

Investor Relations

Global Power EPC Company

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Company Overview

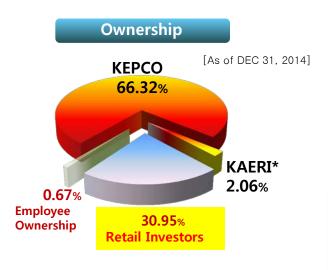


Korea's Leading Power Plant Engineering Company

- Korea's leading provider of design and engineering for nuclear, thermal and hydro-electric plants with over 38 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	2,297 (As of DEC. 31, 2014)
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	2010	2011	2012	2013	
Dividend Propensity*	50%	70%	55%	45%	
Amount (per a share)	1,847	2,126	1,932	406	

^{*} 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, Hanul Unit 3.



*KHNP – Korea Hydro & Nuclear Power co. LTD. (The sole nuclear power plant operator in Korea)

*CANDU PHWR - CANada Deuterium Uranium Pressurised Heavy Water Reactor

Major Project Experience

Projects in Progress

Reacto	r Project	Project Period	Client
	Shin-Kori #5,6	Apr '14 ~ Mar '22	KHNP
APR	UAE #1,2,3,4	Mar '10 ~ May '20	KEPCO
1400	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	Aug '14 ~ Oct `17	KHNP

Projects Completed

/			
Reactor	Project	First Power	Design
OPR 1000+	Shin-Wolsung #1,2 Shin-Kori #1,2	2012 / 2014 2011 / 2012	KEPCOE&C KEPCOE&C
OPR 1000	Hanul #5,6 Hanbit #5,6 Hanul #3,4 Hanbit #3,4	2004 / 2005 2002 / 2002 1998 / 1999 1995 / 1996	KEPCOE&C KEPCOE&C KEPCOE&C KEPCOE&C-WEC
CANDU PHWR	Wolsung #3,4 Wolsung #2 Wolsung #1	1998 / 1999 1997 1983	AECL-KEPCOE&C AECL-KEPCOE&C AECL-CANATOM

^{*}The Uljin was renamed Hanul

^{*}WEC – WestingHouse Electric.

^{*}AECL - Atomic Energy of Canada Limited

Technology – Nuclear Power Plant



VHTR

SFR

Very High

Temperature Reactor

Sodium Cooled

Fast Reactor

Korean Nuclear Power Plant Design Development

OPR 1000 Optimized

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

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

Under Development

APR 1400 (For Europe)

Improved APR

• 1,500MW

APR+

 New light water nuclear reactor

APR 1400 (US NRC DC*)

SMART

System-integrated Modular Advanced Reactor

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

2020s - GEN. IV

2010s - GEN. Ⅲ+

1990s - GEN. Ⅲ

The Competing Reactors

France AREVA FPR1600 USA WH-Toshiba AP1000

Japan Mitsubishi APWR+ Russia ASE VVFR-1500

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



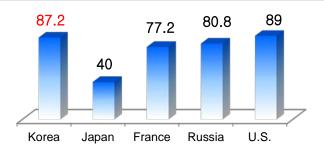


APR1400 - The best reliability, economic efficiency and operability

Comparison with other reactors (* www.apr1400.com)

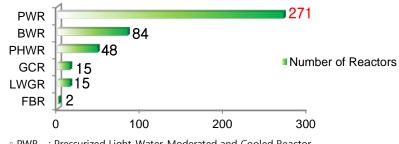
	APR1400	AP1000	EPR	ABWR		
Developer	KHNP	WH/ Mitsubishi	Framatome ANP	Hitachi/ Toshiba/ GE		
Power Capacity (MWe)	1,400	1,100	1,600 - 1,700	1,300		
Design Life (Year)	60	60	60	60		
Construction Period (month)	48	36	57	48		
Refueling Time (month)	18	18~24	18	18~24		
Reactor Type	PWR	PWR	PWR	BWR		

Energy Availability Factor(%)



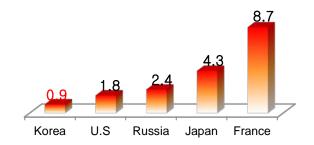
- EAF = (REG-PEL-UEL-XEL)/REG x100
- REG: Reference Energy Generation PEL: Planned Energy Loss
- UEL: Unplanned Energy Loss XEL: External Energy Loss

Operational Reactors by type in the world



- PWR : Pressurized Light-Water-Moderated and Cooled Reactor
 BWR : Boiling Light-Water-Cooled and Moderated Reactor
- PHWR: Pressurized Heavy-Water-Moderated and Cooled Reactor
 GCR: Gas-Cooled, Graphite-Moderated Reactor
- LWGR: Light-Water-Cooled, Graphite-Moderated Reactor
- FBR : Fast Breeder Reactor
- * Above data are from the IAEA PRIS database, update on 2013-11-20

Unplanned Capacity Loss Factor(%)



^{*} IAEA PRIS (Power Reactor Information System), A three-year average (2010~2012)

Market Opportunities



Focus on New Opportunities at Home & Abroad

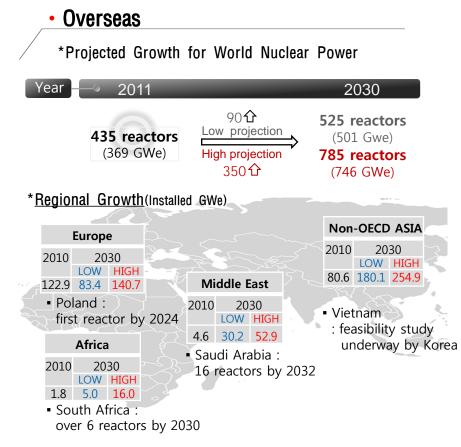
Growth of Nuclear Power



*Timeline for Completion of Nuclear power plant construction (`13~`24)

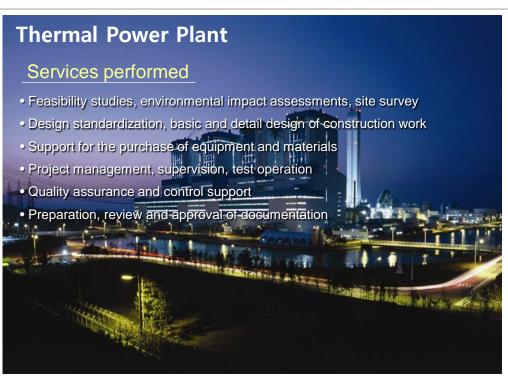


*This timeline is based on "The 6th Basic Plan of Long-term Electricity Supply" of The Ministry of Knowledge Economy, Feb, 2013



Business Area – Design & Engineering

Experiences of Coal fired/ Combined Cycle/ Cogeneration Design



Major Project Experience

Projects in Progress

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
1 000	Shin-seocheon	Jun '14 ~ Dec '19	Korea Midland Power
4 00	Osan cogeneration EPC	Apr '13 ~ Mar '16	DS Power
5 40	Cote d'Ivoire IV CCPP Add-on EPC	Jul '13 ~ Dec '15	CIPREL
1 340	Ghana Takoradi T2 EPC	Dec '11 ~ Oct '14	Takoradi Int'l Company
■ 1000x2	Taean #9,10	Jun '11 ~ Mar '17	Korea Western Power
■ 150 x3	Turkey Turfanbeyli EP	Apr '11 ~ Feb '15	SK E&C
■ 1000x2	Shin-Boryeong #1,2	Jan '11 ~ Sep '17	Korea Midland Power
□ 1000x2	Dangjin #9,10	Oct '07 ~ Sep '16	Korea East- West Power
3 00	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

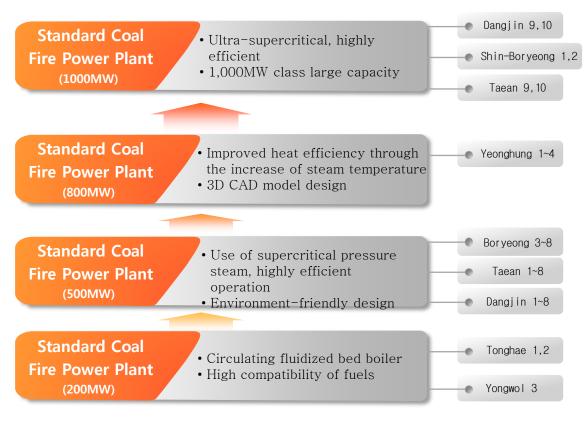
Projects Completed

Coal Fired Power Plant

- 500MW 34 Units 800MW 4 Units
- Large Scale *CFB Coal Fired Power Plant
- 200MW 2 Units
 340MW 1 Unit
 Combined Cycle /Cogeneration
 38 Units

Technology – Thermal Power Plant

Coal-Fired Power Plant Design Development







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

Business Area - O&M

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



Major Project Experience

Recent Projects

- Technical support for license application to replace the steam generator for Hanul #1,2
- Technical consulting for license application to increase the output for Hanul #1,2
- Improvement of facilities at Yeosu #2
- hundreds of small projects are in progress

Business Area - O&M

The O&M market is growing due to the old operating nuclear power plants.

Domestic Operating Nuclear Power Plants (23 units)

Plant		Capacity (MW)	Commercial Date	NSSS Supplier	Plant A/E	Model
Kori	#1,2	587/650	Apr `78/ Jul `83	WEC	Gilbert	PWR
KOH	#3,4	950	Sep `85 / Apr `85	WEC	Bechtel/KEPCO E&C	PVVK
Wolsung	#1,2	679 /700	Apr `83 / Jul `98	AECL/	AECL	PHWR
3	#3,4	700	Jul `98 / Oct `99	AECL/DOOSAN	AECL/KEPCO E&C	PHVVK
	#1,2	950	Aug `86 / Jun `87	WEC	Bechtel/KEPCO E&C	PWR
Hanbit	#3,4	1,000	Mar `95 / Jan `96	DOOSAN	KEPCO E&C	PWR
	#5,6	1,000	May `02 / Dec `02	DOOSAN	KEPCO E&C	(OPR1000)
	#1,2	950	Sep `89 / Sep `88	Framatome	Framatome	PWR
Hanul	#3,4	1,000	Aug `98 / Dec `99	DOOSAN	KEPCO E&C	PWR
	#5,6	1,000	Jul `04 / Apr `05	DOOSAN	KEPCO E&C	(OPR1000)
Shin-Kori	#1,2	1,000	Feb `11 / Jul `12	DOOSAN	KEPCO E&C	PWR
Shin-Wolsung	#1,2	1,000	Jul `12	DOOSAN	KEPCO E&C	(OPR1000+)

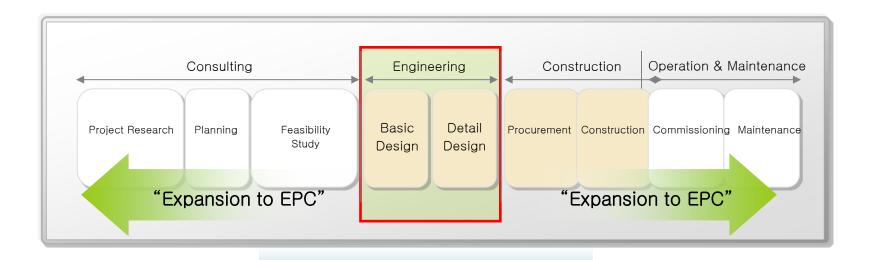


Developing Canada PHWR O&M Market

- MOU with SNC-Lavalin Nuclear (Mar `12)
- MOU with CANDU Energy (May `12)
- Established the Office in Toronto, Canada (Dec `12)
- * CANDU Energy
 - created in 2011 when parent company SNC-Lavalin purchased the commercial reactor division of AECL(Atomic Energy of Canada Limited), along with CANDU reactor technology
- * CANDU reactor
 - CANada Deuterium Uranium PHWR(Pressurised Heavy Water Reactor)

Business Area - PM/CM

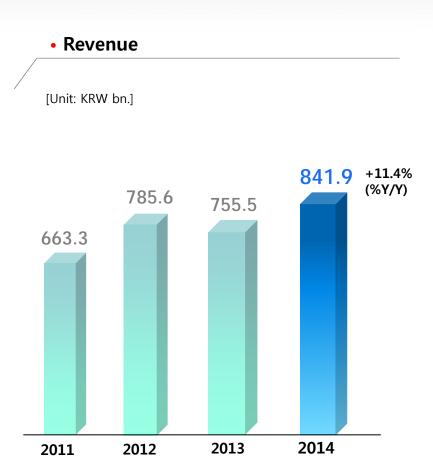
Management of the Entire or Parts of a Construction Project (Consulting, Engineering, Construction, O&M, etc.)



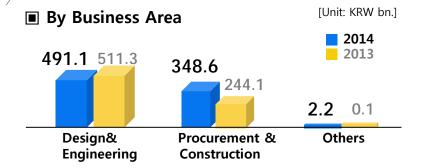
Involved Projects



2014 FY







■ By Division

[Unit: KRW bn.]

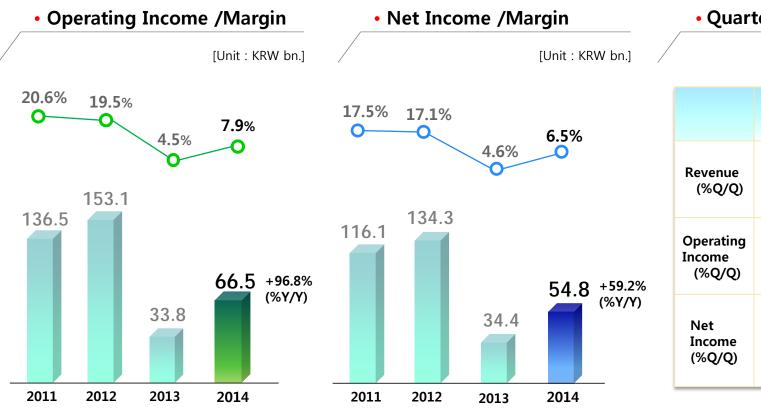
	Nuclear	Thermal	Others
2014	377.6 (44.8%)	442.6 (52.6%)	21.7 (2.6%)
2013	360.2 (47.7%)	373.8 (49.5%)	21.5 (2.8%)

By Region

overseas

40% (332.9 KRW bn.)

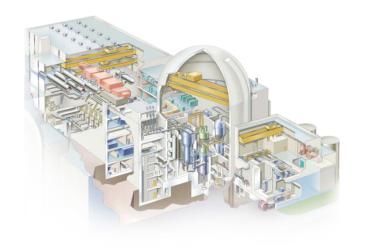
2014 FY

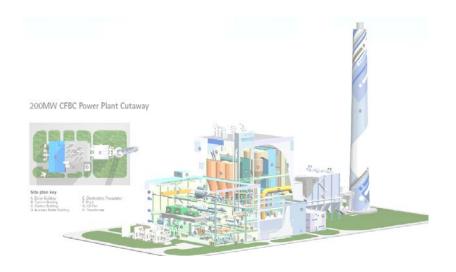


Quarterly Overview

[Unit: KRW bn.]

	2014 4Q	2014 3Q	2013 4Q
Revenue (%Q/Q)	259.7 (34.2)	193.0	240.3
Operating Income (%Q/Q)	104 (-11.1)	117	-74
Net Income (%Q/Q)	93 (9.4)	85	-32







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