500	7,825,310
1~ 5 years	295,162	24,462,410
Over 5 years	1,504,588	18,550,550
	₩ 2,916,250	50,838,270

*In millions of won*

Type	2015	
	Borrowings	Debt Securities
Less than 1 year	₩ 1,144,980	6,704,602
1~ 5 years	860,351	27,725,651
Over 5 years	1,090,768	21,351,480
	₩ 3,096,099	55,781,733

(3) Short-term borrowings as of December 31, 2016 and 2015 are as follows:

*In millions of won and thousands of foreign currencies*

Type	Creditor	Interest rate (%)	Maturity	2016	
				Foreign currency	Local currency
Local short-term borrowings	Woori Investment Bank	1.54~2.51	2017.01.25~		₩ 436,800

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	and others		2017.09.13			
Foreign short-term borrowings			2017.03.30~			
	SCNT and others	1.58~6.50	2017.12.03	USD	35,086	42,401
Foreign short-term borrowings	Export-import Bank of Korea	3M Libor+0.54~0.63	2017.12.18	AUD	311,174	271,360
Local bank overdraft	Nonghyup Bank	2.45	2017.01.05			37,000
Local bank overdraft	Woori Bank	Standard overdraft rate+1.12	2017.02.25			17,962
						₩ 805,523

*In millions of won and thousands of U.S. dollars*

**2015**

Type	Creditor	Interest rate (%)	Maturity	Foreign currency	Local currency	
Local short-term borrowings	Woori Investment Bank and others	1.80~2.46	2016.01.04~ 2016.09.13		₩ 559,530	
Foreign short-term borrowings	ING and others	6.50	2016.12.03	USD	2,163	
Foreign short-term borrowings	Citi Bank and others	3M Libor+0.35	2016.03.22	USD	12,265	
Local bank overdraft	Woori Bank	Standard overdraft rate+1.12	2016.02.25		27,233	
						₩ 603,673

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****23. Borrowings and Debt Securities, Continued****(4) Long-term borrowings as of December 31, 2016 and 2015 are as follows:***In millions of won and thousands of foreign currencies*

		2016		Foreign	Local
Type		Interest rate (%)	Maturity	currency	currency
<b>Local long-term borrowings</b>					
Korea Development Bank	Others	0.50	2018~2044	₩	5,663
	Facility	2.45~4.60	2023~2028		61,835
		1yr KoFC bond rate			
	Facility	+0.31	2018		125,000
	Operating funds	2.75	2018		12,000
KEB Hana Bank	Commercial Paper	3M CD+0.14	2017		100,000
	Facility	4.60	2028		16,851
	Facility	3yr KTB rate -1.25	2017~2028		9,655
Korea Industrial Bank	PF Refinancing	CD+1.25	2030		22,500
Export-Import Bank of Korea	Project loans	1.50	2026		30,935
Korea Resources Corporation	Development of power resources	3yr KTB rate -2.25	2022~2025		14,039
	Facility	3yr KTB rate -2.25	2017~2024		3,842
	Project loans		2022~2025		3,733
	Others	KTB rate -2.25	2024~2025		12,131
Shinhan Bank and others	Collateral borrowing	2.22	2017		30,000
	Facility	CB rate+1.10	2028		25,276
	Operating funds	2.70~2.86	2017~2018		25,000
	Others	4.10	2035		55,000
	Others	3yr KTB rate+1.10	2035		55,000
Kookmin Bank	Facility	MOR+0.62~0.79	2017~2023		45,000
Others	Facility	1.75~4.60	2026~2029		146,472
	Facility	CB rate+1.10~1.20	2022~2028		34,951
	PF Refinancing	4.10	2030		62,500
	Others	8.00	2036		102,347
	Others		2028		7,250

1,006,980

**Foreign long-term borrowings**

Korea National Oil Corporation	Project loans		2021~2023	USD	8,744	10,567
Export-Import Bank of Korea and others	Direct loan and others	3M Libor+2.75~3.70	2027	JOD	178,892	305,332
	Commercial loan and others	3M Libor+1.50~2.50	2030~2033	USD	299,859	362,379
	PF Loan	6M Libor+2.50~2.70	2032	USD	119,647	144,594
SCNT and others	Shareholder's loan	6.50~8.00	2023	USD	40,618	49,086
	Shareholder's loan	8.00	2031	JOD	7,128	12,166
PT PJB	Shareholder's loan	12.75	2019	IDR	16,705,505	1,500
Samsung Life Insurance and others	Syndicated Loan	3.10	2032	JPY	1,758,000	18,227
Woori Bank and others	Syndicated Loan	JPY 6M Libor+2.10	2032	JPY	1,172,000	12,151
SMBC and others	Equity Bridge Loan	1M Libor+0.90	2019	USD	37,978	45,897
IFC and others	Others	6M Libor+5.00	2031	PKR	11,706,160	134,972
Others	Others		2019	USD	5,691	6,876
						1,103,747
						2,110,727
Less : Discount of long-term borrowings						(26,838)
Less : Current portion of long-term borrowings						(310,977)
Add : Current portion of discount on long-term borrowings						979
						₩ 1,773,891

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****23. Borrowings and Debt Securities, Continued****(4) Long-term borrowings as of December 31, 2016 and 2015 are as follows, continued:***In millions of won and thousands of foreign currencies*

		2015		Foreign	Local
Type		Interest rate (%)	Maturity	currency	currency
<b>Local long-term borrowings</b>					
Korea Development Bank	Others Facility	0.50	2018~2044	₩	6,418
	Facility	2.67~4.60	2023~2028		52,437
	Facility	3yr KTB rate-1.25 1yr KoFC bond rate	2027		9,000
	Facility	+0.31	2018		200,000
	Operating funds	2.75	2018		12,000
KEB Hana Bank	Commercial Paper	3M CD+0.03~0.54	2016~2017		500,000
	Facility	3yr KTB rate-1.25	2021~2028		10,363
	Facility	4.60	2028		18,411
	Energy rationalization	3yr KTB rate-1.25	2019		650
	Energy rationalization	3.20~3.70	2021~2022		3,835
Korea Industrial Bank	PF Refinancing	CD+1.25	2030		22,500
	Others	3yr KTB rate-1.25	2016		4,000
Export-Import Bank of Korea	Project loans	2.00	2026		30,935
Korea Resources Corporation	Development of power resources	3yr KTB rate-2.25	2022~2027		44,674
	Facility	3yr KTB rate-2.25	2023~2024		4,400
	Project loans		2022~2027		8,677
	Others	3yr KTB rate-2.25	2024~2025		13,057
Shinhan Bank and others	Collateral borrowing	2.22	2017		30,000
	Facility	+1.10	2028		27,617
	Operating funds	2.70~3.35	2017~2018		25,000



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Kookmin Bank	Facility	MOR+0.62~0.79	2017~2023			25,300
Others	Facility	4.60~5.80	2025~2028			144,359
		3yr AA- CB rate				
	Facility	+1.10	2028			18,411
	PF Refinancing	4.10	2030			62,500
	Others		2020~2036			45,847
	Others		2028			7,250

1,327,641

**Foreign long-term borrowings**

Korea National Oil Corporation	Project loans		2021~2023	USD	8,744	10,248
Export-Import Bank of Korea and others	Direct loan and others	3M Libor+2.75~3.70	2027	JOD	188,580	312,104
	Commercial loan and others	3M Libor+1.50~2.50	2030~2033	USD	312,601	366,368
	PF Loan	6M Libor+2.50~2.70	2032	USD	64,389	75,464
SCNT and others	Shareholder's loan	6.50~8.00	2023	USD	34,924	40,931
	Shareholder's loan	8.00	2031	JOD	7,128	11,797
PT PJB and others	Shareholder's loan	12.75	2017	IDR	22,346,550	1,899
HSBC and others	Syndicated loan	3M Libor+0.30~0.50	2017~2019	USD	31,774	37,239
IFC and others	Others	6M Libor+5.00	2031	PKR	5,891,200	65,805
Others	Others	3M Libor+0.65	2017	USD	199,269	233,543
	Others		2019	USD	8,010	9,387

1,164,785

2,492,426

Less : Discount of long-term borrowings	(19,813)
Less : Current portion of long-term borrowings	(541,307)
Add : Current portion of discount on long-term borrowings	953

₩ 1,932,259

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****23. Borrowings and Debt Securities, Continued****(5) Local debt securities as of December 31, 2016 and 2015 are as follows:***In millions of won*

	Issue date	Maturity	Interest rate (%)	2016	2015
Electricity Bonds (*1)	2009.12.03~	2017.01.05~			
	2014.08.27	2033.08.06	2.73~5.51	₩ 19,860,000	22,960,000
Electricity Bonds			3M CD		
	2012.07.10~	2017.07.10~			
	2013.06.25	2018.06.25	+0.31~0.32	310,000	910,000
Corporate Bonds (*2)	2009.05.04~	2017.01.17~			
	2016.12.02	2040.12.10	1.36~5.84	19,552,708	20,710,010
				39,722,708	44,580,010
Less : Discount on local debt securities				(34,667)	(40,228)
Less : Current portion of local debt securities				(5,650,010)	(5,730,000)
Add : Current portion of discount on local debt securities				728	1,187
				₩ 34,038,759	38,810,969

(\*1) Electricity Bonds 885 (₩40,000 million) can be redeemed every April 28 after three years from its issue date, April 28, 2014.

(\*2) Corporate Bonds of HeeMang Sunlight Power Co., Ltd (₩2,697 million) can be redeemed every March 31 after five years from its issue date, March 31, 2016.

**(6) Foreign debt securities as of December 31, 2016 and 2015 are as follows:***In millions of won and thousands of foreign currencies*

Type	Issue date	Maturity	Interest rate (%)	2016
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					Foreign currency		Local currency
FY-96	1996.04.01~1996.12.06	2026.12.06~2096.04.01	6.00~8.37	USD	249,068	₩	300,999
FY-97	1997.01.31~1997.08.04	2027.02.01~2027.08.01	6.75~7.00	USD	314,717		380,335
FY-04	2004.04.23	2034.04.23	5.13	USD	286,920		346,743
FY-08	2008.11.27	2018.11.27	4.19	JPY	20,000,000		207,362
FY-11	2011.07.13~2011.07.29	2017.01.30~2021.07.13	3.63~4.75	USD	800,000		966,800
FY-12	2012.05.10~2012.09.19	2017.05.10~2022.09.19	2.50~3.13	USD	1,750,000		2,114,875
FY-13	2013.02.05~2013.11.27	2018.02.05~2018.11.27	1.88~2.88	USD	1,900,000		2,296,150
FY-13	2013.09.26~2013.10.23	2019.03.26~2019.04.23	1.50~1.63	CHF	400,000		472,532
FY-13	2013.09.25	2020.09.25	5.75	AUD	325,000		283,416
FY-13	2013.02.20~2013.07.25	2018.02.20~2018.07.25	3M Libor+0.84~1.50	USD	500,000		604,250
FY-14	2014.02.11~2014.12.02	2019.02.11~2029.07.30	2.38~3.57	USD	1,500,000		1,812,750
FY-14	2014.01.28~2014.07.31	2017.01.28~2017.07.31	3M Libor+0.55~1.05	USD	500,000		604,250
FY-15	2015.06.15	2025.06.15	3.25	USD	300,000		362,550
FY-16	2016.01.21	2021.07.21	2.50	USD	300,000		362,550
							11,115,562
							(53,966)
							156
							(2,175,300)
							1,025
							₩ 8,887,477

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****23. Borrowings and Debt Securities, Continued****(6) Foreign debt securities as of December 31, 2016 and 2015 are as follows, continued:***In millions of won and thousands of foreign currencies***2015**

Type	Issue date	Maturity	Interest rate (%)	Foreign currency	Local currency
FY-96	1996.04.01~1996.12.06	2026.12.06~2096.04.01	6.00~8.37	USD	₩ 291,990
FY-97	1997.01.31~1997.08.04	2027.02.01~2027.08.01	6.75~7.00	USD	368,848
FY-04	2004.04.23	2034.04.23	5.13	USD	336,270
FY-06	2006.03.14~2006.09.29	2016.03.14~2016.09.29	5.50~6.00	USD	761,800
FY-08	2008.11.27	2018.11.27	4.19	JPY	194,401
FY-11	2011.07.13~2011.07.29	2017.01.30~2021.07.13	3.63~4.75	USD	937,600
FY-12	2012.05.10~2012.09.19	2017.05.10~2022.09.19	2.50~3.13	USD	2,051,000
FY-13	2013.02.05~2013.11.27	2018.02.05~2018.11.27	1.88~2.88	USD	2,226,800
FY-13	2013.09.26~2013.10.23	2019.03.26~2019.04.23	1.50~1.63	CHF	474,156
FY-13	2013.09.25	2020.09.25	5.75	AUD	277,258
FY-13	2013.02.20~2013.07.25	2018.02.20~2018.07.25	3M Libor+0.84~1.50	USD	586,000
FY-14	2014.02.11~2014.12.02	2019.02.11~2029.07.30	2.38~3.57	USD	1,758,000
FY-14	2014.01.28~2014.07.31	2017.01.28~2017.07.31	3M Libor+0.55~1.05	USD	586,000
FY-15	2015.06.15	2025.06.15	3.25	USD	351,600
					11,201,723
					(64,515)
					223
					(974,602)
					489
					₩ 10,163,318

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****24. Finance Lease Liabilities****(1) Lease contracts**

The Company enters into power purchase agreements ( PPA ) with 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, 2016 and 2015 are as follows and are included in current and non-current trade and other payables, net, in the consolidated statements of financial position:**

<i>In millions of won</i>	2016		2015	
	Minimum lease payments	Present value of minimum lease payments	Minimum lease payments	Present value of minimum lease payments
Less than 1 year	₩ 175,512	121,176	182,072	116,885
1 ~ 5 years	404,029	306,282	525,465	393,957
More than 5 years	152,247	113,721	206,323	148,552
	₩ 731,788	541,179	913,860	659,394

**(3) Current and non-current portion of finance lease liabilities as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	2016	2015
Current finance lease liabilities	₩ 121,176	116,885
Non-current finance lease liabilities	420,003	542,509
	₩ 541,179	659,394

- (4) Lease payments recognized as an expense as a lessee for the years ended December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Minimum lease payment	₩ 177,585	194,960
Contingent rent payment	(20,956)	(17,682)

- (5) The Company does not have any irrevocable operating lease contracts as of December 31, 2016 and 2015.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****25. Employment Benefits****(1) Employment benefit obligations as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Net defined benefit obligations	₩ 1,678,470	1,495,782
Other long-term employee benefit obligations	7,788	7,325
	₩ 1,686,258	1,503,107

**(2) Principal assumptions on actuarial valuation as of December 31, 2016 and 2015 are as follows:**

	<b>2016</b>	<b>2015</b>
Discount rate	2.45% ~ 2.64%	2.39% ~ 2.58%
Future salary and benefit levels	5.23%	5.43%
Weighted average duration	13.34 years	13.21 years

**(3) Details of expense relating to defined benefit plans for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Current service cost	₩ 378,930	315,811
Interest cost	67,104	63,808
Expected return on plan assets	(23,612)	(22,557)
Loss from settlement	(706)	(641)
	₩ 421,716	356,421

**Expenses as described above are recognized in those items below in the financial statements.**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Cost of sales	₩ 312,391	262,760
Selling and administrative expenses	61,362	51,932
Others (Construction-in-progress and others)	47,963	41,729
	₩ 421,716	356,421

In addition, for the years ended December 31, 2016 and 2015, employee benefit obligations expenses of ₩62,435 million and ₩57,940 million, respectively, is recognized as cost of sales, and ₩11,450 million and ₩9,971 million, respectively, is recognized as selling and administrative expenses, and ₩14,024 million and ₩14,195 million, respectively, are recognized as construction-in-progress and others, relates to the Company's defined contribution plans.



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****25. Employment Benefits, Continued****(4) Details of defined benefit obligations as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Present value of defined benefit obligation from funded plans	₩ 2,867,377	2,426,414
Fair value of plan assets	(1,188,907)	(930,632)
	1,678,470	1,495,782
Present value of defined benefit obligation from unfunded plans		
Net liabilities incurred from defined benefit plans	₩ 1,678,470	1,495,782

**(5) Changes in the present value of defined benefit obligations for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Beginning balance	₩ 2,426,414	1,992,447
Current service cost	378,930	315,811
Interest cost (*)	67,104	63,808
Remeasurement component	120,993	122,825
Loss from settlement	(707)	(641)
Actual payments	(125,233)	(67,291)
Others	(124)	(545)
Ending balance	₩ 2,867,377	2,426,414

(\*) Corporate bond (AAA rated) yield at year-end is applied to the interest cost on employee benefit obligations.

**(6) Changes in the fair value of plan assets for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Beginning balance	₩ 930,632	724,250
Expected return	23,612	22,557
Remeasurement component	(5,706)	(5,924)
Contributions by the employers	312,125	214,449
Actual payments	(71,756)	(24,191)
Others		(509)
<b>Ending balance</b>	<b>₩ 1,188,907</b>	<b>930,632</b>

In addition, loss on accumulated remeasurement component amounted to ₩222,997 million and ₩202,878 million has been recognized as other comprehensive income or loss for the years ended December 31, 2016 and 2015, respectively.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****25. Employment Benefits, Continued****(7) Details of the fair value of plan assets as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Equity instruments	₩ 86,054	12,791
Debt instruments	383,654	243,372
Bank deposit	305,670	129,350
Others	413,529	545,119
	₩ 1,188,907	930,632

For the years ended December 31, 2016 and 2015, actual returns on plan assets amounted to ₩17,906 million and ₩16,633 million, respectively.

**(8) Remeasurement component recognized in other comprehensive income (loss) for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Actuarial gain from changes in financial assumptions	₩ (27,792)	140,411
Experience adjustments	148,785	(17,586)
Expected return	5,706	5,924
	₩ 126,699	128,749

Remeasurement component recognized as other comprehensive income or loss is recorded in retained earnings.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****26. Provisions****(1) Provisions as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>		<b>2015</b>	
	<b>Current</b>	<b>Non-current</b>	<b>Current</b>	<b>Non-current</b>
Employment benefits				
Provisions for employment benefits	₩ 810,607		718,365	
Litigation				
Litigation provisions	79,359	118,878	57,737	110,228
Decommissioning cost				
Nuclear plants		10,195,928		9,684,286
Spent fuel		1,374,225		1,375,185
Waste	2,566	1,476,936		1,502,140
PCBs		191,744		182,400
Other recovery provisions		507		862
Others				
Power plant regional support program	152,851		129,655	
Transmission regional support program	282,608		228,785	
Provisions for tax	106	136		136
Provisions for financial guarantee	458	29,207	1,839	2,449
Provisions for RPS	417,404		363,178	
Provisions for greenhouse gas emissions obligations	249,644		78,829	
Others	4,385	39,590	788	7,068
	₩ 1,999,988	13,427,151	1,579,176	12,864,754

**(2) Changes in provisions for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>					<b>Ending</b>
	<b>Beginning</b>	<b>Accretion</b>	<b>Payment</b>	<b>Reversal</b>	<b>Other</b>	

	<b>balance</b>	<b>expenses</b>					<b>balance</b>
<b>Employment benefits</b>							
Provisions for employment benefits	₩ 718,365	1,047,342	(947,982)	(7,108)	(10)		810,607
<b>Litigation</b>							
Litigation provisions	167,965	124,931	(294,403)	(20,736)	220,480		198,237
<b>Decommissioning cost</b>							
Nuclear plants	9,684,286	513,383	(1,741)				10,195,928
Spent fuel	1,375,185	469,982	(470,942)				1,374,225
Waste	1,502,140	49,092	(71,998)		268		1,479,502
PCBs	182,400	30,675	(21,331)				191,744
Other recovery provisions	862			(20)	(335)		507
<b>Others</b>							
Power plant regional support program	129,655	50,252	(41,540)		14,484		152,851
Transmission regional support program	228,785	253,664	(199,841)				282,608
Provisions for tax	136	125			(19)		242
Provisions for financial guarantee	4,288	29,741		(4,298)	(66)		29,665
Provisions for RPS	363,178	420,154	(309,975)	(55,953)			417,404
Provisions for greenhouse gas emissions obligations	78,829	298,618	(116,336)	(11,467)			249,644
Others	7,856	37,491	(2,699)	(9)	1,336		43,975
	₩ 14,443,930	3,325,450	(2,478,788)	(99,591)	236,138		15,427,139

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****26. Provisions, Continued**

(2) Changes in provisions for the years ended December 31, 2016 and 2015 are as follows, continued:

*In millions of won*

		Beginning balance	Accretion expenses	2015 Payment	Reversal	Other	Ending balance
<b>Employment benefits</b>							
Provisions for employment benefits	₩	707,310	727,079	(715,850)	(174)		718,365
<b>Litigation</b>							
Litigation provisions		200,289	111,301	(85,819)	(58,306)	500	167,965
<b>Decommissioning cost</b>							
Nuclear plants		10,331,270	650,218	(622)	(1,296,580)		9,684,286
Spent fuel		1,298,749	568,190	(491,754)			1,375,185
Waste		1,604,241	58,294	(160,699)		304	1,502,140
PCBs		199,518	10,359	(27,477)			182,400
Other recovery provisions		828	34				862
<b>Others</b>							
Power plant regional support program		120,093	37,569	(37,648)		9,641	129,655
Transmission regional support program			393,460	(164,675)			228,785
Provisions for tax		649			(513)		136
Provisions for financial guarantee		3,695	3,528		(2,936)	1	4,288
Provisions for RPS		329,562	259,964	(165,259)	(61,089)		363,178
Provisions for greenhouse gas emissions obligations			78,829				78,829
Others		6,992	1,410	(590)	44		7,856
	₩	14,803,196	2,900,235	(1,850,393)	(1,419,554)	10,446	14,443,930

**27. Government Grants****(1) Government grants as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Land	₩ (3,204)	(3,147)
Buildings	(61,188)	(63,932)
Structures	(197,641)	(193,119)
Machinery	(111,064)	(108,935)
Vehicles	(107)	(29)
Equipment	(732)	(1,026)
Tools	(430)	(691)
Construction-in-progress	(135,807)	(139,898)
Investment properties	(64)	(13)
Software	(595)	(699)
Development expenditures	(5,152)	(6,835)
Intangible assets under development	(11,090)	(10,483)
Usage rights of donated assets and other	(21)	(32)
Others		(1)
	₩ (527,095)	(528,840)

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****27. Government Grants, Continued****(2) Changes in government grants for the years ended December 31, 2016 and 2015 are as follows:***In millions of won*

	Beginning balance	Receipt	Acquisition	2016 Offset the items of depreciation expense and others	Disposal	Others	Ending balance
Cash	₩	(32,878)				32,878	
Land	(3,147)				14	(71)	(3,204)
Buildings	(63,932)			5,299	731	(3,286)	(61,188)
Structures	(193,119)			9,491	2,597	(16,610)	(197,641)
Machinery	(108,935)			12,272	1,210	(15,611)	(111,064)
Vehicles	(29)			25		(103)	(107)
Equipment	(1,026)			452		(158)	(732)
Tools	(691)			295		(34)	(430)
Construction-in-progress	(139,898)		32,525			(28,434)	(135,807)
Investment properties	(13)			1		(52)	(64)
Software	(699)			249		(145)	(595)
Development expenditures	(6,835)			2,771		(1,088)	(5,152)
Intangible assets under development	(10,483)		991			(1,598)	(11,090)
Usage rights of donated assets and other	(32)			11			(21)
Others	(1)			1			
	₩ (528,840)	(32,878)	33,516	30,867	4,552	(34,312)	(527,095)

*In millions of won*

	Beginning balance	Receipt	Acquisition	2015 Offset the items of	Disposal	Others	Ending balance
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**depreciation  
expense  
and  
others**

Cash	₩	(52,696)				52,696		
Land		(3,103)				(44)	(3,147)	
Buildings		(67,700)		5,064		(1,296)	(63,932)	
Structures		(196,871)		9,178	1,816	(7,242)	(193,119)	
Machinery		(108,750)		11,133	1,101	(12,419)	(108,935)	
Vehicles		(76)		47	1	(1)	(29)	
Equipment		(1,002)		469		(493)	(1,026)	
Tools		(862)		268		(97)	(691)	
Construction-in-progress		(123,938)	11,279			(27,239)	(139,898)	
Investment properties		(10)				(3)	(13)	
Software		(488)		177		(388)	(699)	
Development expenditures		(8,183)		2,937		(1,589)	(6,835)	
Intangible assets under development		(10,692)	2,093			(1,884)	(10,483)	
Usage rights of donated assets and other		(43)		11			(32)	
Others		(1)					(1)	
	₩	(521,719)	(52,696)	13,372	29,284	2,918	1	(528,840)

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****28. Deferred Revenues**

Deferred revenue related to the Company's construction contracts as of December 31, 2016 and 2015 are as follows which included in current and non-current non-financial liabilities in the consolidated statements of financial position:

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Beginning balance	₩ 7,165,297	6,850,016
Increase during the current year / period	1,087,765	691,276
Recognized as revenue during the current year / period	(427,297)	(375,995)
Ending balance	₩ 7,825,765	7,165,297

**29. Non-financial Liabilities**

Non-financial liabilities as of December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>	<b>2016</b>		<b>2015</b>	
	<b>Current</b>	<b>Non-current</b>	<b>Current</b>	<b>Non-current</b>
Advance received	₩ 4,498,739	148,404	5,017,735	215,096
Unearned revenue	26,084	41,936	21,810	63,850
Deferred revenue	445,018	7,380,747	372,157	6,793,140
Withholdings	263,263	10,781	146,258	6,731
Others	1,135,106	9,737	762,751	13,435
	₩ 6,368,210	7,591,605	6,320,711	7,092,252

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****30. Contributed Capital****(1) Details of shares issued as of December 31, 2016 and 2015 are as follows:***In millions of won except share information*

			<b>2016</b>			
	<b>Shares authorized</b>	<b>Shares issued</b>	<b>Par value per share</b>	<b>Owned by government (*)</b>	<b>Owned by others</b>	<b>Total</b>
Common shares	1,200,000,000	641,964,077	₩ 5,000	1,640,385	1,569,435	3,209,820

(\*) Korea Development Bank's ownership of ₩1,056,176 million is included.

*In millions of won except share information*

			<b>2015</b>			
	<b>Shares authorized</b>	<b>Shares issued</b>	<b>Par value per share</b>	<b>Owned by government (*)</b>	<b>Owned by others</b>	<b>Total</b>
Common shares	1,200,000,000	641,964,077	₩ 5,000	1,640,385	1,569,435	3,209,820

(\*) Korea Development Bank's ownership of ₩1,056,176 million is included.

**(2) Details in number of outstanding capital stock for the years ended December 31, 2016 and 2015 are as follows:**

<i>Number of shares</i>	<b>2016</b>	<b>2015</b>
Beginning balance	641,964,077	641,964,077
Ending balance	641,964,077	641,964,077

(3) Details of share premium as of December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Share premium	₩ 843,758	843,758

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****31. Retained Earnings and Dividends Paid****(1) Details of retained earnings as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Legal reserve (*)	₩ 1,604,910	1,604,910
Voluntary reserves	31,847,275	23,720,167
Retained earnings before appropriations	19,721,686	22,862,164
Retained earnings	₩ 53,173,871	48,187,241

(\*) The KEPCO Act requires KEPCO 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 KEPCO'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) Details of voluntary reserves as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Reserve for investment on social overhead capital	₩ 5,277,449	5,277,449
Reserve for research and human development (*)	330,000	330,000
Reserve for business expansion	26,029,826	17,902,718
Reserve for equalizing dividends	210,000	210,000
	₩ 31,847,275	23,720,167

(\*) The reserve for research and human development is appropriated by KEPCO 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, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Beginning balance	₩ 48,187,241	35,303,647
Net profit for the period attributed to owner of the Company	7,048,581	13,289,127
Changes in equity method retained earnings	(2,532)	(280)
Remeasurement of defined benefit liability, net of tax	(69,330)	(84,271)
Dividend paid	(1,990,089)	(320,982)
Ending balance	₩ 53,173,871	48,187,241

**(4) Dividends paid for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>		<b>2016</b>			
	<b>Number of shares issued</b>	<b>Number of treasury stocks</b>	<b>Number of shares eligible for dividends</b>	<b>Dividends paid per share (In won)</b>	<b>Dividends paid</b>
Common shares	641,964,077		641,964,077	₩ 3,100	1,990,089

<i>In millions of won</i>		<b>2015</b>			
	<b>Number of shares issued</b>	<b>Number of treasury stocks</b>	<b>Number of shares eligible for dividends</b>	<b>Dividends paid per share (In won)</b>	<b>Dividends paid</b>
Common shares	641,964,077		641,964,077	₩ 500	320,982

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****31. Retained Earnings and Dividends Paid, Continued****(5) Changes in retained earnings of investments in associates and joint ventures for the years ended December 31, 2016 and 2015 are as follows :**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Beginning balance	₩ (2,411)	(2,131)
Changes	(2,532)	(280)
Ending balance	₩ (4,943)	(2,411)

**(6) Changes in remeasurement components related to defined benefit liability for the years ended December 31, 2016 and 2015 are as follows :**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Beginning balance	₩ (202,878)	(116,705)
Changes	(119,316)	(127,184)
Income tax effect	49,986	42,913
Transfer to reserve for business expansion	49,211	(1,902)
Ending balance	₩ (222,997)	(202,878)

**32. Statement of Appropriation of Retained Earnings**

For the year ended December 31, 2015, KEPCO's retained earnings were appropriated on March 22, 2016.

For the year ended December 31, 2016, KEPCO's retained earnings are expected to be appropriated on March 21, 2017. Statements of appropriation of retained earnings of KEPCO, the controlling company, for the years ended December 31, 2016 and 2015 are as follows:

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<i>In millions of won except for dividends per share</i>	<b>2016</b>	<b>2015</b>
<b>I. Retained earnings before appropriations</b>		
Unappropriated retained earnings carried over from prior years	₩	
Net income	4,261,986	10,165,653
Remeasurements of the defined benefit plan	(4,328)	(48,457)
	4,257,658	10,117,196
<b>II. Transfer from voluntary reserves</b>		
<b>III. Subtotal ( I+II )</b>	4,257,658	10,117,196
<b>IV. Appropriations of retained earnings</b>	(4,257,658)	(10,117,196)
Legal reserve		
Dividends (government, individual)		
(Amount of dividends per share (%): Current year		
₩1,980 (40%)		
	Prior year	
₩3,100 (62%)	(1,271,089)	(1,990,089)
Reserve for business expansion	(2,986,569)	(8,127,107)
<b>V. Unappropriated retained earnings to be carried over forward to subsequent year</b>		



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****33. Hybrid Bonds**

Bond-type hybrid securities classified as equity (non-controlling interest) as of December 31, 2016 are as follows:

<i>In millions of won</i>					
<b>Issuer</b>	<b>Hybrid bond</b>	<b>Issued date</b>	<b>Maturity</b>	<b>Yield (%)</b>	<b>Amount</b>
	1st bond-type				
Korea Western Power Co., Ltd.	hybrid bond	2012.10.18	2042.10.18	5yr government bond rate+1.20	₩ 100,000
	1st bond-type				
Korea South-East Power Co., Ltd.	hybrid bond	2012.12.07	2042.12.06	4.38	170,000
	2nd bond-type				
Korea South-East Power Co., Ltd.	hybrid bond	2012.12.07	2042.12.06	4.44	230,000
Expense of issuance					(1,340)
					₩ 498,660

Although these instruments have contractual maturity dates, the contractual agreements allow these subsidiaries to indefinitely extend the maturity dates and defer the payment of interest without modification to the other terms of the instruments. When the Company decides to not pay dividends on ordinary shares, they are not required to pay interest on the hybrid bonds.

Substantially, as these instruments have no contractual obligation to pay principal and interest, these instruments have been classified as equity (non-controlling interest) in the Company's consolidated financial statements.

**34. Other Components of Equity****(1) Other components of equity as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Other capital surplus	₩ 1,235,146	1,197,388

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Accumulated other comprehensive loss	(33,875)	(98,713)
Other equity	13,294,973	13,294,973
	₩ 14,496,244	14,393,648

(2) Changes in other capital surplus for the years ended December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>	2016			2015		
	Gain on disposal of treasury stocks	Others	Subtotal	Gain on disposal of treasury stocks	Others	Subtotal
Beginning balance	₩ 387,524	809,864	1,197,388	387,524	763,878	1,151,402
Disposal of subsidiary		36,008	36,008		58,310	58,310
Change in consolidation scope					(716)	(716)
Issuance of share capital of subsidiary		1,750	1,750		2,536	2,536
Income tax effect					(14,144)	(14,144)
Ending balance	₩ 387,524	847,622	1,235,146	387,524	809,864	1,197,388

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****34. Other Components of Equity, Continued****(3) Changes in accumulated other comprehensive income (loss) for the years ended December 31, 2016 and 2015 are as follows:***In millions of won*

	<b>2016</b>				
	<b>Available-for-sale financial asset valuation reserve</b>	<b>Shares in other comprehensive Income (loss) of investments in associates and joint ventures</b>	<b>Reserve for overseas operations translation credit</b>	<b>Reserve for gain (loss) on valuation of derivatives</b>	<b>Total</b>
Beginning balance	₩ (24,905)	276,373	(254,462)	(95,719)	(98,713)
Changes in the unrealized fair value of available-for-sale financial assets, net of tax	61,275				61,275
Shares in other comprehensive loss of associates and joint ventures, net of tax		(54,918)			(54,918)
Foreign currency translation of foreign operations, net of tax			31,406		31,406
Net change in the unrealized fair value of derivatives using cash flow hedge accounting, net of tax				27,075	27,075
Ending balance	₩ 36,370	221,455	(223,056)	(68,644)	(33,875)

*In millions of won*

	<b>2015</b>				
	<b>Available-for-sale financial asset valuation reserve</b>	<b>Shares in other comprehensive income of investments</b>	<b>Reserve for overseas operations translation credit</b>	<b>Reserve for gain (loss) on valuation</b>	<b>Total</b>

		<b>in associates and joint ventures</b>		<b>of derivatives</b>	
Beginning balance	₩ (34,649)	186,897	(255,641)	(98,876)	(202,269)
Changes in the unrealized fair value of available-for-sale financial assets, net of tax	9,744				9,744
Shares in other comprehensive income of associates and joint ventures, net of tax		89,476			89,476
Foreign currency translation of foreign operations, net of tax			1,179		1,179
Net change in the unrealized fair value of derivatives using cash flow hedge accounting, net of tax				3,157	3,157
Ending balance	₩ (24,905)	276,373	(254,462)	(95,719)	(98,713)

**(4) Details of other equity as of ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Statutory revaluation reserve	₩ 13,295,098	13,295,098
Changes in other equity	(125)	(125)
	₩ 13,294,973	13,294,973

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****35. Sales**

Details of sales for the years ended December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>	<b>2016</b>			<b>2015</b>		
	<b>Domestic</b>	<b>Overseas</b>	<b>Total</b>	<b>Domestic</b>	<b>Overseas</b>	<b>Total</b>
Sales of goods	₩ 54,982,095	397,392	55,379,487	53,961,463	405,573	54,367,036
Electricity	54,304,529		54,304,529	53,229,470		53,229,470
Heat supply	181,597		181,597	204,987		204,987
Others	495,969	397,392	893,361	527,006	405,573	932,579
Sales of service	195,697	161,046	356,743	209,189	244,298	453,487
Sales of construction services	132,219	3,894,638	4,026,857	180,424	3,580,780	3,761,204
Revenue related to transfer of assets from customers	427,297		427,297	375,995		375,995
	₩ 55,737,308	4,453,076	60,190,384	54,727,071	4,230,651	58,957,722

**36. Selling and Administrative Expenses**

(1) Selling and administrative expenses for the years ended December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Salaries	₩ 734,930	655,432
Retirement benefit expense	72,812	61,903
Welfare and benefit expense	162,243	119,866
Insurance expense	11,513	10,636
Depreciation	169,431	102,867
Amortization of intangible assets	35,171	40,465
Bad debt expense	38,719	290
Commission	605,879	562,171
Advertising expense	34,658	30,085
Training expense	6,314	4,988
Vehicle maintenance expense	10,390	10,529

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Publishing expense	3,643	3,124
Business development expense	3,477	3,338
Rent expense	40,020	44,905
Telecommunication expense	25,448	22,678
Transportation expense	596	753
Taxes and dues	46,531	55,970
Expendable supplies expense	6,834	7,272
Water, light and heating expense	9,720	9,558
Repairs and maintenance expense	75,122	74,330
Ordinary development expense	188,063	178,472
Travel expense	16,115	14,388
Clothing expense	8,273	5,751
Survey and analysis expense	666	590
Membership fee	1,132	1,040
Others	331,532	131,860
	<b>₩ 2,639,232</b>	<b>2,153,261</b>

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****36. Selling and Administrative Expenses, Continued****(2) Other selling and administrative expenses for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Accommodation development expenses	₩ 186,896	28,134
Miscellaneous wages	31,907	43,109
Litigation and filing expenses	12,328	10,670
Compensation for damages	60,341	9,032
Outsourcing expenses	3,530	2,865
Reward expenses	3,267	2,472
Overseas market development expenses	2,177	1,541
Others	31,086	34,037
	₩ 331,532	131,860

**37. Other Non-operating Income and Expense****(1) Other non-operating income for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Reversal of other provisions	₩ 22,034	6,355
Reversal of other allowance for bad debt	5,489	413
Gains on government grants	111	204
Gains on assets contributed	12,254	9,004
Gains on liabilities exempted	1,959	2,588
Compensation and reparations revenue	114,530	166,355
Revenue from research contracts	13,143	5,342
Rental income	211,580	196,406
Others	31,787	45,552
	₩ 412,887	432,219

**(2) Details of others of other non-operating income for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Refund of claim for rectification	₩ 8,722	7,623
Adjustment of research project	4,148	4,090
Maintenance expenses on lease building	354	324
Training expenses	4,478	4,774
Deposit redemption	991	430
Reversal of expenses on litigation	893	219
Revenue on royalty fee	2,486	2,739
Reimbursement of insurance fee		11,797
Gains on guarantee contracts	2,796	4,523
Others	6,919	9,033
	₩ 31,787	45,552



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****37. Other Non-operating Income and Expense, Continued****(3) Other non-operating expense for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Compensation and indemnification expense	₩	16,959
Accretion expenses of other provisions	4,556	4,575
Depreciation expenses on investment properties	678	669
Depreciation expenses on idle assets	6,639	6,698
Other bad debt expense	4,585	18,473
Donations	114,094	34,134
Others	58,072	27,340
	₩ 188,624	108,848

**(4) Details of others of other non-operating expense for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Operating expenses related to the idle assets	₩ 459	779
Research grants	1,461	1,392
Supporting expenses on farming and fishing village	15,201	14,626
Operating expenses on fitness center	2,706	2,912
Expenses on adjustment of research and development grants		709
Forfeit of taxes and dues	4,582	1,105
Expenses on R&D supporting	690	146
Movement expense		3,191
Others	32,973	2,480
	₩ 58,072	27,340



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****38. Other Gains (Losses)****(1) Composition of other gains (losses) for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
<b>Other gains</b>		
Gains on disposal of property, plant and equipment	₩ 74,035	8,637,508
Gains on disposal of intangible assets		32
Reversal of impairment loss on intangible assets	3	275
Gains on foreign currency translation	15,311	13,784
Gains on foreign currency transaction	55,377	61,007
Gains on insurance proceeds		30
Others	187,792	162,128
<b>Other losses</b>		
Losses on disposal of property, plant and equipment	(42,715)	(73,073)
Losses on disposal of intangible assets	(158)	(16)
Impairment loss on property, plant and equipment		(30,344)
Impairment loss on intangible assets	(3,945)	(22)
Losses on foreign currency translation	(23,835)	(15,097)
Losses on foreign currency transaction	(72,058)	(75,615)
Others	(119,309)	(69,824)
	₩ 70,498	8,610,773

**(2) Details of others of other gains for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Gains on disposal of inventories	₩ 9,494	10,758
Gains on valuation of inventories	2	7
Gains on proxy collection of TV license fee	38,991	38,529
Gains on compensation of impaired electric poles	3,650	
Gains on compensation for infringement on contract	3,040	7,414
Gains on harbor facilities dues	2,957	5,943

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Gains on technical fees	1,271	1,258
Reversal of occupation development training fees	1,756	1,878
Gains on disposal of waste	4,222	2,880
Gains on insurance	3,786	11,865
Gains on litigation		600
Gains on tax rebate	5,226	1,661
Gains on other commission	4,639	2,177
Gains on research tasks	10	1,446
Gains on settlement and others	2,188	2,803
Gains on sales of greenhouse gas emissions rights	46	52
Others	106,514	72,857
	₩ 187,792	162,128

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****38. Other Gains (Losses), Continued****(3) Details of others of other losses for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Losses on valuation of inventories	₩ 2,683	1,318
Losses on disposal of inventories	3,092	13,469
Losses due to disaster	1,522	263
Losses on rounding adjustment of electric charge surtax	1,260	1,251
Losses on adjustments of levies	1,184	13,928
Forfeit of taxes and dues	4,582	190
Losses on litigation	2,581	488
Others	102,405	38,917
	₩ 119,309	69,824

**39. Finance Income****(1) Finance Income for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Interest income	₩ 241,778	241,585
Dividends income	9,446	14,069
Gains on disposal of financial assets	1,482	4
Gains on valuation of derivatives	293,830	610,582
Gains on transaction of derivatives	45,549	151,851
Gains on foreign currency translation	161,905	127,372
Gains on foreign currency transaction	37,553	37,377
Other finance income		148
	₩ 791,543	1,182,988

**(2) Interest income included in finance income for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Cash and cash equivalents	₩ 61,380	54,687
Available-for-sale financial assets		29
Held-to-maturity investments	97	99
Loans and receivables	25,106	28,586
Short-term financial instrument	45,763	46,921
Long-term financial instrument	7,195	10,492
Trade and other receivables	102,237	100,771
	₩ 241,778	241,585

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****40. Finance Expenses****(1) Finance expenses for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Interest expense	₩ 1,752,868	2,015,684
Losses on sale of financial assets	9	3,008
Impairment of available-for-sale financial assets	86,703	84,370
Losses on valuation of derivatives	5,762	17,051
Losses on transaction of derivatives	101,987	37,262
Losses on foreign currency translation	406,849	743,283
Losses on foreign currency transaction	57,889	113,723
Losses on repayment of financial liabilities	23,000	33
Other	2,020	1,043
	₩ 2,437,087	3,015,457

**(2) Interest expense included in finance expenses for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Trade and other payables	₩ 68,375	84,527
Short-term borrowings	6,969	14,627
Long-term borrowings	91,584	103,503
Debt securities	1,922,900	2,177,855
Other financial liabilities	482,428	538,680
	2,572,256	2,919,192
Less: Capitalized borrowing costs	(819,388)	(903,508)
	₩ 1,752,868	2,015,684

Capitalization rates for the years ended December 31, 2016 and 2015 are 2.29%~4.16% and 2.36%~4.25% respectively.



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****41. Income Taxes****(1) Income tax expense for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
<b>Current income tax expense</b>		
Payment of income tax	₩ 2,689,640	2,682,779
Adjustment due to changes in estimates related to prior years	231,113	(23,248)
Current income tax directly recognized in equity	30,059	37,768
	<b>2,950,812</b>	<b>2,697,299</b>
<b>Deferred income tax expense</b>		
Generation and realization of temporary differences	509,762	48,878
Changes of unrecognized tax losses, tax credit and temporary differences for prior periods	(86,845)	71,999
Changes in deferred tax on tax losses carryforwards		2,374,237
Tax credit carryforwards	(8,588)	47,000
	<b>414,329</b>	<b>2,542,114</b>
Income tax expense	₩ 3,365,141	5,239,413

**(2) Reconciliation between actual income tax expense and amount computed by applying the statutory tax rate of 24.2% to income before income taxes for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Income before income tax	₩ 10,513,468	18,655,786
Income tax expense computed at applicable tax rate of 24.2%	2,544,259	4,514,700

<b>Adjustments</b>		
Effect of applying gradual tax rate	(5,082)	(4,147)
Effect of non-taxable income	(29,554)	(8,047)
Effect of non-deductible expenses	22,258	17,734
Effects of tax credits and deduction	(194,731)	(103,435)
Recognition (reversal) of unrecognized deferred tax asset, net	(86,845)	71,999
Deferred income tax related to investments in subsidiaries and associates	862,956	784,793
Others, net	20,767	(10,936)
	589,769	747,961
Adjustment in respect of prior years due to change in estimate	231,113	(23,248)
<b>Income tax expense</b>	<b>₩ 3,365,141</b>	<b>5,239,413</b>
Effective tax rate	32.0%	28.1%

**(3) Income tax directly adjusted to shareholders equity (except for accumulated other comprehensive income (loss))**

**for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Dividends of hybrid securities	₩ 5,253	5,253
Gain on disposal of investments in subsidiaries	(7,006)	(14,144)
	₩ (1,753)	(8,891)

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

December 31, 2016

**41. Income Taxes, Continued**

(4) Income tax recognized as other comprehensive income (loss) for the years ended December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>	2016	2015
Income tax recognized as other comprehensive income (loss)		
Loss on valuation of available-for-sale financial assets	₩ (8,143)	(6,315)
Net change in the unrealized fair value of derivatives using cash flow hedge accounting, net of tax	(18,335)	7,253
Remeasurements of defined benefit obligations	49,986	42,913
Investments in associates	7,731	13,648
Others	573	(10,840)
	₩ 31,812	46,659

(5) Changes in deferred income tax assets (liabilities) recognized in the statements of financial position for the years ended December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>	Beginning balance	Amounts recognized in profit or loss	2016 Amount recognized in other comprehensive income (loss)	Amounts recognized directly in equity	Ending balance
Deferred income tax on temporary differences					

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Employee benefits	₩	407,342	36,003	49,986		493,331
Cash flow hedge		(29,013)	(6,235)	(18,335)		(53,583)
Investments in associates or subsidiaries		(6,449,998)	(717,072)	7,731	(7,006)	(7,166,345)
Property, plant and equipment		(5,495,786)	(31,532)			(5,527,318)
Finance lease		(272,430)	(73,001)			(345,431)
Intangible assets		9,420	(433)			8,987
Financial assets at fair value through profit or loss		(4)	(58)			(62)
Available-for-sale financial assets		(49,199)	(11,005)	(8,143)		(68,347)
Deferred revenue		215,361	(1,502)			213,859
Provisions		3,372,423	210,948			3,583,371
Doubtful receivables		1,405	1,291			2,696
Other finance liabilities		26,298	(1,302)		5,253	30,249
Gains on foreign exchange translation		128,714	10,224			138,938
Allowance for doubtful accounts		18,976	(1,724)			17,252
Accrued income		(11,231)	5,864			(5,367)
Special deduction for property, plant and equipment		(194,347)	38			(194,309)
Reserve for research and human development		(20,688)	7,805			(12,883)
Others		576,585	118,712	573		695,870
		(7,766,172)	(452,979)	31,812	(1,753)	(8,189,092)
<b>Deferred income tax on unused tax losses and tax credit</b>						
Tax losses		(3)	3			
Tax credit		27,115	8,588			35,703
		27,112	8,591			35,703
	₩	(7,739,060)	(444,388)	31,812	(1,753)	(8,153,389)

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****41. Income Taxes, Continued**

(5) Changes in deferred income tax assets (liabilities) recognized in the statements of financial position for the years ended December 31, 2016 and 2015 are as follows, continued:

*In millions of won*

	Beginning balance	Amounts recognized profit or loss	2015 Amount recognized in other comprehensive income or loss	Amounts recognized directly in equity	Ending balance
<b>Deferred income tax on temporary differences</b>					
Employee benefits	₩ 352,934	11,495	42,913		407,342
Cash flow hedge	51,354	(87,620)	7,253		(29,013)
Investments in associates or subsidiaries	(5,769,627)	(669,035)	2,808	(14,144)	(6,449,998)
Property, plant and equipment	(5,979,863)	484,077			(5,495,786)
Finance lease	(197,097)	(75,333)			(272,430)
Intangible assets	12,309	(2,889)			9,420
Financial assets at fair value through profit or loss	2,840	(2,844)			(4)
Available-for-sale financial assets	(41,836)	(1,048)	(6,315)		(49,199)
Deferred revenue	230,644	(15,283)			215,361
Provisions	3,459,775	(87,352)			3,372,423
Doubtful receivables	1,356	49			1,405
Other finance liabilities	23,237	(2,192)		5,253	26,298
Gains on foreign exchange translation	53,794	74,920			128,714
Allowance for doubtful accounts	15,452	3,524			18,976
Accrued income	(3,245)	(7,986)			(11,231)
Special deduction for property, plant and equipment	(194,674)	327			(194,347)
Impairment of non-current assets	86,720	(86,720)			

Reserve for research and human development	(35,499)	14,811			(20,688)
Others	460,019	116,566			576,585
	(7,471,407)	(332,533)	46,659	(8,891)	(7,766,172)
<b>Deferred income tax on unused tax losses and tax credit</b>					
Tax losses	2,176,175	(2,176,178)			(3)
Tax credit	98,286	(71,171)			27,115
	2,274,461	(2,247,349)			27,112
	₩ (5,196,946)	(2,579,882)	46,659	(8,891)	(7,739,060)

- (6) **Deferred income tax assets (liabilities) recognized in the statements of financial position as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Deferred income tax assets	₩ 795,131	623,623
Deferred income tax liabilities	(8,948,520)	(8,362,683)
	₩ (8,153,389)	(7,739,060)

- (7) **Details of deductible temporary differences, tax losses and unused tax credits not recognized in the deferred income tax assets as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Deductible temporary differences	₩ 426,718	441,704

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****42. Assets Held-for-Sale**

Assets held-for-sale as of December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Land (*1)	₩ 2,907	2,907
Building (*1)	20,366	20,366
Investments in associates (*2, 3)	42,569	56,374
	₩ 65,842	79,647

(\*1) The board of directors of KEPCO Engineering & Construction Company, Inc., a subsidiary of the Company, determined to dispose the office building in Yongin as part of the government's plan to relocate state-run companies for balanced national development and moved the head office to Kimchun, Kyung-sangbukdo, in 2015. As the Company believes the book value of Yongin office will be recovered by a disposal transaction rather than continuous operation, it reclassified buildings, land and structures as assets held-for-sale.

(\*2) Korea Western Power Co., Ltd., a subsidiary of the Company, plans to dispose certain portion of its investment in Dongducheon Dream Power Co., Ltd. and reclassified the relevant book value to non-current assets held-for-sale.

(\*3) Korea Hydro & Nuclear Power Co., Ltd., a subsidiary of the Company, reclassified its investments in Yeongwol Energy Station Co., Ltd. to assets held-for-sale according to the shareholders' agreement. The reclassified amount is determined as using the lower amount of either the book value or net fair value.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****43. Expenses Classified by Nature**

Expenses classified by nature for the years ended December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>		<b>2016</b>	
	<b>Selling and administrative expenses</b>	<b>Cost of sales</b>	<b>Total</b>
Raw materials used	₩	13,470,586	13,470,586
Salaries	734,930	3,425,712	4,160,642
Retirement benefit expense	72,812	374,826	447,638
Welfare and benefit expense	162,243	507,691	669,934
Insurance expense	11,513	79,987	91,500
Depreciation	169,431	8,704,525	8,873,956
Amortization of intangible assets	35,171	44,544	79,715
Bad debt expense	38,719		38,719
Commission	605,879	423,179	1,029,058
Advertising expense	34,658	9,693	44,351
Training expense	6,314	13,347	19,661
Vehicle maintenance expense	10,390	7,016	17,406
Publishing expense	3,643	4,615	8,258
Business promotion expense	3,477	4,836	8,313
Rent expense	40,020	133,670	173,690
Telecommunication expense	25,448	75,925	101,373
Transportation expense	596	5,153	5,749
Taxes and dues	46,531	464,962	511,493
Expendable supplies expense	6,834	34,668	41,502
Water, light and heating expense	9,720	25,820	35,540
Repairs and maintenance expense	75,122	1,896,656	1,971,778
Ordinary development expense	188,063	517,441	705,504
Travel expense	16,115	63,611	79,726
Clothing expense	8,273	5,363	13,636
Survey and analysis expense	666	3,209	3,875
Membership fee	1,132	8,714	9,846
Power purchase		10,755,739	10,755,739
Others	331,532	4,488,065	4,819,597
	₩ 2,639,232	45,549,553	48,188,785





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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****43. Expenses Classified by Nature, Continued**

Expenses classified by nature for the years ended December 31, 2016 and 2015 are as follows, continued:

*In millions of won*

	Selling and administrative expenses	2015 Cost of sales	Total
Raw materials used	₩	14,626,933	14,626,933
Salaries	655,432	2,962,476	3,617,908
Retirement benefit expense	61,903	320,700	382,603
Welfare and benefit expense	119,866	426,186	546,052
Insurance expense	10,636	83,910	94,546
Depreciation	102,867	8,158,884	8,261,751
Amortization of intangible assets	40,465	31,801	72,266
Bad debt expense	290		290
Commission	562,171	353,703	915,874
Advertising expense	30,085	8,498	38,583
Training expense	4,988	11,186	16,174
Vehicle maintenance expense	10,529	8,323	18,852
Publishing expense	3,124	3,981	7,105
Business promotion expense	3,338	4,312	7,650
Rent expense	44,905	142,054	186,959
Telecommunication expense	22,678	73,180	95,858
Transportation expense	753	5,336	6,089
Taxes and dues	55,970	397,161	453,131
Expendable supplies expense	7,272	29,874	37,146
Water, light and heating expense	9,558	26,870	36,428
Repairs and maintenance expense	74,330	1,771,760	1,846,090
Ordinary development expense	178,472	432,748	611,220
Travel expense	14,388	52,910	67,298
Clothing expense	5,751	4,135	9,886
Survey and analysis expense	590	3,071	3,661
Membership fee	1,040	6,401	7,441
Power purchase		11,428,027	11,428,027
Others	131,860	4,083,309	4,215,169

₩ 2,153,261	45,457,729	47,610,990
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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****44. Earnings Per Share****(1) Basic earnings per share for the years ended December 31, 2016 and 2015 are as follows:**

<i>In won</i>			
Type		2016	2015
Basic earnings per share	₩	10,980	20,701

**(2) Net profit for the period and weighted average number of common shares used in the calculation of basic earnings per share for the years ended December 31, 2016 and 2015 are as follows**

<i>In millions of won except number of shares</i>			
Type		2016	2015
Controlling interest in net income	₩	7,048,581	13,289,127
Profit used in the calculation of total basic earnings per share		7,048,581	13,289,127
Weighted average number of common shares		641,964,077	641,964,077

**(3) Weighted average number of common shares used in the calculation of basic earnings per share for the years ended December 31, 2016 and 2015 are as follows:**

<i>In number of shares</i>			
Type		2016	2015
The number of common shares issued at beginning of the year		641,964,077	641,964,077
Weighted average number of common shares		641,964,077	641,964,077

**(4) There are no potential dilutive instruments and diluted earnings per share are same as basic earnings per share for the years ended December 31, 2016 and 2015.**



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****45. 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, 2016 and 2015 are as follows:

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Total borrowings and debt securities	₩ 53,639,205	58,753,499
Cash and cash equivalents	3,051,353	3,783,065
Net borrowings and debt securities	50,587,852	54,970,434
Total shareholder's equity	73,050,545	67,942,475
Debt to equity ratio	69.25%	80.91%

**(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 analyze exposures by degree and magnitude of risks. The Company uses derivative financial instruments to hedge certain risk exposures. The Company's overall financial risk management strategy remains unchanged from that of the prior year.

**(i) 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 sales activities, securities and derivatives. 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.

#### 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 customers. 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 trade 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.

#### Impairment and 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 past experience.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****45. Risk Management, Continued****(2) Financial risk management, continued**

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, 2016 and 2015 are as follows:

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
Cash and cash equivalents	₩ 3,051,353	3,783,065
Derivative assets (trading)	367,477	255,008
Available-for-sale financial assets	1,014,732	584,479
Held-to-maturity investments	3,244	3,623
Loans and receivables	834,207	735,057
Long-term/short-term financial instruments	2,695,926	5,890,866
Derivative assets (using hedge accounting)	413,897	362,142
Trade and other receivables	9,692,391	9,271,967
Financial guarantee contracts (*)	1,396,152	271,010

(\*) Maximum exposure associated with the financial guarantee contracts is the maximum amounts of the obligation. As of the reporting date, there are no financial assets and non-financial assets that were acquired through the exercise of the right of collateralized assets and reinforcement of credit arrangement.

**(ii) Market risk**

Market risk is the risk that the Company's fair values of the financial instruments or future cash flows are affected by the changes in the market. Market risk consists of interest rate risk, currency risk and other price risk.



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****45. Risk Management, Continued****(2) Financial risk management, continued**

## (iii) Sensitivity analysis

Significant assets and liabilities with uncertainties in underlying assumptions

## Defined benefit obligation

A sensitivity analysis of defined benefit obligation assuming a 1% increase and decrease movements in the actuarial valuation assumptions as of December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>	Type	Accounts	2016		2015	
			1% Increase	1% Decrease	1% Increase	1% Decrease
Future salary increases	Increase (decrease) in defined benefit obligation	₩	344,874	(304,685)	293,205	(271,758)
Discount rate	Increase (decrease) in defined benefit obligation		(305,031)	371,689	(267,648)	315,870

Changes of employee benefits assuming a 1% increase and decrease movements in discount rate on plan asset for the years ended December 31, 2016 and 2015 are ₩9,096 million and ₩7,265 million, respectively.

## Provisions

Changes in provisions due to movements in underlying assumptions as of December 31, 2016 and 2015 are as follows:

Type	Accounts	2016	2015
PCBs	Inflation rate	1.29%	2.65%
	Discount rate	2.77%	3.21%
Nuclear plants	Inflation rate	1.40%	1.40%
	Discount rate	3.55%	3.55%

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Spent fuel	Inflation rate	2.93%	2.93%
	Discount rate	4.49%	4.49%

A sensitivity analysis of provisions assuming a 0.1% increase and decrease movements in the underlying assumptions as of December 31, 2016 and 2015 are as follows:

*In millions of won*

Type	Accounts	2016		2015	
		0.1% Increase	0.1% Decrease	0.1% Increase	0.1% Decrease
Discount rate	PCBs	₩ (817)	822	(875)	881
	Nuclear plants	(209,277)	215,139	(201,318)	206,720
	Spent fuel	(52,353)	54,387	(52,390)	54,425
Inflation rate	PCBs	834	(830)	885	(881)
	Nuclear plants	240,115	(233,553)	220,720	(215,086)
	Spent fuel	55,173	(53,182)	55,212	(53,219)

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****45. Risk Management, Continued****(2) Financial risk management, continued**

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 as of December 31, 2016 and 2015 are as follows:

<i>In thousands of foreign currencies</i>	Assets		Liabilities	
	2016	2015	2016	2015
<b>Type</b>				
AED	7,479	1,481	1,534	1,705
AUD	187	158	632,613	595,284
BDT	49,110	43,332	833	889
BWP	4,296	301	3,222	
CAD				858
CHF			400,308	400,029
CNY				26,140
EUR	17,585	6,141	14,111	33,552
GBP	3		110	99
IDR	52,568			
INR	1,059,092	972,175	161,631	206,159
JOD	1,746	2,972	5	
JPY	520,746	1,425,163	20,442,504	20,325,211
KZT	12,157	47,177		
MGA	3,408,579	2,768,360	150,430	151,729
MXN		7,704		
PHP	415,818	489,309	136,700	77,337
PKR	274,090	211,212	5,051	12,928
SAR	1,149	1,083		
TWD				30

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USD	1,319,524	1,260,094	9,445,567	9,331,854
UYU	1,307		586	
ZAR	386	238	75	

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, 2016 and 2015 are as follows:

<i>In millions of won</i> Type	2016		2015	
	10% Increase	10% Decrease	10% Increase	10% Decrease
Increase (decrease) of income before income tax	₩ (1,101,372)	1,101,372	(1,063,285)	1,063,285
Increase (decrease) of shareholder's equity (*)	(1,101,372)	1,101,372	(1,063,285)	1,063,285

(\*) The effect on the shareholders' equity excluding the impact of income taxes.

The sensitivity analysis above is conducted for monetary assets and liabilities denominated in foreign currencies other than functional currency, without consideration of hedge effect of related derivatives, as of December 31, 2016 and 2015.

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.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****45. Risk Management, Continued****(2) Financial risk management, continued**

## 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 borrowings and debt securities with floating interest rates as of December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>			
<b>Type</b>		<b>2016</b>	<b>2015</b>
Short-term borrowings	₩	289,322	41,608
Long-term borrowings		1,459,969	1,977,745
Debt securities		1,518,500	2,082,000
	₩	3,267,791	4,101,353

A sensitivity analysis on the Company's long-term borrowings and debt securities assuming a 1% increase and decrease in interest rates, without consideration of hedge effect of related derivatives for the years ended December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>		<b>2016</b>		<b>2015</b>	
<b>Type</b>		<b>1% Increase</b>	<b>1% Decrease</b>	<b>1% Increase</b>	<b>1% Decrease</b>
Increase (decrease) of profit before income tax	₩	(32,678)	32,678	(41,014)	41,014
Increase (decrease) of shareholder's equity (*)		(32,678)	32,678	(41,014)	41,014

(\*) The effect on the shareholders' equity excluding the impact of income taxes.

To manage its interest rate risks, the Company enters into certain interest swap agreements or maintains an appropriate mix of fixed and floating rate borrowings.

#### 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 for the years ended December 31, 2016 and 2015 are as follows:

<i>In millions of won</i> <b>Type</b>	<b>2016</b>		<b>2015</b>	
	<b>1% Increase</b>	<b>1% Decrease</b>	<b>1% Increase</b>	<b>1% Decrease</b>
Increase (decrease) of profit before income tax	₩ 543,045	(543,045)	532,295	(532,295)
Increase (decrease) of shareholder's equity (*)	543,045	(543,045)	532,295	(532,295)

(\*) The effect on the shareholders' equity excluding the impact of income taxes.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****45. Risk Management, Continued****(2) Financial risk management, continued**

## (iv) 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 continuously monitoring forecasted 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, the Company has the ability to utilize excess cash or long-term borrowings for major construction investments.

The following table shows the details of maturities of non-derivative financial liabilities as of December 31, 2016 and 2015. This table, based on the undiscounted cash flows of the non-derivative financial liabilities including estimated interests, has been prepared based on the respective liabilities' earliest maturity date.

*In millions of won*

Type	2016				Total
	Less than 1 year	1~2 Years	2~5 Years	More than 5 years	
Borrowings and debt securities	₩ 10,613,185	9,786,209	19,353,498	24,461,835	64,214,727
Finance lease liabilities	175,512	174,534	229,495	152,247	731,788
Trade and other payables	5,464,234	307,222	660,426	2,170,525	8,602,407
Financial guarantee contracts (*)	249,200	40,617	865,842	240,493	1,396,152
	₩ 16,502,131	10,308,582	21,109,261	27,025,100	74,945,074

*In millions of won*

Type	2015				Total
	Less than 1 year	1~2 Years	2~5 Years	More than 5 years	
Borrowings and debt securities	₩ 9,862,441	11,252,946	23,642,523	28,566,566	73,324,476
Finance lease liabilities	182,072	175,512	349,953	206,323	913,860

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Trade and other payables	4,618,812	314,361	617,120	2,244,445	7,794,738
Financial guarantee contracts (*)	168,885	62,116	40,009		271,010
	<b>₩ 14,832,210</b>	<b>11,804,935</b>	<b>24,649,605</b>	<b>31,017,334</b>	<b>82,304,084</b>

(\*) This represents the total guarantee amounts associated with the financial guarantee contracts. Financial guarantee liabilities which are recognized as of December 31, 2016 and 2015 are ₩29,665 million and ₩4,288 million, respectively.



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****45. Risk Management, Continued****(2) Financial risk management, continued**

The expected maturities for non-derivative financial assets as of December 31, 2016 and 2015 in detail are as follows:

*In millions of won*

Type	2016				Total
	Less than 1 year	1~5 Years	More than 5 years	Other (*)	
Cash and cash equivalents	₩ 3,051,353				3,051,353
Available-for-sale financial assets				1,014,732	1,014,732
Held-to-maturity investments	114	3,126	4		3,244
Loans and receivables	198,133	233,564	439,666	5,591	876,954
Long-term/short-term financial instruments	2,281,460	200,001	214,122	343	2,695,926
Trade and other receivables	7,790,953	915,679	919,901	74,199	9,700,732
	₩ 13,322,013	1,352,370	1,573,693	1,094,865	17,342,941

*In millions of won*

Type	2015				Total
	Less than 1 year	1~5 Years	More than 5 years	Other (*)	
Cash and cash equivalents	₩ 3,783,065				3,783,065
Available-for-sale financial assets				584,479	584,479
Held-to-maturity investments	381	3,242			3,623
Loans and receivables	106,013	268,820	397,976	11,330	784,139
Long-term/short-term financial instruments	5,132,829	5,000	752,703	334	5,890,866
Trade and other receivables	7,476,745	765,979	958,968	79,202	9,280,894
	₩ 16,499,033	1,043,041	2,109,647	675,345	20,327,066

(\* ) The maturities cannot be presently determined.

Derivative liabilities classified by maturity periods which from reporting date to maturity date of contract as of December 31, 2016 and 2015 are as follows:

*In millions of won*

Type	2016				Total
	Less than 1 year	1~2 Years	2~5 Years	More than 5 years	
Gross settlement					
- Trading	₩ (3,081)	(24,044)		(2,799)	(29,924)
- Hedging	(2,645)	(2,645)	(56,484)	(56,575)	(118,349)
	₩ (5,726)	(26,689)	(56,484)	(59,374)	(148,273)

*In millions of won*

Type	2015				Total
	Less than 1 year	1~2 Years	2~5 Years	More than 5 years	
Gross settlement					
- Trading	₩ (9,552)	(4,627)	(47,971)		(62,150)
- Hedging	1,260	2,032	(44,233)	(62,534)	(103,475)
	₩ (8,292)	(2,595)	(92,204)	(62,534)	(165,625)

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****45. Risk Management, Continued****(3) Fair value risk**

The fair value of the Company's actively-traded financial instruments (i.e. short-term financial assets held for trading, available-for-sale financial assets, 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.

For trade 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 cash flows based on the effective interest method.

- (i) Fair value and book value of financial assets and liabilities as of December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>	2016		2015	
	Book value	Fair value	Book value	Fair value
<b>Type</b>				
<b>Assets recognized at fair value</b>				
Available-for-sale financial assets (*1)	₩ 1,014,732	1,014,732	584,479	584,479
Derivative assets (trading)	367,477	367,477	255,008	255,008
Derivative assets (using hedge accounting)	413,897	413,897	362,142	362,142
Long-term financial instruments	414,466	414,466	758,037	758,037
Short-term financial instruments	2,281,460	2,281,460	5,132,829	5,132,829
	4,492,032	4,492,032	7,092,495	7,092,495

**Assets carried at amortized cost**

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Held-to-maturity investments	3,244	3,244	3,623	3,623
Loans and receivables	834,207	834,207	735,057	735,057
Trade and other receivables	9,692,391	9,692,391	9,271,967	9,271,967
Cash and cash equivalents	3,051,353	3,051,353	3,783,065	3,783,065
	13,581,195	13,581,195	13,793,712	13,793,712

**Liabilities recognized at fair value**

Derivative liabilities (trading)	21,529	21,529	49,011	49,011
Derivative liabilities (using hedge accounting)	117,157	117,157	117,499	117,499
	138,686	138,686	166,510	166,510

**Liabilities carried at amortized cost**

Secured borrowings	744,565	744,565	641,363	641,363
Unsecured bond	50,749,793	54,455,659	55,677,213	59,619,941
Finance lease liabilities	541,179	541,179	659,394	659,394
Unsecured borrowings	2,089,885	2,099,574	2,407,690	2,427,847
Trade and other payables (*2)	8,602,407	8,602,407	7,794,738	7,794,738
Bank overdraft	54,962	54,962	27,233	27,233
	₩ 62,782,791	66,498,346	67,207,631	71,170,516

(\*1) Book values of equity securities held by the Company that were measured at cost as of December 31, 2016 and 2015 are ₩138,557 million and ₩207,508 million, respectively, as a quoted market price does not exist in an active market and its fair value cannot be measured reliably.

(\*2) Excludes finance lease liabilities.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****45. Risk Management, Continued****(3) Fair value risk, continued**

(ii) Interest rates used for determining fair value

The interest rates used to discount estimated cash flows, when applicable, are based on the government yield curve at the reporting date plus an adequate credit spread.

The discount rate used for calculating fair value as of December 31, 2016 and 2015 are as follows:

Type	2016	2015
Derivatives	0.02% ~ 4.16%	0.28% ~ 4.16%
Borrowings and debt securities	0.02% ~ 4.38%	0.15% ~ 5.80%
Finance lease	9.00% ~ 10.83%	9.00% ~ 10.83%

(iii) 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, 2016 and 2015 are as follows:

<i>In millions of won</i> Type	2016			Total
	Level 1	Level 2	Level 3	
<b>Financial assets at fair value</b>				
Available-for-sale financial assets	₩ 268,171	437,015	269,461	974,647
Derivative assets		770,851	10,523	781,374

	268,171	1,207,866	279,984	1,756,021
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**Financial liabilities at fair value**

Derivative liabilities		138,686		138,686
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*In millions of won***Type****2015****Level 1****Level 2****Level 3****Total****Financial assets at fair value**

Available-for-sale financial assets	₩ 196,579		180,390	376,969
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Derivative assets		617,150		617,150
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	196,579	617,150	180,390	994,119
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**Financial liabilities at fair value**

Derivative liabilities		166,510		166,510
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The fair value of available-for-sale financial assets publicly traded is measured at the closing bid price quoted at the end of the reporting period. Meanwhile, the fair value of unquoted available-for-sale financial assets is calculated using the valuation results from an external pricing service in which weighted average borrowing rates of interest of evaluated companies are used as a discount rate. The fair value of derivatives is measured using valuation model which is determined at the present value of estimated future cash flows discounted at current market interest rate.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****45. Risk Management, Continued****(3) Fair value risk, continued**

Changes of financial assets and liabilities which are classified as level 3 for the years ended December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>	<b>2016</b>				<b>Foreign currency translation</b>	<b>Ending balance</b>
	<b>Beginning balance</b>	<b>Reclassified Acquisition category</b>	<b>Valuation</b>	<b>Disposal</b>		
<b>Financial assets at fair value</b>						
Available-for-sale financial assets						
Unlisted securities	₩ 180,390	98,472	(9,401)			269,461
<i>In millions of won</i>	<b>2015</b>				<b>Foreign currency translation</b>	<b>Ending balance</b>
	<b>Beginning balance</b>	<b>Reclassified Acquisition category</b>	<b>Valuation</b>	<b>Disposal</b>		
<b>Financial assets at fair value</b>						
Available-for-sale financial assets						
Unlisted securities	₩ 168,627		11,763			180,390

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****46. Service Concession Arrangements****(1) Gas Complex Thermal Power Plant at Ilijan, Philippines (BOT)****(i) Significant terms and concession period of the arrangement**

The Company has entered into a contract with National Power Corporation (the NPC), based in the Republic of the Philippines whereby the Company can collect the electricity rates which are composed of fixed costs and variable costs during the concession period after building, rehabilitating, and operating the power plant.

**(ii) Rights and classification of the arrangement**

The Company has the rights to use and own the power plant during the concession period from 2002 to 2022. At the end of the concession period, the Company has an obligation to transfer its ownership of the power plant to NPC.

**(iii) The Company's expected future collections of service concession arrangements as of December 31, 2016 are as follows:**

<i>In millions of won</i>	
<b>Type</b>	<b>Amounts</b>
Less than 1 year	₩ 126,233
1~ 2 years	126,233
2~ 3 years	126,233
Over 3 years	305,062
	₩ 683,761

**(2) Hydroelectric Power Generation at Semangka, Indonesia (BOT)****(i) Significant terms and concession period of the arrangement**



The Company has entered into a contract with PT. Perusahaan Listrik Negara (the PLN ) whereby the Company provides electricity generated and charge tariff rates designed to recover capital cost, fixed O&M cost, water usage cost, variable O&M cost and special facilities cost during the concession period after building, rehabilitating, and operating the power plant for approximately 30 years (2017~2047) subsequent to the completion of plant construction.

(ii) Rights and classification of the arrangement

The Company has the rights to use and own the power plant during the concession period from 2017 to 2047. At the end of the concession period, PNL has an option to take over the ownership of the power plant from the Company.

(iii) The Company's expected future collections of service concession arrangements as of December 31, 2016 are as follows:

<i>In millions of won</i>	
<b>Type</b>	<b>Amounts</b>
Less than 1 year	₩ 9,210
1~ 2 years	30,739
2~ 3 years	30,051
Over 3 years	683,233
	<b>₩ 753,233</b>

(iv) Accumulated contract costs and profits related to the Company's contract in process as of December 31, 2016 were ₩113,362 million and ₩7,133 million, respectively. There are no amount due from customers and advance receipts in progress.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****47. Related Parties****(1) Related parties of the Company as of December 31, 2016 are as follows:**

<b>Type</b>	<b>Related party</b>
Parent	Republic of Korea government
Subsidiaries (87 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., KEPCO Plant Service & Engineering Co., Ltd., KEPCO Nuclear Fuel Co., Ltd., KEPCO KDN Co., Ltd., Garolim Tidal Power Plant Co., Ltd., Gyeonggi Green Energy Co., Ltd., Korea Offshore Wind Power Co., Ltd., KOSEP Material Co., Ltd., KEPCO International HongKong Ltd., KEPCO International Philippines Inc., KEPCO Philippines Corporation, KEPCO Ilijan Corporation, KEPCO Gansu International Ltd., KEPCO Philippines Holdings Inc., KEPCO Lebanon SARL, KEPCO Neimenggu International Ltd., KEPCO Australia Pty., Ltd., KEPCO Shanxi International Ltd., KOMIPO Global Pte Ltd., KOSEP Australia Pty., Ltd., KOMIPO Australia Pty., Ltd., KOWEPO Australia Pty., Ltd., KOMIPO Global Pte Ltd., KOSPO Australia Pty., Ltd., KEPCO Canada Energy Ltd., KEPCO Netherlands B.V., KOREA Imouraren Uranium Investment Corp., KEPCO Middle East Holding Company, Qatrana Electric Power Company, Korea Electric Power Nigeria Ltd., KOWEPO International Corporation, KOSPO Jordan LLC, Korea Waterbury Uranium Limited Partnership, PT. Cirebon Power Service, EWP America Inc., KHNP Canada Energy, Ltd., KEPCO Bylong Australia Pty., Ltd., KNF Canada Energy Limited, KEPCO Holdings de Mexico, KST Electric Power Company, KEPCO Energy Service Company, KEPCO Netherlands S3 B.V., PT. KOMIPO Pembangkitan Jawa Bali, PT KEPCO Resource Indonesia, EWP Barbados 1 SRL, PT. Tanggamus Electric Power, KOMIPO America Inc., KOSEP USA, INC., PT. EWP Indonesia, KEPCO Netherlands J3 B.V., Global One Pioneer B.V., Global Energy Pioneer B.V., Mira Power Limited, EWP Philippines Corporation, KEPCO Singapore Holdings Pte., Ltd., KOWEPO India Private Limited, KEPCO KPS Philippines Corp., KOSPO Chile SpA, PT. KOWEPO Sumsel Operation And Maintenance Services, Commerce and Industry Energy Co., Ltd., Gyeongju Wind Power Co., Ltd., California Power Holdings, LLC, DG Fairhaven Power, LLC, DG Whitefield, LLC, EWP Renewable Co., EWPRC Biomass Holdings, LLC, Springfield Power, LLC, HeeMang Sunlight Power Co., Ltd., Fujeij Wind Power Company, KOSPO Youngnam Power Co., Ltd., Global One Carbon Private Equity Investment Trust 2., Chitose Solar Power Plant LLC., Solar School Plant Co., Ltd., KEPCO Energy Solution Co. Ltd., KOSPO Power Services Limitada, KOEN Bylong Pty., Ltd., KOWEPO Bylong Pty., Ltd., KOSPO Bylong Pty., Ltd., EWP Bylong Pty., Ltd., KOWEPO Lao International, KOMIPO Bylong Pty Ltd., Energy New Industry Specialized Investment Private Investment Trust

Associates  
(57 associates)

Dongducheon Dream Power Co., Ltd., Korea Gas Corporation, SE Green Energy Co., Ltd., Daegu Photovoltaic Co., Ltd., Jeongam Wind Power Co., Ltd., Korea Power Engineering Service Co., Ltd., Yeongwol Energy Station Co., Ltd., KS Solar Co., Ltd., Heang Bok Do Si Photovoltaic Power Co., Ltd., Korea Electric Power Industrial Development Co., Ltd., DS POWER Co., Ltd., Goseong Green Energy Co., Ltd., Gangneung Eco Power Co., Ltd., Shin Pyeongtaek Power Co., Ltd., Naepo Green Energy Co., Ltd., Noeul Green Energy Co., Ltd., YTN Co., Ltd., Cheongna Energy Co., Ltd., Samcheok Eco Materials Co., Ltd., Gangwon Wind Power Co., Ltd., Hyundai Green Power Co., Ltd., Korea Power Exchange, AMEC Partners Korea Ltd., Hyundai Energy Co., Ltd., Ecollite Co., Ltd., Taebaek Wind Power Co., Ltd., Taebaek Guinemi Wind Power Co., Ltd. (formerly, Muju Wind Power Co., Ltd.), Pyeongchang Wind Power Co., Ltd., Daeryun Power Co., Ltd., Changjuk Wind Power Co., Ltd., KNH Solar Co., Ltd., S-Power Co., Ltd., Hadong Mineral Fiber Co., Ltd., Green Biomass Co., Ltd., SPC Power Corporation, Gemeng International Energy Co., Ltd., PT. Cirebon Electric Power, KNOC Nigerian East Oil Co., Ltd., KNOC Nigerian West Oil Co., Ltd., PT Wampu Electric Power, PT. Bayan Resources TBK, Nepal Water & Energy Development Company Private Limited, Pioneer Gas Power Limited, Eurasia Energy Holdings, Xe-Pian Xe-Namnoy Power Co., Ltd., PT. Mutiara Jawa, Jinhuvish Power Generation Pvt. Ltd., Busan Green Energy Co., Ltd., Jungbu Bio Energy Co., Ltd., Korea Electric Vehicle Charge Service, Ulleungdo Natural Energy Co., Ltd., Korea Nuclear Partners Co., Ltd., Tamra Offshore Wind Power Co., Ltd., Korea Electric Power Corporation Fund, Energy Infra Asset Management Co., Ltd., Daegu clean Energy Co., Ltd., YaksuESS Co.,Ltd

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****47. Related Parties, Continued****(1) Related parties of the Company as of December 31, 2016 are as follows, continued:**

<b>Type</b>	<b>Related party</b>
Joint ventures (41 joint ventures)	Daegu Green Power Co., Ltd., KEPCO SPC Power Corporation, Daejung Offshore Wind Power Co., Ltd., KAPES, Inc. (formerly, KEPCO-ALSTOM Power Electronics Systems, Inc.), Dangjin Eco Power Co., Ltd., Honam Wind Power Co., Ltd., Seokmun Energy Co., Ltd., Incheon New Power Co., Ltd., Chun-cheon Energy Co., Ltd., Yeonggwangbaeksu Wind Power Co., Ltd., KW Nuclear Components Co., Ltd., KEPCO-Uhde Inc., GS Donghae Electric Power Co., Ltd., Busan Shinho Solar Power Co., Ltd., Global Trade Of Power System Co., Ltd., Expressway Solar-light Power Generation Co., Ltd., Gansu Datang Yumen Wind Power Company Ltd., Datang Chifeng Renewable Power Co., Ltd., Rabigh Electricity Company, Eco Biomass Energy Sdn. Bhd., Rabigh Operation & Maintenance Company, Datang KEPCO Chaoyang Renewable Power Co., Ltd., Shuweihat Asia Power Investment B.V., Shuweihat Asia Operation & Maintenance Company, Waterbury Lake Uranium L.P., ASM-BG Investicii AD, RES Technology AD, Jamaica Public Service Company Limited, KV Holdings, Inc., Datang Chaoyang Renewable Power Co., Ltd., KODE NOVUS I LLC, KODE NOVUS II LLC, Amman Asia Electric Power Company, Kelar S.A, PT. Tanjung Power Indonesia, Nghi Son 2 Power Ltd., Canada Korea Uranium Limited Partnership, Daehan Wind Power PSC, MOMENTUM, Barakah One Company, Nawah Energy Company
Others	Korea Development Bank

- (2) Transactions between the Company and its subsidiaries are eliminated during the consolidation and are not disclosed in notes.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

December 31, 2016

**47. Related Parties, Continued**

(3) Related party transactions for the years ended December 31, 2016 and 2015 are as follows:

&lt;Sales and Others&gt;

<i>In millions of won</i>		Sales and others	
Company name	Transaction type	2016	2015
<b>&lt;Associates&gt;</b>			
Dongducheon Dream Power Co., Ltd.	Electricity sales	₩ 15,221	14,811
Korea Gas Corporation	Electricity sales	89,030	90,480
Jeongam Wind Power Co., Ltd.	Electricity sales	6	8
Korea Power Engineering Service Co., Ltd.	Service	1,455	1,743
Yeongwol Energy Station Co., Ltd.	Service	858	814
KS Solar Co., Ltd.	Electricity sales	20	21
Heang Bok Do Si Photovoltaic Power Co., Ltd.	Service	2	1
Korea Electric Power Industrial Development Co., Ltd.	Service	10,723	12,361
DS POWER Co., Ltd.	Service	35,133	106,183
Goseong Green Energy Co., Ltd.	Electricity sales	9,195	9,306
Gangneung Eco Power Co., Ltd.	Service	5,223	9,761
Shin Pyeongtaek Power Co., Ltd.	Electricity sales	3,579	11,344
Naepo Green Energy Co., Ltd.	Electricity sales	104	66
Noeul Green Energy Co., Ltd.	Electricity sales	177	45
Samcheok Eco Materials Co., Ltd.	Electricity sales	64	
YTN Co., Ltd.	Electricity sales	1,785	1,753
Busan Green Energy Co., Ltd.	Service	133	1
Jungbu Bio Energy Co., Ltd.	Electricity sales	6	
Korea Electric Vehicle Charge Service	Service	89	2
Ulleungdo Natural Energy Co., Ltd.	Service	691	229
Tamra Offshore Wind Power Co., Ltd.,	Electricity sales	12	
Cheongna Energy Co., Ltd.	Service	6,831	21,081
Gangwon Wind Power Co., Ltd.	Electricity sales	1,273	1,046
Hyundai Green Power Co., Ltd.	Design service	14,835	15,401
Korea Power Exchange	Service	7,141	4,272
Hyundai Energy Co., Ltd.	Service	24,719	25,402
Taebaek Wind Power Co., Ltd.	Service	796	872

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Pyeongchang Wind Power Co., Ltd.	Design service	497	72
Daeryun Power Co., Ltd.	Electricity sales	1,516	1,731
Changjuk Wind Power Co., Ltd.	Electricity sales	863	754
KNH Solar Co., Ltd.	Electricity sales	17	17
S-Power Co., Ltd.	Service	5,994	7,278
Busan Solar Co., Ltd.	Electricity sales	8	16
Green Biomass Co., Ltd.	Electricity sales	2	51
SPC Power Corporation	Dividend income	8,346	1,433
Gemeng International Energy Co., Ltd.	Dividend income	16,476	37,163
Dolphin Property Limited	Dividend income	35	
PT. Bayan Resources TBK	Service	160	164
Nepal Water & Energy Development Company Private Limited	Service	375	
Pioneer Gas Power Limited	Service	164	274
Xe-Pian Xe-Namnoy Power Co., Ltd.	Service	773	584

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

December 31, 2016

**47. Related Parties, Continued**

(3) Related party transactions for the years ended December 31, 2016 and 2015 are as follows, continued:

<i>In millions of won</i> Company name	Transaction type	Sales and others	
		2016	2015
<b>&lt;Joint ventures&gt;</b>			
Daegu Green Power Co., Ltd.	Electricity sales	₩ 768	1,055
KEPCO SPC Power Corporation	Service	10,344	29,572
Daejung Offshore Wind Power Co., Ltd.	Electricity sales	1	1
KAPES, Inc. (formerly, KEPCO-ALSTOM Power Electronics Systems, Inc.)	Commission	1,176	1,315
Dangjin Eco Power Co., Ltd.	Technical fee	1,787	334
Honam Wind Power Co., Ltd.	Electricity sales	169	65
Seokmun Energy Co., Ltd.	Technical fee	1,627	2,395
Incheon New Power Co., Ltd.	Construction revenue	524	388
Chun-cheon Energy Co., Ltd.	Service	3,079	2,201
Yeonggwangbaeksu Wind Power Co., Ltd.	Electricity sales	1,591	927
KW Nuclear Components Co., Ltd.	Service	3,327	1,948
KEPCO-Uhde Inc.	Service	6	
GS Donghae Electric Power Co., Ltd.	Electricity sales	12,994	5,614
Busan Shinho Solar Power Co., Ltd.	Electricity sales	210	24
Datang Chifeng Renewable Power Co., Ltd.	Interest income	8,216	9,702
Rabigh Electricity Company	Interest income	699	565
Rabigh Operation & Maintenance Company	Service	2,395	1,780
Shuweihaat Asia Power Investment B.V.	Dividend income	2,957	
Shuweihaat Asia Operation & Maintenance Company	Service	1,179	1,006
ASM-BG Investicii AD	Service	322	
Jamaica Public Service Company Limited	Service	1,905	3,077
KV Holdings, Inc.	Dividend income	302	
Datang KEPCO Chaoyang Renewable Power Co., LTD.	Dividend income	440	
Amman Asia Electric Power Company	Service	21,915	48,968
Kelar S.A	Service	1,702	6,229
Barakah One Company	Service	25,244	
<b>&lt;Others&gt;</b>			

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Korea Development Bank	Electricity sales	3,102	4,039
	Interest income	3,164	2,402

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

December 31, 2016

**47. Related Parties, Continued**

(3) Related party transactions for the years ended December 31, 2016 and 2015 are as follows, continued:

**<Purchase and Others>**

<i>In millions of won</i>		<b>Purchase and others</b>	
<b>Company name</b>	<b>Transaction type</b>	<b>2016</b>	<b>2015</b>
<b>&lt;Associates&gt;</b>			
Dongducheon Dream Power Co., Ltd.	Electricity purchase	₩ 946,463	1,003,346
Korea Gas Corporation	Purchase of power generation fuel	3,633,198	4,598,763
Daegu Photovoltaic Co., Ltd.	REC purchase	3,243	3,978
Korea Power Engineering Service Co., Ltd.	Service	723	3,241
Yeongwol Energy Station Co., Ltd.	REC purchase	14,875	16,408
KS Solar Co., Ltd.	REC purchase	4,080	6,211
Heang Bok Do Si Photovoltaic Power Co., Ltd.	Rental fee and others	410	479
Korea Electric Power Industrial Development Co., Ltd.	Electricity metering service fee	250,057	273,057
YTN Co., Ltd.	Advertisement fee	554	440
Ulleungdo Natural Energy Co., Ltd.	Electricity purchase	60	
Cheongna Energy Co., Ltd.	Services	73	
Gangwon Wind Power Co., Ltd.	Electricity purchase	22,780	21,946
Hyundai Green Power Co., Ltd.	Electricity purchase	469,547	486,443
Korea Power Exchange	Trading fees	91,433	79,283
Hyundai Energy Co., Ltd.	Electricity purchase	1,313	1,684

Taebaek Wind Power Co., Ltd.	REC purchase	5,741	6,626
Pyeongchang Wind Power Co., Ltd.	Services	1,594	
Daeryun Power Co., Ltd.	Electricity purchase	244,023	274,379
Changjuk Wind Power Co., Ltd.	Electricity purchase	5,786	6,472
KNH Solar Co., Ltd.	Electricity purchase	4,006	4,598
S-Power Co., Ltd.	Services	437,206	614,658
Busan Solar Co., Ltd.	Electricity purchase	1,079	4,055
Green Biomass Co., Ltd.	Woodchip purchase	2,232	3,782
<b>&lt;Joint ventures&gt;</b>			
Daegu Green Power Co., Ltd.	Electricity purchase	263,797	318,221
KAPES, Inc. (formerly, KEPCO-ALSTOM Power Electronics Systems, Inc.)	Service	140,555	47,130
Honam Wind Power Co., Ltd.	Electricity purchase	6,776	5,944
Yeonggwangbaeksu Wind Power Co., Ltd.	Electricity purchase	11,208	4,974
GS Donghae Electric Power Co., Ltd.	Service	903	
Busan Shinho Solar Power Co., Ltd.	REC purchase	6,770	7,565
Global Trade Of Power System Co., Ltd.	Service	882	192
Expressway Solar-light Power Generation Co., Ltd.	Electricity purchase	2,942	3,451
Jamaica Public Service Company Limited	Service	127	106
Amman Asia Electric Power Company	Service		125
<b>&lt;Others&gt;</b>			
Korea Development Bank	Interest expense	8,231	21,719
	Provision of dividends	654,829	96,087

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****47. Related Parties, Continued**(4) **Receivables and payables arising from related party transactions as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>		<b>Receivables</b>		<b>Payables</b>	
<b>Company name</b>	<b>Type</b>	<b>2016</b>	<b>2015</b>	<b>2016</b>	<b>2015</b>
<b>&lt;Associates&gt;</b>					
Dongducheon Dream Power Co., Ltd.	Trade receivables	₩ 1,073	1,206		
	Trade payables			93,493	100,396
Korea Gas Corporation	Trade receivables	8,739	7,931		
	Non-trade receivables and others	78	255		
	Trade payables			399,563	302,752
	Non-trade payables and others			9,090	
Daegu Photovoltaic Co., Ltd.	Trade payables			56	
Jeongam Wind Power Co., Ltd.	Non-trade payables and others			4	1
Yeongwol Energy Station Co., Ltd.	Trade receivables	7,064	7,063		
	Trade payables			229	229
KS Solar Co., Ltd.	Trade receivables	2	2		
	Trade payables			53	68
	Non-trade payables and others				281
Korea Electric Power Industrial Development Co., Ltd.	Trade receivables	362	469		
	Non-trade receivables and others	47	27		
	Non-trade payables and others			18,628	27,569
DS Power Co., Ltd.	Trade receivables	1,775	260		
	Non-trade payables and others				135
Goseong Green Energy Co., Ltd.	Non-trade payables and others			3,900	3,900
Gangneung Eco Power Co., Ltd.	Trade receivables	1	1		
	Non-trade receivables and others	2,137	1,701		
Shin Pyeongtaek Power Co., Ltd.	Non-trade receivables and others	215	272		
Naepo Green Energy Co., Ltd.	Trade receivables	14	9		
Noeul Green Energy Co., Ltd.	Trade receivables	18			
Samcheok Eco Materials Co., Ltd.	Trade receivables	21			

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YTN Co., Ltd.	Trade receivables	165	93		
	Non-trade payables and others			132	154
Busan Green Energy Co., Ltd.	Trade receivables	9			
Korea Electric Vehicle Charge Service	Trade receivables	12			
Ulleungdo Natural Energy Co., Ltd.	Non-trade receivables and others	111			
Cheongna Energy Co., Ltd.	Trade receivables	165	157		
	Non-trade receivables and others		375		
	Non-trade payables and others			82	
Gangwon Wind Power Co., Ltd.	Trade receivables	8	12		
	Trade payables			2,031	1,753
Hyundai Green Power Co., Ltd.	Trade receivables	569	962		
	Trade payables			31,507	36,079
Korea Power Exchange	Trade receivables	1,066	1,452		
	Non-trade receivables and others	53	112		
	Trade payables				3,529
	Non-trade payables and others			1,235	1,529
Hyundai Energy Co., Ltd.	Trade receivables	72	44,510		
	Non-trade receivables and others	68,798			
	Trade payables			86	178
	Non-trade payables and others				8,030
Ecollite Co., Ltd.	Non-trade receivables and others	210	210		
Taebaek Wind Power Co., Ltd.	Non-trade receivables and others	112	147		
	Trade payables			386	349
	Non-trade payables and others			304	
Pyeongchang Wind Power Co., Ltd.	Trade receivables	4			
	Non-trade receivables and others		170		
	Non-trade payables and others			255	
Daeryun Power Co., Ltd.	Trade receivables	140	117		
	Trade payables			21,646	27,374
Changjuk Wind Power Co., Ltd.	Non-trade receivables and others	100	153		
	Trade payables			358	
	Non-trade payables and others			334	330
KNH Solar Co., Ltd.	Trade receivables	1	2		
	Non-trade payables and others			204	

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****47. Related Parties, Continued**

(4) Receivables and payables arising from related party transactions as of December 31, 2016 and 2015 are as follows, continued:

<i>In millions of won</i> Company name	Type	Receivables		Payables	
		2016	2015	2016	2015
S-Power Co., Ltd.	Trade receivables	₩ 142	121		
	Non-trade receivables and others	393			
	Trade payables			51,844	54,141
Green Biomass Co., Ltd.	Non-trade receivables and others		109		
	Non-trade payables and others			113	152
Nepal Water & Energy Development Company Private Limited	Non-trade receivables and others	889			
	Non-trade receivables and others	82	26		
Xe-Pian Xe-Namnoy Power Co., Ltd.	Non-trade receivables and others	58			
<b>&lt;Joint ventures&gt;</b>					
Daegu Green Power Co., Ltd.	Trade receivables	52	95		
	Non-trade receivables and others	1			
	Trade payables			27,400	22,200
KEPCO SPC Power Corporation	Non-trade receivables and others	2,349	252		
KAPES, Inc. (formerly, KEPCO-ALSTOM Power Electronics Systems, Inc.)	Non-trade receivables and others	235	251		
	Non-trade payables and others			11,992	61
Dangjin Eco Power Co., Ltd.	Non-trade receivables and others	833	300		
Honam Wind Power Co., Ltd.	Trade payables			424	342
	Non-trade payables and others			3,082	2,124
Seokmun Energy Co., Ltd.	Trade receivables	114			
	Non-trade receivables and others	160	2,086		
Incheon New Power Co., Ltd.	Trade receivables	128	128		
Chun-cheon Energy Co., Ltd.	Non-trade receivables and others	255	112		
	Trade receivables	6	7		

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Yeonggwangbaeksu Wind Power Co., Ltd.				
	Non-trade receivables and others	145	136	
	Trade payables			761 627
	Non-trade payables and others			1,362 2,000
KEPCO-Uhde Inc.				
	Non-trade payables and others			4
GS Donghae Electric Power Co., Ltd.				
	Trade receivables	775	970	
	Non-trade receivables and others	1,497	1,216	
	Non-trade payables and others			993
Busan Shinho Solar Power Co., Ltd.				
	Trade receivables	3	2	
	Trade payables			129 272
	Non-trade payables and others			670 970
Datang Chifeng Renewable Power Co., Ltd.				
	Non-trade receivables and others	210	368	
Rabigh Operation & Maintenance Company				
	Trade receivables	2,275		
	Non-trade receivables and others		1,780	
ASM-BG Investicii AD				
	Non-trade receivables and others	64		
Jamaica Public Service Company Limited				
	Trade receivables	615	1,193	
	Non-trade receivables and others		581	
Amman Asia Electric Power Company				
	Trade receivables	2,509	739	
<b>&lt;Others&gt;</b>				
Korea Development Bank				
	Accrued interest income	672	212	
	Non-trade receivables and others	217,481	45,623	
	Non-trade payables and others			408 493
	Derivatives	25,306	3,777	3,278 2,313

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****47. Related Parties, Continued****(5) Loans and others arising from related party transactions as of December 31, 2016 and 2015 are as follows:***In millions of won*

Type	Company name	Beginning balance	Loans	Collection	Others	Ending balance
Associates	KNOC Nigerian East Oil Co., Ltd.,					
	KNOC Nigerian West Oil Co., Ltd.	₩ 28,296	129		857	29,282
	(Allowance for doubtful accounts)	(17,755)			(436)	(18,191)
Associates	PT. Cirebon Electric Power	40,979	2,976	(17,838)	616	26,733
Associates	PT. Mutiara Jawa	450		(450)		
Associates	Xe-Pian Xe-Namnoy Power Co., Ltd.	1,413				1,413
Associates	PT Wampu Electric Power		13,465		557	14,022
Associates	Jungbu Bio Energy Co., Ltd.		9,000		396	9,396
Associates	Hyundai Energy Co., Ltd.		2,465			2,465
Joint ventures	KEPCO SPC Power Corporation	29,651		(2,669)	813	27,795
Joint ventures	Datang Chifeng Renewable Power Co., Ltd.	23,775		(7,847)	416	16,344
Joint ventures	Jamaica Public Service Company Limited	2,345		(2,322)	(23)	
Joint ventures	Rabigh Electricity Company	45,552		(42,594)	(317)	2,641
Joint ventures	KODE NOVUS II LLC		1,360		3,172	4,532
	(Allowance for doubtful accounts)		(4,352)		(180)	(4,532)
	Daehan Wind Power PSC		683			683
		₩ 154,706	25,726	(73,720)	5,871	112,583

**(6) Borrowings arising from related party transactions as of December 31, 2016 and 2015 are as follows:***In millions of won*

Related parties	Type	Beginning balance	Borrowings	Repayment	Others	Ending balance
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Korea Development Bank	Facility	₩ 261,437	33,958	(87,402)	207,993
	Others	6,418		(755)	5,663
	Operating funds	12,000	25,000		37,000
	Syndicated Loan		6,344	(269)	6,075

(7) Guarantees provided to associates or joint ventures as of December 31, 2016 are as follows:

*In millions of won and thousands of foreign currencies*

Primary guarantor	Secondary guarantor	Type of guarantees	Credit limit	Guarantee
Korea Electric Power Corporation	KEPCO SPC Power Corporation	Debt guarantees	USD 71,192	SMBC, Export-Import Bank of Korea and ADB
Korea Electric Power Corporation	Shuwei hat Asia Operation & Maintenance Company	Performance guarantees	USD 11,000	SAPCO
Korea Electric Power Corporation	KNOC Nigerian East Oil Co., Ltd. and KNOC Nigerian West Oil Co., Ltd.	Performance guarantees	USD 34,650	Korea National Oil Corporation (Nigerian government)
Korea Electric Power Corporation	Rabigh Operation & Maintenance Company	Performance guarantees and others	USD 1,387	RABEC
Korea Electric Power Corporation	Nghi Son 2 Power Ltd.	Bidding guarantees	USD 10,000	SMBC Ho Chi Minh
Korea Electric Power Corporation	Barakah One Company	Debt guarantees	USD 900,000	Export-Import Bank of Korea and others
		Performance guarantees and others	USD 3,404,275	
Korea Western Power Co., Ltd.	Cheongna Energy Co., Ltd.	Collateralized money invested Guarantees for supplemental funding and others (*1)	KRW 27,211	KEB Hana Bank and others
Korea Western Power Co., Ltd.	Xe-Pian Xe-Namnoy Power Co., Ltd.	Payment guarantees for business reserve	USD 2,500	Krung Thai Bank
		Collateralized money invested	USD 43,276	
		Impounding bonus guarantees	USD 5,000	SK E&C



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****47. Related Parties, Continued****(7) Guarantees provided to associates or joint ventures as of December 31, 2016 are as follows, continued:***In millions of won and thousands of foreign currencies*

<b>Primary guarantor</b>	<b>Secondary guarantor</b>	<b>Type of guarantees</b>	<b>Credit limit</b>	<b>Guarantee</b>
Korea Western Power Co., Ltd.	Rabigh Operation & Maintenance Company	Performance guarantees and others	SAR 5,600	Saudi Arabia British Bank
Korea Western Power Co., Ltd.	Daegu Photovoltaic Co., Ltd.	Collateralized money invested	KRW 1,230	IBK
Korea Western Power Co., Ltd.	Dongducheon Dream Power Co., Ltd.	Collateralized money invested	KRW 111,134	Kookmin Bank and others
Korea Western Power Co., Ltd.	PT. Mutiara Jawa	Collateralized money invested	USD 2,610	Woori Bank
Korea Western Power Co., Ltd.	Heang Bok Do Si Photovoltaic Power Co., Ltd.	Collateralized money invested	KRW 194	Nonghyup Bank
Korea Western Power Co., Ltd.	Shin Pyeongtaek Power Co., Ltd.	Collateralized money invested	KRW 40	Kookmin Bank
Korea East-West Power Co., Ltd.	Busan Shinho Solar Power Co., Ltd.	Collateralized money invested	KRW 2,100	Heungkuk Life Insurance Co., Ltd. and others
Korea East-West Power Co., Ltd.	Seokmun Energy Co., Ltd.	Collateralized money invested	KRW 580	KEB Hana Bank and others
		Guarantees for supplemental funding (*1)	KRW 15,370	
Korea East-West Power Co., Ltd.	Chun-cheon Energy Co., Ltd.	Collateralized money invested	KRW 52,700	Kookmin Bank and others
		Guarantees for supplemental funding (*1)	KRW 60,270	
Korea East-West Power Co., Ltd.	Honam Wind Power Co., Ltd.	Collateralized money invested	KRW 3,480	Shinhan Bank
			KRW 204,000	

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Korea East-West Power Co., Ltd.	GS Donghae Electric Power Co., Ltd.	Collateralized money invested		Korea Development Bank and others
Korea East-West Power Co., Ltd.	Yeonggwangbaeksu Wind Power Co., Ltd.	Collateralized money invested	KRW 3,000	Hyundai Marine & Fire Insurance Co., Ltd. and others
Korea East-West Power Co., Ltd.	PT. Tanjung Power Indonesia	Debt guarantees	USD 49,221	The Bank of Tokyo-Mitsubishi
Korea Southern Power Co., Ltd.	KNH Solar Co., Ltd.	Collateralized money invested Performance guarantees and guarantees for supplemental funding and others (*1)	KRW 1,296	Shinhan Bank and Kyobo Life Insurance Co., Ltd.
Korea Southern Power Co., Ltd.	Daeryun Power Co., Ltd.	Collateralized money invested Guarantees for supplemental funding and others (*1)	KRW 25,477	Korea Development Bank and others
Korea Southern Power Co., Ltd.	Changjuk Wind Power Co., Ltd.	Collateralized money invested Guarantees for supplemental funding (*1)	KRW 3,801	Shinhan Bank and Woori Bank
Korea Southern Power Co., Ltd.	Daegu Green Power Co., Ltd.	Collateralized money invested	KRW 46,226	Shinhan Bank
Korea Southern Power Co., Ltd.	KS Solar Co., Ltd.	Collateralized money invested	KRW 637	Shinhan Capital Co., Ltd.
Korea Southern Power Co., Ltd.	Kelar S.A	Performance guarantees	USD 50,700	KEB Hana Bank, SMBC, Mizuho Bank, BTMU, Natixis
		Debt guarantees	USD 132,600	BANCO SANTANDER-CHILE, SMBC, Mizuho Bank
Korea Southern Power Co., Ltd.	DS Power Co., Ltd.	Collateralized money invested Guarantees for supplemental funding and others (*1)	KRW 2,900	Korea Development Bank and others

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****47. Related Parties, Continued****(7) Guarantees provided to associates or joint ventures as of December 31, 2016 are as follows, continued:***In millions of won and thousands of foreign currencies*

<b>Primary guarantor</b>	<b>Secondary guarantor</b>	<b>Type of guarantees</b>	<b>Credit limit</b>	<b>Guarantee</b>
Korea Southern Power Co., Ltd.	Pyeongchang Wind Power Co., Ltd.	Collateralized money invested Performance guarantees and guarantees for supplemental funding and others (*1)	KRW 3,875	Woori Bank and Shinhan Bank
Korea Southern Power Co., Ltd.	Taebaek Wind Power Co., Ltd.	Guarantees for supplemental funding and others (*1)		Shinhan Bank
KEPCO Engineering & Construction Company, Inc.	DS Power Co., Ltd.	Collateralized money invested	KRW 15,000	Korea Development Bank and others
Korea Midland Power Co., Ltd.	Hyundai Green Power Co., Ltd.	Collateralized money invested Guarantees for supplemental funding and others (*1)	KRW 87,003	Korea Development Bank and others
Korea Midland Power Co., Ltd.	PT. Cirebon Electric Power	Debt guarantees	USD 9,653	Mizuho Bank
Korea Midland Power Co., Ltd.	PT Wampu Electric Power	Debt guarantees	USD 5,367	SMBC
Korea Midland Power Co., Ltd.	Gangwon Wind Power Co., Ltd.	Collateralized money invested	KRW 7,409	IBK and others
Korea South-East Power Co., Ltd.	Hyundai Energy Co., Ltd.	Collateralized money invested	KRW 47,067	Korea Development Bank and others
			KRW 78,600	

		Performance guarantees and guarantees for supplemental funding and others (*1)		
Korea South-East Power Co., Ltd.	RES Technology AD	Collateralized money invested	KRW 15,595	Korea Development Bank and others
		Debt guarantees	EUR 4,271	
Korea South-East Power Co., Ltd.	ASM-BG Investicii AD	Collateralized money invested	KRW 16,101	Korea Development Bank and others
		Debt guarantees	EUR 4,175	
Korea South-East Power Co., Ltd.	Express Solar-light Power Generation Co., Ltd.	Guarantees for supplemental funding and others (*1, 2)	KRW 2,500	Woori Bank
Korea South-East Power Co., Ltd.	S-Power Co., Ltd.	Collateralized money invested	KRW 132,300	Korea Development Bank and others
KOSEP USA, INC.	KODE NOVUS II LLC	Guarantees for supplemental funding and others (*1)	USD 3,750	Korea Development Bank
KOSEP USA, INC.	KODE NOVUS I LLC	Guarantees for supplemental funding and others (*1)		Export-Import Bank of Korea and others
Korea Hydro & Nuclear Power Co., Ltd.	Yeongwol Energy Station Co., Ltd.	Collateralized money invested	KRW 1,400	Meritz Fire & Marine Insurance Co., Ltd.
Korea Hydro & Nuclear Power Co., Ltd.	Noeul Green Energy Co., Ltd.,	Collateralized money invested	KRW 1,740	KEB Hana Bank and others
Korea Hydro & Nuclear Power Co., Ltd.	Busan Green Energy Co., Ltd.	Collateralized money invested	KRW 14,564	Shinhan Bank and others
KEPCO Plant Service & Engineering Co., Ltd.	Incheon New Power Co., Ltd.	Collateralized money invested	KRW 6,800	Shinhan Bank
		Guarantees for supplemental funding and others (*1)		

(\*1) The Company guarantees to provide supplemental funding for business with respect to excessive business expenses or insufficient repayment of borrowings.

(\*2) The Company has provided rights to Hana Financial Investment Co.,Ltd., an agent financial institution of the majority stockholders, that it can dispose the stocks of Express Solar-light Power Generation Co., Ltd. that the Company owns to repay the borrowings when Express Solar-light Power Generation Co., Ltd. triggers clauses related to its borrowings.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****47. Related Parties, Continued**

(8) As of December 31, 2016, there is no financial guarantee contract provided by related parties.

(9) **Derivatives transactions with related parties as of December 31, 2016 are as follows:**

(i) Currency Swap

*In millions of won and  
thousands of U.S. dollars*

Counterparty	Contract year	Pay	Contract Amount		Contract interest rate per annum		Contract exchange rate
			Pay	Receive	Pay (%)	Receive (%)	
Korea Development Bank	2016~2019	₩ 105,260	USD 100,000		2.48%	2.38%	₩ 1,052.60
	2015~2025	111,190	USD 100,000		2.62%	3.25%	1,111.90
	2016~2021	121,000	USD 100,000		2.15%	2.50%	1,210.00

(ii) Interest Rate Swap

*In millions of won*

Counterparty	Contract year	Contract amount	Contract interest rate per annum	
			Pay (%)	Receive (%)
Korea Development Bank (*)	2014~2029	40,000	3M CD 0.03%	4.65%

(\*) The contract is an interest rate swap hedging on Electricity Bonds 885, and the banks would notify the Company of the early termination every year on the early termination notification date (every year on April 28, from 2017 until 2028). The contract will be terminated if the early termination is notified.

(10) **Salaries and other compensations to the key members of management of the Company for the years ended December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>		
<b>Type</b>	<b>2016</b>	<b>2015</b>
Salaries	₩ 1,463	1,271
Employee benefits	33	59
	₩ 1,496	1,330

#### **48. Non-Cash Transactions**

Significant non-cash investing and financing transactions for the years ended December 31, 2016 and 2015 are as follows:

<i>In millions of won</i>		
<b>Transactions</b>	<b>2016</b>	<b>2015</b>
Transfer from construction-in-progress to other assets	₩ 19,971,599	10,491,054
Recognition of asset retirement cost and related provision for decommissioning costs	470,941	699,673
Transfer from provision for disposal of spent nuclear fuel to accrued expenses	283,675	491,755

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****49. Commitments for Expenditure****(1) The agreements for acquisition of property, plant and equipment as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	<b>2016</b>		<b>2015</b>	
	<b>Amounts</b>	<b>Balance</b>	<b>Amounts</b>	<b>Balance</b>
<b>Contracts</b>				
Purchase of cable (PVC, 1C, 2500SQ) 103,374M and others (Bukdangjin-Shintangjung)	₩ 42,500	42,500		
Purchase of GIS (800KV 8000A 50KA) 10CB SinjungbuS/S	63,730	63,730		
Purchase of GIS (362KV 6300A 63KA) 26CB SingosungS/S	36,950	19,897		
Purchase of GIS (362KV 6300A 63KA) 27CB KwangyangS/S	37,476	27,760		
Purchase of GIS (362KV 6300A 63KA) and 1 other 18CB BukbusanS/S	34,000	20,766		
Purchase of cable (TR CNCE-W/AL,1C,400SQ)	71,986	50,593		
Purchase of cable (TR CNCE-W,600MM2, 13, 2KV)	50,581		50,581	50,581
Purchase of transformer (765/345/23kV 666.7MVA, 2TANK) 6 units ShinjungbuS/S	37,500	37,500		
Purchase of Ground Switch (44-D-A125, 600AX4)	43,624		43,624	42,912
Purchase of Concrete Poles (10M, 350KGF)	129,175	105,905		
Purchase of Concrete Poles (10M, 350KGF)	106,037		106,037	74,549
Purchase of switch (25.8kV Eco)	40,226	28,072		
Purchase of cable (PVC,1C,2000SQ)	50,256	50,256		
Construction of New Kori units (#3,4)	6,856,150		6,856,150	214,678
Construction of New Kori units (#5,6)	8,625,387	7,286,503	8,625,387	7,899,368
Construction of New Hanwool units (#1,2)	7,982,342	1,157,700	7,982,343	2,578,707
Construction of New Hanwool units (#3,4)	8,261,818	8,170,896	8,261,817	8,238,651
Construction of Yeosu Thermal Power units (#1)	174,291	1,139	489,440	30,853
Other 31 contracts	430,204	222,555	199,846	140,563
Purchase of main machine for construction of Seoul Combined units (#1,2)	360,500	300,663	360,500	328,210
Construction of Seoul Combined units (#1,2)	225,205	129,589	227,000	182,630
Electricity construction of New Boryeong units (#1,2)	354,740	26,878	245,357	36,893

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Purchase of smoke eliminating machine for construction of New Boryeong units (#1,2)	121,093	2,023	118,058	8,775
Purchase of coal handling machine for construction of New Boryeong units (#1,2)	146,353	3,543	146,353	25,266
Service of designing New Boryeong units (#1,2)	126,038	24,333	126,038	32,910
Purchase of main machine for construction of New Boryeong units (#1,2)	851,132	10,746	851,132	137,744
Construction of New Boryeong units (#1,2)	288,438	17,828	246,964	10,859
Purchase of factory process piping of New Boryeong units (#1,2)	37,294		37,294	11
Purchase of processing plant of New Boryeong units (#1,2)	34,490		33,269	9,116
Construction of port facilities for New Boryeong units (#1,2)	78,166		78,166	
Purchase of generator for Wonju RDF combined & heat power plant	52,877		52,877	
Purchase of main machine for Heang Bok Do Si combined & heat power plant	337,283		337,283	
Purchase of coal handling machine for construction of Taeon (#9,10) and IGCC units (conditional contract for installation)	192,945	38,218	146,634	9,943
Purchase of furnace for construction of Taeon units (#9,10)	584,148	46,059	546,637	66,271
Service of designing Taeon units (#9,10)	109,700	18,981	107,516	26,437
Purchase of desulfurization machine for construction of Taeon units (#9,10)	92,086	1,017	91,592	6,175
Purchase of turbine generator for construction of Taeon units (#9,10)	228,794	6,788	426,139	103,146
Purchase of gas plant machine for construction of Taeon IGCC units	457,991		457,423	4,541
Purchase of combined generating machine for construction of Taeon IGCC units	208,972	2,102	204,514	25,808
Purchase of oxygen plant for construction of Taeon IGCC units	98,979	221	97,804	4,252
Service of designing Taeon IGCC plant units	44,802	3,342	44,374	5,520
Construction of Samcheok units (#1,2)	457,943	15,851	384,716	27,018



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****49. Commitments for Expenditure, Continued****(1) The agreements for acquisition of property, plant and equipment as of December 31, 2016 and 2015 are as follows, continued:**

<i>In millions of won</i> <b>Contracts</b>	<b>2016</b>		<b>2015</b>	
	<b>Amounts</b>	<b>Balance</b>	<b>Amounts</b>	<b>Balance</b>
Purchase of furnace for construction of Samcheok units (#1,2)	₩ 1,091,303	51,594	1,091,303	115,896
Purchase of coal handling machine for construction of Samcheok units (#1,2)	303,273	155	290,417	23,795
Service of designing Samcheok units (#1,2)	114,047	36,510	112,949	42,631
Service of designing Dangjin units (#9,10)	122,426	6,125	109,340	16,261
Construction of yard for Andong natural gas power plant	41,961	2,600	40,960	2,528
Purchase of main equipments	152,286	39,248	152,286	138,057

**(2) As of December 31, 2016, details of contracts for inventory purchase are as follows:**

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:

<b>Type</b>	<b>Periods</b>	<b>Contracted amounts</b>
Concentrate	2016 ~ 2030	34,719 Ton U3O8
Transformed	2016 ~ 2022	18,738 Ton U
Enrichment	2016 ~ 2029	34,879 Ton SWU
Molded	2016 ~ 2022	1,852 Ton U



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****50. Contingencies and Commitments****(1) Ongoing litigations related with contingent liabilities and assets as of December 31, 2016 and 2015 are as follows:**

<i>In millions of won</i>	2016		2015	
	Number of cases	Claim amount	Number of cases	Claim amount
As the defendant	675	₩ 636,433	750	₩ 1,052,301
As the plaintiff	193	489,605	202	580,987

As of December 31, 2016, in addition to the litigations mentioned above, there are ongoing litigations of Korea Hydro & Nuclear Power Co., Ltd. ( KHNP ), a subsidiary of KEPCO, against KEPCO Engineering & Construction Company, Inc., a subsidiary of KEPCO, as a co-defendant (one case amounting to ₩62,744million) and KEPCO Plant Service & Engineering Co., Ltd., a subsidiary of KEPCO, as a co-defendant (two cases amounting to ₩201 million).

A national litigation agency filed a lawsuit against NSSC regarding NSSC's approval to continue operation of Wolsung Unit 1 nuclear power plant and it is ongoing as of December 31, 2016.

The Company is the defendant against a number of claims. The followings are potentially significant claims pertaining to the Company.

Hyundai Engineering & Construction Co., Ltd.( Hyundai E&C ), SK Engineering & Construction Co., Ltd. and GS Engineering & Construction Co., Ltd. filed a lawsuit for increase in contract bill (formerly, amounted to ₩1,000 million) against KHNP in September 2013, in relation to the design changes on the plant construction of New Hanwool 1 & 2. Hyundai Engineering & Construction Co., Ltd. and two other companies increased the contract bill to ₩133,426 million in October 2014 and ₩204,040 million in November 2015, respectively, and submitted an application to demand extra contract payments due to the design changes. KHNP has paid ₩217,624 million of the claim amounts in full upon the first ruling in November 2016 and recognized the amount as addition to construction-in-progress accordingly. KHNP has made an appeal against the first ruling and the lawsuit is currently ongoing.

In December 2013, the Supreme Court of Korea ruled that regular bonuses also fall under the category of ordinary wages on the condition that those bonuses are paid regularly and uniformly. Also, the Supreme Court ruled that employees are entitled to retroactively demand certain wages based on the new ordinary wages that include regular bonuses as additional wages. However, the request may be limited to the extent of

the principle of good faith.

The Company believes that the possibility of economic outflow is probable on the ongoing and the expected lawsuit. For this reason, the Company recognized ₩178,572 million of other provision in relation to the lawsuit.

Except these significant claims, there are seven arbitration cases pertaining to the Company as of December 31, 2016 and the significant arbitration cases are as follows:

KEPCO and KEPCO KDN Co., Ltd., a subsidiary of KEPCO, have been accused of breach of contract in relation to ERP software, which is provided by SAP Korea Ltd. The litigation was filed in the International Chamber of Commerce International Court of Arbitration but the Company has not recognized any provision because the probability of economic benefit outflow is remote and the related amount cannot be reliably estimated.

Hyundai Samsung Joint Venture (HSJV), one of the subcontractors of the Company, filed an arbitration against the Company at the London Court of International Arbitration (LCIA) in 2016 due to disagreements in UAE nuclear power plant construction project, but the Company has not recognized any losses because the probability of economic benefit outflow is remote and the related amount cannot be reasonably estimated.

Hyundai E&C, GS Engineering & Construction Corp., and Hansol SeenTec Co., Ltd. filed on arbitration against the Company to the Korea Commercial Arbitration Board in relation to the request for additional construction costs but the Company has not recognized any provision because the probability of economic benefit outflow is remote and the related amount cannot be reliably estimated.

Halla Corporation filed on arbitration against the Company to the Korea Commercial Arbitration Board in relation to the request for additional construction costs but the Company has not recognized any losses because the probability of economic benefit outflow is remote and the related amount cannot be reasonably estimated.

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KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016**

**50. Contingencies and Commitments, Continued**

**(2) Guarantees of payments and commitments provided to other companies as of December 31, 2016 and 2015 are as follows:**

In order to secure its status as a shareholder of Navanakorn Electric Co., Ltd., the Company has signed a fund supplement contract. According to the contract, in case Navanakorn Electric Co., Ltd. does not have sufficient funds for its operation or repayment of borrowings, the Company bears a payment obligation in proportion to its ownership.

The Company has outstanding borrowings with a limit of USD 275,600 thousand from its creditors such as International Finance Corporation. Regarding the borrowing contract, the Company has guaranteed capital contribution of USD 69,808 thousand and additional contribution up to USD 19,000 thousand for contingencies, if any. Moreover, for one of the electricity purchasers, Central Power Purchasing Agency Guarantee Ltd., the Company has provided performance guarantee up to USD 2,110 thousand, in case of construction delay or insufficient contract volume after commencement of the construction.

The Company has provided PT. Perusahaan Listrik Negara performance guarantee up to USD 917 thousand in proportion to its ownership in the electricity purchase contract with PT. Cirebon Energi Prasarana in relation to the second electric power generation business in Cirebon, Indonesia. Also, in relation to the business, the Company has provided Limited Notice To Proceed 2 ( LNTP 2 ) Offshore performance payment guarantee amounting to USD 2,784 thousand to Hyundai Engineering Co. Ltd., Toshiba Corporation and MHPS, and LNTP 2 Onshore performance payment guarantee amounting to USD 380 thousand to Hyundai E&C and Toshiba Asia Pacific Indonesia (TAPI) based on the interest owned by the Company to progress the construction.

The Company has provided the Export-Import Bank of Korea and SMBC guarantee of mutual investment of USD 401 thousand, which is equivalent to the ownership interest of PT Mega Power Mandiri, in order to guarantee the expenses related to hydroelectric power business of PT Wampu Electric Power, an associate of the Company.

The Company has provided the Export-Import Bank of Korea, BNP Paribas and ING Bank guarantee of mutual investment of USD 2,684 thousand, which is equivalent to the ownership interest of PT BS Energy and PT Nusantara Hydro Alam, in order to guarantee the expenses related to hydroelectric power business of

Tanggamus, Indonesia.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****50. Contingencies and Commitments, Continued****(3) Credit lines provided by financial institutions as of December 31, 2016 are as follows:***In millions of won and thousands of foreign currencies*

<b>Commitments</b>	<b>Financial institutions</b>	<b>Currency</b>	<b>Limited amount</b>	<b>Exercised amount</b>
Commitments on bank-overdraft	Nonghyup Bank and others	KRW	1,635,000	54,962
Commitments on bank-daylight overdraft	Nonghyup Bank	KRW	280,000	
Limit amount available for CP	Shinhan Bank and others	KRW	700,000	
Limit amount available for card	KEB Hana Bank and others	KRW	46,323	3,102
	Banco de Oro	PHP	5,000	5,000
Loan limit	Kookmin Bank and others	KRW	1,132,282	718,617
	BNP Paribas and others	USD	1,954,150	127,395
Certification of payment on L/C	Shinhan Bank (*)	KRW	19,721	19,721
	Woori Bank and others	USD	881,380	227,315
Certification of performance guarantee on contract	Kookmin Bank and others	EUR	21,291	21,291
	KEB Hana Bank	INR	236,443	185,077
	Seoul Guarantee Insurance and others	KRW	93,781	93,781
	Bank of Kathmandu	NPR	32,633	32,633
Certification of bidding	KEB Hana Bank and others	USD	634,223	579,844
	SMBC and others	USD	18,660	18,660
Advance payment bond, Warranty bond, Retention bond and others	Bank of Kathmandu	NPR	7,176	7,176
	KEB Hana Bank	SAR	95,756	91,097
	HSBC and others	USD	3,615,443	523,114
Others	Export-Import Bank of Korea	EUR	1,400	
	KEB Hana Bank	INR	157,830	157,830
	KEB Hana Bank	JPY	756,669	756,669
	Nonghyup Bank and others	KRW	277,336	7,257
	KEB Hana Bank	SAR	2,240	
	KEB Hana Bank and others	USD	1,111,636	561,443
Inclusive credit	Shinhan Bank	INR	47,489	47,489
	KEB Hana Bank	KRW	258,000	143,840
	HSBC and others	USD	302,510	2,510
	KEB Hana Bank	USD	30,000	7,730

		INR	256,582
		BRL	426
Trade finance	BNP Paribas and others	USD	750,000

(\*) The Company was provided with a guarantee of ₩198 million from Daewoo Engineering & Construction Co. Ltd. for some of its commitments.



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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****50. Contingencies and Commitments, Continued**

(4) As of December 31, 2016, blank check and assets provided as collaterals or pledges to financial institutions by the Company are follows:

*In millions of won and thousands of foreign currencies*

<b>Guarantor</b>	<b>Guarantee</b>	<b>Type of guarantee</b>	<b>Currency</b>	<b>Amount</b>	<b>Description</b>
Korea East-West Power Co., Ltd.	Korea Development Bank and others	Shareholdings of Gyeongju Wind Power Co., Ltd.	KRW	15,958	Collateral for borrowings
Korea Midland Power Co., Ltd.	IBK and others	Shareholdings of Commerce and Industry Energy Co., Ltd.	KRW	13,605	Collateral for borrowings
Korea Southern Power Co., Ltd.	Shinhan Bank and others	Shareholdings of KOSPO Youngnam Power Co., Ltd.	KRW	40,000	Collateral for borrowings
Korea South-East Power Co., Ltd.	International Finance Corporation and others	Shareholdings of Mira Power Limited	KRW	38,206	Collateral for borrowings
Korea Hydro & Nuclear Power Co., Ltd.	Korea Development Bank and others	Shareholdings of Gyeonggi Green Energy Co., Ltd.	KRW	47,000	Collateral for borrowings
Gyeonggi Green Energy Co., Ltd.	Korea Development Bank and others	Factory estate and others	KRW	327,080	Collateral for borrowings (*)
Commerce and Industry Energy Co., Ltd.	IBK and others	Land, buildings, structures and machinery and others	KRW	110,500	Collateral for borrowings
		Cash and cash equivalents	KRW	9,051	
Gyeongju Wind Power Co., Ltd.	SK Securities Co., Ltd. and others	Property, plant and equipment and others	KRW	31,962	Collateral for borrowings
		Existing or expected trade receivables	KRW	3,431	
		Cash and cash equivalents	KRW	716	

KOSPO Youngnam Power Co., Ltd.	Shinhan Bank and others	Bank deposit and insurance claim	KRW	396,120	Collateral for borrowings
Qatrana Electric Power Company	The Islamic Development Bank and others	Finance Lease receivable and property, plant and equipment and others	JOD	188,580	Collateral for borrowings
KST Electric Power Company	Scotiabank Inverlat, S.A	Finance Lease receivable and others	USD	332,850	Collateral for borrowings

(\*) The Company was provided with shares of Gyeonggi Green Energy Co., Ltd., one of its subsidiaries, from the investors as collateral related to long-term borrowings. Additionally, pledge for shares, pledge for transfer of rights of long-term borrowings, pledge for insurance claims and other pledges were established.

The Company has ₩1,197 million of project loans from Korea Resource Corporation as of December 31, 2016. The Company has provided a blank check as repayment guarantee.

(5) The Company temporarily suspended operations of the Gangneung hydroelectric generating plant, with a carrying amount of ₩94,886 million as of December 31, 2016, to improve the quality of water used in generating electricity. The expenses related to the suspension of operations of ₩459 million and depreciation on the utility plant of ₩6,639 million are recorded to other expenses for the year ended December 31, 2016.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****50. Contingencies and Commitments, Continued**

- (6) Due to the Korean government's announcement of suspension of operation in the Gaeseong Industrial District, it is uncertain if the Company can exercise the property rights for the Company's facility in the Gaeseong Industrial District as of December 31, 2016. The book value of facility is ₩19,820 million and the amount of trade receivables related to the companies residing in Gaeseong industrial complex is ₩3,172 million. The Company has entered into an insurance agreement covering up to ₩7,000 million with the Export-Import Bank of Korea related to Gaeseong industrial complex. The ultimate outcome of this event cannot be reasonably estimated.

**51. Subsequent Events**

- (1) Subsequent to December 31, 2016, Korea Western Power Co., Ltd., a subsidiary of the Company, issued non-guaranteed bonds and additional foreign currency short-term borrowings for funding facilities and operations as follows:

*In millions of won and thousands of foreign currencies*

Company Name	Type	Issued date	Maturity	Maturity	Amounts
Korea Western Power Co., Ltd.	Short-term borrowings	2017.01.11	2017.07.10	1.62%	USD 13,618
	Corporate bonds #33-1	2017.02.22	2022.02.22	2.04%	₩ 70,000
	Corporate bonds #33-2	2017.02.22	2027.02.22	2.34%	130,000

- (2) On January 19, 2017, Marubeni Korea Corporation filed on arbitration against the Company to the Korean Commercial Arbitration Board in relation to the refund of ₩4,050 million paid by Marubeni Korea Corporation to the Company as a penalty payment for the delayed delivery of Pyeongtaek 2 compound main equipment. The Company was notified on February 14, 2017 and is planning to appoint an arbitrator to proceed with arbitration. The management of the Company anticipates that the result of the arbitration will not have a significant impact on the Company's business or financial position.

**(3) Ordinary wage lawsuit**

As of December 31, 2016, a total of eight lawsuits filed at the Busan High Court and others against KHNP in relation to the ordinary wages were ongoing. Two of these lawsuits filed to the Seoul Central District Court were ruled on February 3, 2017 with a partial favor to the plaintiff. The Company believes the ruling did not have any significant

impact on the provisions recorded at December 31, 2016.

**(4) Result of Wolsung Unit 1 lawsuit**

On February 7, 2017, regarding the lawsuit as disclosed in note 2.(4).(vii), a national litigation agency filed against NSSC, the Seoul Administrative Court ruled to annul the life extension of Wolsung Unit 1 nuclear power plant. On February 14, 2017, NSSC appealed against the first judgment. KHNP, a subsidiary of the Company, is continuing to operate Wolsung Unit 1 nuclear power plant based on the judgment of NSSC that the approval of NSSC is valid, and believes that Wolsung Unit 1 nuclear power plant will be operated until 2022. Meanwhile, the Joint Action for a Nuclear-free Society submitted a suspension of execution of permission to operate Wolsung Unit 1 nuclear power plant to the Seoul Administrative Court. On February 14, 2017, KHNP joined in the lawsuit for a suspension of execution of permission to operate Wolsung Unit 1 nuclear power plant as a third party and a stakeholder.

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## KOREA ELECTRIC POWER CORPORATION AND SUBSIDIARIES

Notes to the Consolidated Financial Statements, Continued

**December 31, 2016****52. Adjusted Operating Income**

The operating profit in the Company's consolidated statements of comprehensive income prepared in accordance with K-IFRS included in this report differs from that in its consolidated statements of comprehensive income prepared in accordance with IFRS as issued by IASB. The table below sets forth a reconciliation of the Company's results from operating activities as presented in the Company's consolidated statements of comprehensive income prepared in accordance with K-IFRS for the years ended December 31, 2016 and 2015 to the operating profit or loss as presented in the Company's consolidated statements of comprehensive income prepared in accordance with IFRS as issued by IASB for each of the corresponding years.

<i>In millions of won</i>	<b>2016</b>	<b>2015</b>
<b>Operating profit on the consolidated statements of comprehensive income</b>	<b>₩ 12,001,599</b>	<b>11,346,732</b>
<b>Add</b>		
Other income		
Reversal of other provisions	22,034	6,355
Reversal of other allowance for bad debt	5,489	413
Gains on government grants	111	204
Gains on assets contributed	12,254	9,004
Gains on liabilities exempted	1,959	2,588
Compensation and reparations revenue	114,530	166,355
Revenue from research contracts	13,143	5,342
Rental income	211,580	196,406
Others	31,787	45,552
<b>Other gains</b>		
Gains on disposal of property, plant and equipment	74,035	8,637,508
Gains on disposal of intangible assets		32
Reversal of impairment loss on intangible assets	3	275
Gains on foreign currency translation	15,311	13,784
Gains on foreign currency transaction	55,377	61,007
Gains on insurance proceeds		30
Others	187,792	162,128
<b>Deduct</b>		
Other expense		
Compensation and indemnification expense		(16,959)
Accretion expenses of other provisions	(4,556)	(4,575)
Depreciation expenses on investment properties	(678)	(669)
Depreciation expenses on idle assets	(6,639)	(6,698)

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Other bad debt expense	(4,585)	(18,473)
Donations	(114,094)	(34,134)
Others	(58,072)	(27,340)
Other loss		
Losses on disposal of property, plant and equipment	(42,715)	(73,073)
Losses on disposal of intangible assets	(158)	(16)
Impairment loss on property, plant and equipment		(30,344)
Impairment loss on intangible assets	(3,945)	(22)
Losses on foreign currency translation	(23,835)	(15,097)
Losses on foreign currency transaction	(72,058)	(75,615)
Others	(119,309)	(69,824)
<b>Adjusted operating profit</b>	<b>₩ 12,296,360</b>	<b>20,280,876</b>