

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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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.



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

2. Business Area

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

Reactor Project		Project Period	Client
	Shin-Hanul #3,4	Mar '16 ~ Dec `23	KHNP
	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
SMART	PPE BOP	Jun '16 ~ Nov '18	KAERI
APR1400 US NRC DC		Aug '14 ~ Oct `17	KHNP

design/licensing support - Stage 2

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

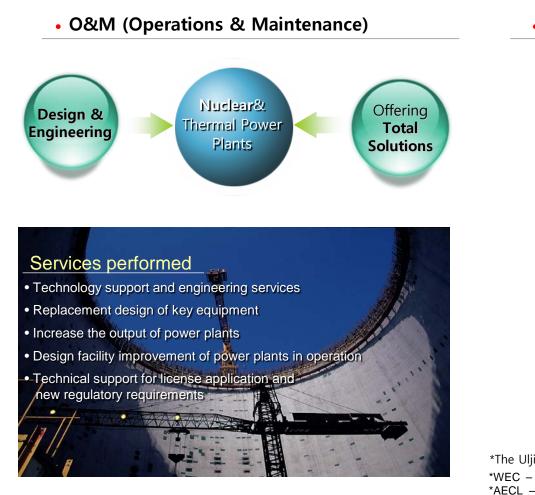
Capacity	(MW) Project	Project Period	Client
1000x2	Gosung Greenpower	May '14 ~ Jul '21	SK E&C
1000x2	Gangneung Anin	Feb '14 ~ Sep '20	Samsung C&T
1000	Shin-seocheon	Jun '14 ~ Dec '19	Korea Midland Power
400	Osan cogeneration EPC	Apr '13 ~ Mar '16	DS Power
540	Cote d'Ivoire IV CCPP Add-on EPC	Jul '13 ~ 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 '17	Korea Southern Power
300	Taean *IGCC Pilot Plant	Apr '11 ~ Nov '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



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



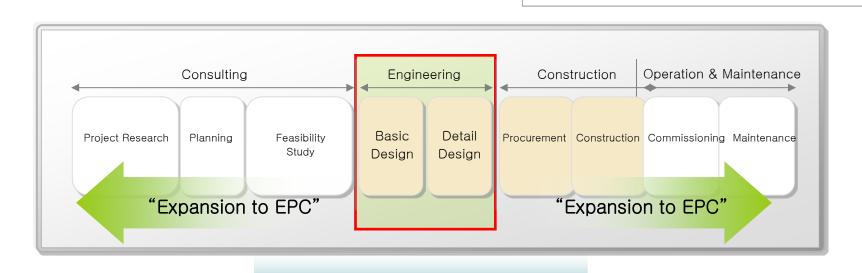
• Nuclear Power Plants in Operation in Korea

	Reactor	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
		Wolsung #3,4	1998 / 1999	AECL-KEPCOE&C
	CANDU PHWR	Wolsung #2	1997	AECL-KEPCOE&C
	FUMA	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
				R.
			P	Hanul (6 units)
				Wolsung
			Hanbit	(6 units)
jin was renamed Hanul		(6 units)	Kori	
- WestingHouse Electric. – Atomic Energy of Canada Limited		1	(6 units)	

Business Area – PM/CM



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



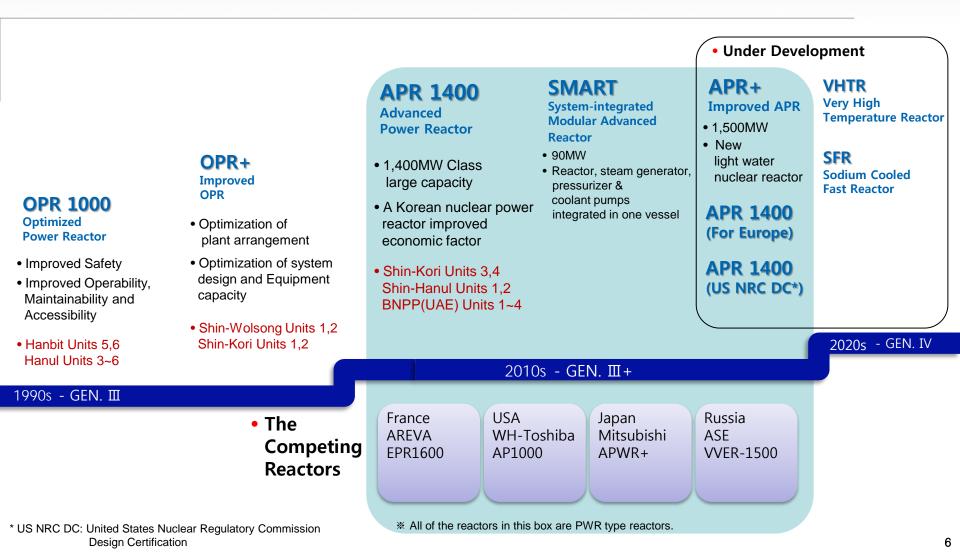
Involved Projects



Technology – Nuclear Power Plant



Korean Nuclear Power Plant Design Development

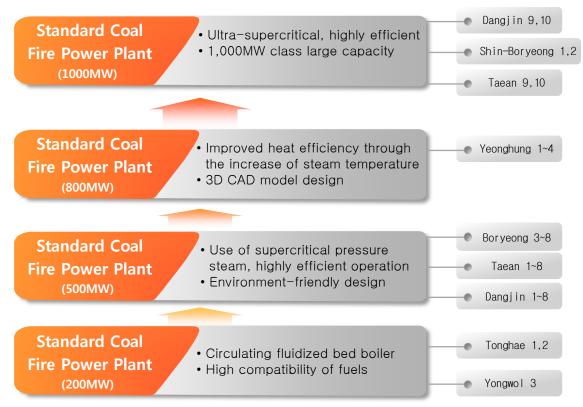




Technology - Thermal Power Plant



Coal-Fired Power Plant Design Development





• Dangjin #1~4- World Best Project Awarded <US, Power Engineering, 2001>



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

Overseas

Nuclear power plans - Large Units

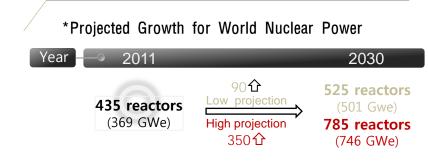
New Domestic Reactors to be constructed

• Year On-line	Project [capacity (MW)]
• 2022	Shin-Hanul #3 [1400]
• 2023	• Shin-Hanul #4 [1400]
• 2026	• Chunji #1 [1500]
• 2027	• Chunji #2 [1500]
• 2028	• New #1 [1500]
• 2029	• New #2 [1500]

"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



Nuclear power plans – Small Units & Others



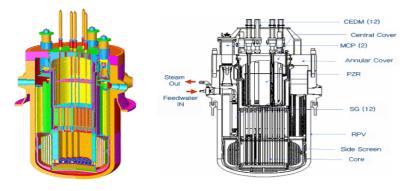
• SMART export plan

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
- P 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

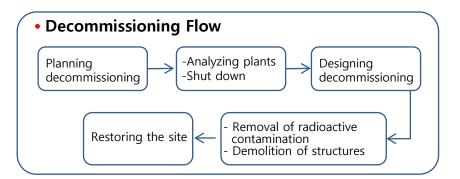
Plant	Commercial operation	Planned close	
KORI #1	1978	2017	license extended 2007 → 2017
Wolsung #1	1983	2012	license extended 2012 → 2022
KORI #2	1983	2023	
KORI #3	1985	2024	
KORI #4	1986	2025	

The oldest reactors in Korea

• 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.

- 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.



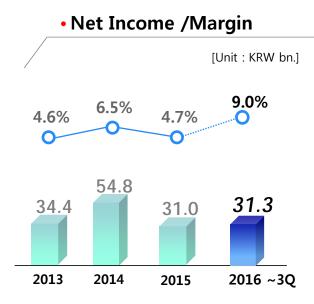
2016 3Q Financial Highlights



Revenue Breakdown

/	/			[Unit :	KRW bn.]
,			Design & Engineering	Procurement& Construction	Others
	Business	2016 ~3Q	317.5	30.7	0
	Area	2015 ~3Q	327.4	140.2	0
			Nuclear	Thermal	Others
	Division	2016 ~3Q	234.7	108.1	5.4
		2015 ~3Q	229.7	236.1	1.8

• Operating Income /Margin [Unit : KRW bn.] 10.9% 7.9% О 5.3% 4.5% Ο 66.5 38.0 34.7 33.8 2016 ~3Q 2013 2014 2015



Quarterly Overview

[Unit : KRW bn.]			
	2016 3Q	2016 2Q	2015 3Q
Revenue (%Q/Q)	102.2 (-20.2)	128.0	145.6
Operating Income (%Q/Q)	-1.6	25.5	21.0
Net Income (%Q/Q)	-4.9	23.4	19.6

