

Investor Relations

Global Power EPC Company

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Disclaimer

This material has been produced to provide investors with various information in order for them to get more understanding about KEPCO E&C based on the objective facts as best as we can.

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Company Overview

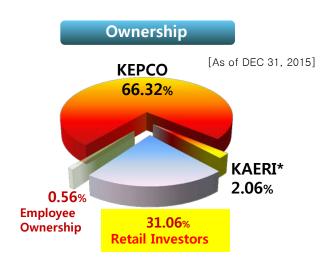


Korea's Leading Power Plant Engineering Company

- Korea's leading provider of design and engineering for nuclear, thermal and hydro-electric plants with over 40 years of experience
- Current 100% market share in nuclear power plant design in Korea
- The world's most competitive engineering company specialized in the two sectors: A/E and NSSS
- Expanding its business to Thermal EPC, energy-related business, environment-friendly business, etc.

Corporate Information

CEO & President	Park, Koo Woun Former nuclear power advisor, POSCO E&C Former Senior Vice President, KEPCO E&C
Foundation Date	October 1, 1975
Employees	2,260 (As of DEC. 31, 2015)
Business Area	Power plant design & engineering, etc.



* KAERI - Korea Atomic Energy Research Institute

IPO Information

Shares Outstanding *Common shares 100%	38,220,000	
Listing Date	December 14, 2009	
Offered Securities	7,644,000	

[Unit: KRW]				
FY	2012	2013	2014	2015
Dividend Propensity*	55%	45%	40%	25%
Amount (per a share)	1,932	406	575	200

^{*} Dividend Propensity – Dividend/Net Income *100

Business Overview

Business Area

Design & Engineering

- Nuclear Power Plant
- Thermal Power Plant
- Combined Cycle Power Plant
- Cogeneration Power Plant

Environmentally-friendly Biz.

- FGD System / DeNOx System
- ESCO, Renewable Energy
- Water Pollution Control
- Wastewater Treatment Facilities



O&M (Operations & Maintenance)

Technology & Engineering Support for Operating Power Plants

PM/CM

- SOC
- Private SOC
- Power Plants
- International Plants

Business Area – Design & Engineering



- All of the local nuclear power plants have been independently designed by KEPCO E&C since 1993
- Experiences of Coal fired/ CFBC Coal fired/ Combined Cycle/ Cogeneration Design

Major Project Experience

Nuclear power

Reacto	r Project	Project Period	Client
	Shin-Hanul #3,4	Mar '16 ~ Dec `23	KHNP
	Shin-Kori #5,6	Apr '14 ~ Mar '22	KHNP
APR 1400	UAE #1,2,3,4	Mar '10 ~ May '20	KEPCO
	Shin-Hanul #1,2	Dec '07 ~ Dec ` 16	KHNP
	Shin-Kori #3,4	Aug '06 ~ May '16	KHNP
	APR1400 US NRC DC design/licensing support - Stage 2	Aug '14 ~ Oct `17	KHNP

Services performed

- Site selection and feasibility survey
- Engineering and design
- Construction/Project management, licensing support, quality assurance and inspection
- Support for purchasing, owner support, education/training

Thermal power

Capacity	_(мw) Project	Project Period	Client
1000x2	Gosung Greenpower	May '14 ~ Jul '21	SK E&C
1000x2	Gangneung Anin	Feb '14 ~ Sep '20	Samsung C&T
1000	Shin-seocheon	Jun '14 ~ Dec '19	Korea Midland Power
400	Osan cogeneration EPC	Apr '13 ~ Mar '16	DS Power
540	Cote d'Ivoire IV CCPP Add-on EPC	Jul '13 ~ Mar '16	CIPREL
1000x2	Taean #9,10	Jun '11 ~ Mar '17	Korea Western Power
1000x2	Shin-Boryeong #1,2	Jan '11 ~ Sep '17	Korea Midland Power
1000x2	Dangjin #9,10	Oct '07 ~ Sep '16	Korea East- West Power
1000x2	Samchok #1,2	Sep '09 ~ Sep '16	Korea Southern Power
300	Taean *IGCC Pilot Plant	Apr '11 ~ Jul '16	Korea Western Power

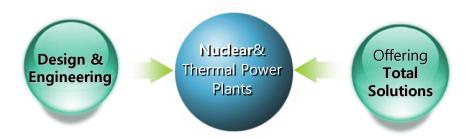
*IGCC - Integrated Gasification Combined Cycle (Producing electricity by burning coal gas regarded as clean as natural gas)

* CFB - Circulating Fluidized Bed Combustion Boiler

Business Area - O&M

Contribution to the Improvement of the Operating Power Plants' Operability, Efficiency and Safety

O&M (Operations & Maintenance)

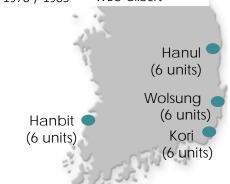


Services performed • Technology support and engineering services • Replacement design of key equipment • Increase the output of power plants • Design facility improvement of power plants in operation • Technical support for license application and new regulatory requirements

• Nuclear Power Plants in Operation in Korea

Reacto	r Project	First Power	Design
OPR	Shin-Wolsung #1,2	2012 / 2015	KEPCOE&C
1000+	Shin-Kori #1,2	2011 / 2012	KEPCOE&C
	Hanul #5,6	2004 / 2005	KEPCOE&C
OPR	Hanbit #5,6	2002 / 2002	KEPCOE&C
1000	Hanul #3,4	1998 / 1999	KEPCOE&C
	Hanbit #3,4	1995 / 1996	KEPCOE&C-WEC
CANDU	Wolsung #3,4	1998 / 1999	AECL-KEPCOE&C
CANDU PHWR	Wolsung #2	1997	AECL-KEPCOE&C
	Wolsung #1	1983	AECL-CANATOM
	Hanul #1,2	1988 / 1989	Framatome
PWR	Hanbit #1,2	1986 / 1987	WEC-Bechtel
	Kori #3,4	1985 / 1985	WEC-Bechtel
	Kori #1,2	1978 / 1983	WEC-Gilbert

^{*}AECL - Atomic Energy of Canada Limited

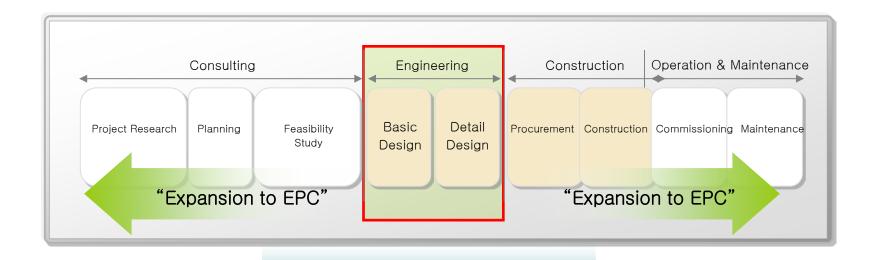


^{*}The Uljin was renamed Hanul

^{*}WEC – WestingHouse Electric.

Business Area - PM/CM

Management of the Entire or Parts of a Construction Project (Consulting, Engineering, Construction, O&M, etc.)



Involved Projects



Technology – Nuclear Power Plant

Korean Nuclear Power Plant Design Development

OPR 1000 Optimized

Power Reactor

- Improved Safety
- Improved Operability, Maintainability and Accessibility
- Hanbit Units 5,6
 Hanul Units 3~6

1990s - GEN. Ⅲ

OPR+Improved OPR

- Optimization of plant arrangement
- Optimization of system design and Equipment capacity
- Shin-Wolsong Units 1,2 Shin-Kori Units 1,2

APR 1400

Advanced Power Reactor

- 1,400MW Class large capacity
- A Korean nuclear power reactor improved economic factor
- Shin-Kori Units 3,4
 Shin-Hanul Units 1,2
 BNPP(UAE) Units 1~4

SMART

System-integrated Modular Advanced Reactor

- 90MW
- Reactor, steam generator, pressurizer & coolant pumps integrated in one vessel

Under Development

APR+ Improved APR

- 1,500MW
- New light water nuclear reactor

APR 1400 (For Europe)

APR 1400 (US NRC DC*)

VHTR

Very High Temperature Reactor

SFR

Sodium Cooled Fast Reactor

2020s - GEN. IV

2010s - GEN. Ⅲ+

The Competing Reactors

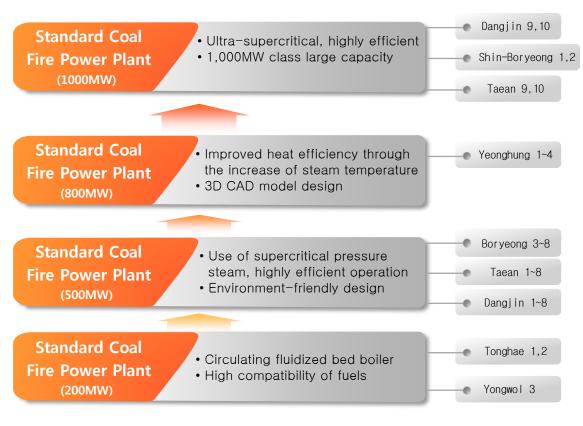
France AREVA EPR1600 USA WH-Toshiba AP1000

Japan Mitsubishi APWR+ Russia ASE VVFR-1500

* All of the reactors in this box are PWR type reactors.

Technology – Thermal Power Plant

Coal-Fired Power Plant Design Development





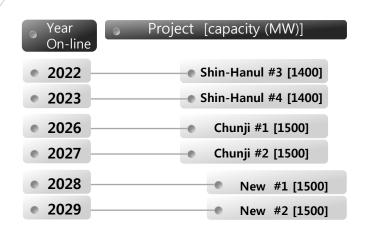
Dangjin #1~4- World Best Project Awarded
 VS, Power Engineering, 2001>



Boryeong #3,4 – World Best Project Awarded
 US, Electric Power International, 1996>

Nuclear power plans - Large Units

New Domestic Reactors to be constructed

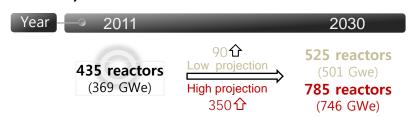


- "7th basic long-term power development plan of electricity supply and demand" was released by MOTIE in July 2015
- The plan has two more reactors than earlier planned.
- It contains 2030 target of reducing greenhouse gas emissions by 37percent from BAU levels, higher than its earlier plan for a 15-30 percent cut.
- In relation to greenhouse gas emissions, Nuclear power is one of the lowest among different energy sources.

*MOTIE - The Ministry of Trade Industry and Energy

Overseas

*Projected Growth for World Nuclear Power



Nuclear power plans - Small Units & Others

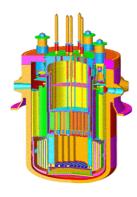
SMART export plan

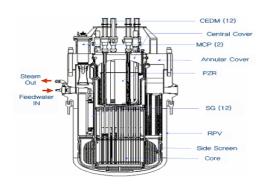
SMART - Integral type reactor

- steam generator, pressurizer, and coolant pump are all integrated into one vessel.
- 90MW of electricity output, 40,000ton/day of desalination capacity
 - can supply a city with a population of 100,000
- Year 2012 : Acquired SDA(standard design approval) in Korea. (the first SDA as integral type reactor in the world)
- Year 2013 : Cooperation agreement with Saudi Arabia on the introduction of SMART in Saudi Arabia
- Year 2015 : Signed a deal to jointly invest in studying the prospect of building at least two SMART in Saudi Arabia

Participation in the international project – ITER

- International Thermonuclear Experimental Reactor(ITER) Project
- □ 7 countries that run the project EU, U.S., Russia, China, Japan, India and South Korea
- Total amount of orders KEPCO E&C has received: 57.3 KRW bn. (expecting more orders)





Nuclear power plans - Decommissioning

Decommissioning

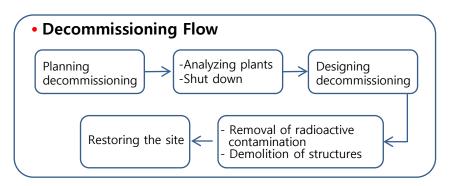
The oldest reactors in Korea

Plant	Commercial operation	Planned close	
KORI #1	1978	2017	license extended 2007 → 2017
Wolsung #1	1983	2012	license extended 2012 → 2022
KORI #2	1983	2023	
KORI #3	1985	2024	
KORI #4	1986	2025	

- Kori-1, the first nuclear power plant in Korea, is scheduled to become the first reactor to go dormant.
 - it had 30-year lifespan expired in 2007, but gained approval of additional 10-year operation.
- The Korean government announced in June, 2015 that the development of the 17 decommissioning techniques that have yet to be finished would be completed by 2021.

Decommissioning?

- series of various follow-up processes upon the completion of operation regarding nuclear power plant facilitates.
- Minimization of radioactive contamination from facilities after decontamination and decommissioning.
- Republic of Korea and UK have strengthen cooperation in the research on nuclear decommissioning.



2016 1H Financial Highlights

• Revenue [Unit : KRW bn.] 841.9 657.6 1H 322.0 246.0

2015

Revenue Breakdown

[Unit: KRW bn.]

		Design & Engineering	Procurement& Construction	Others
Business	2016. 1H	219.1	26.9	0
Area	2015. 1H	221.6	100.4	0
		Nuclear	Thermal	Others
Division	2016. 1H	159.7	82.4	3.9
Division	2015. 1H	154.0	166.6	1.4

Operating Income /Margin

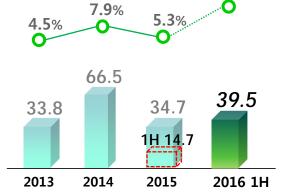
2014

2013

[Unit: KRW bn.]

16.1%

2016 1H

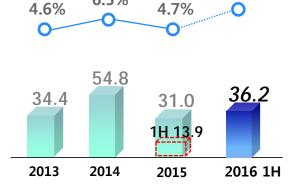


Net Income /Margin

6.5%

[Unit: KRW bn.]

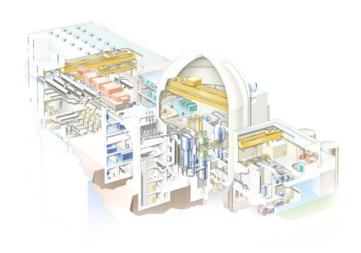
14.7%



Quarterly Overview

[Unit: KRW bn.]

	2016 2Q	2016 1Q	2015 2Q
Revenue (%Q/Q)	128.0 (+8.5%)	118.0	151.6
Operating Income (%Q/Q)	25.5 (+81.5%)	14.1	7.0
Net Income (%Q/Q)	23.4 (+83.7%)	12.7	10.3





2354 Yonggudaero, Giheung-gu, Yongin-si Gyeonggi-do, South Korea 446-713

http://www.kepco-enc.com

