Investor Relations 3Q FY17



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 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 Inform	mation		Ownership				IPO In	forma	tion
	Park, Koo WounFormer nuclear power advisor,		KEPCO	As of DEC 31, 2016]	Shares Outst *Common sha	5		38,220,00	00
CEO & President	POSCO E&C				Listing D	Date	Dece	mber 14	l, 2009
	Former Senior Vice President, KEPCO E&C				Offered Sec	curities		7,644,00	0
Foundation Date	October 1, 1975			KAERI* 2.06%	[Unit : KRW]			Divide	nds
Employees	2,242 (As of June. 30, 2017)	0.50% Employee		2.06%	FY	2013	2014	2015	2016
Business Area	Power plant design & engineering, etc.	Ownership	31.67% Retail Investors		Dividend Propensity*	45%	40%	25%	24%
					Amount (per a share)	406	575	200	110

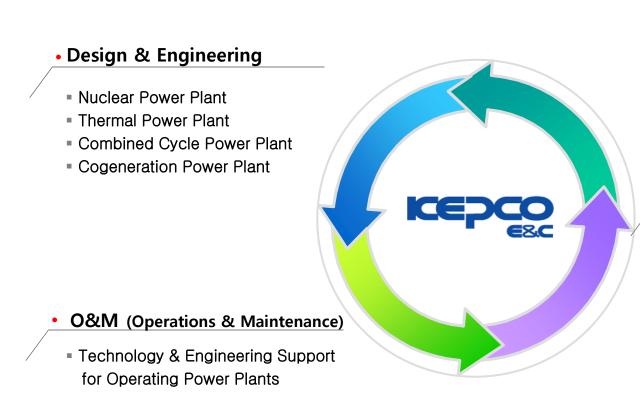
* KAERI - Korea Atomic Energy Research Institute

* Dividend Propensity - Dividend/Net Income *100



Business Overview

Business Area



• Energy Solution Package

- Funding
- Consulting
- Procurement
- Post-management

• Environmentally-friendly Biz.

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

• National Defense Project.

Government's task

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

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 1400	UAE #1,2,3,4	Mar '10 ~ May '20	KEPCO	
	Shin-Hanul #1,2	Dec '07 ~ Dec `16	KHNP	
SMART	Shin-Kori #3,4 PPE BOP	Aug '06 ~ May '16 Jun '16 ~ Nov '18	KHNP KAERI	

Major Project Experience

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
1000x2	Taean #9,10	Jun '11 ~ Mar '17	Korea Western Power
1000x2	Shin-Boryeong #1,2	Jan '11 ~ Sep '17	Korea Midland Power
1000x2	Samchok #1,2	Sep '09 ~ Sep '17	Korea Southern Power

Others

Reacto	or Project	Project Period	Client
Other	APR1400 US NRC DC design/licensing support - Stage 2	Aug '14 ~ Oct `17	KHNP





Business Area – O&M



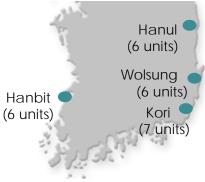
Contribution to the Improvement of the Operating Power Plants' Operability, Efficiency and Safety



• Nuclear Power Plants in Operation in Korea

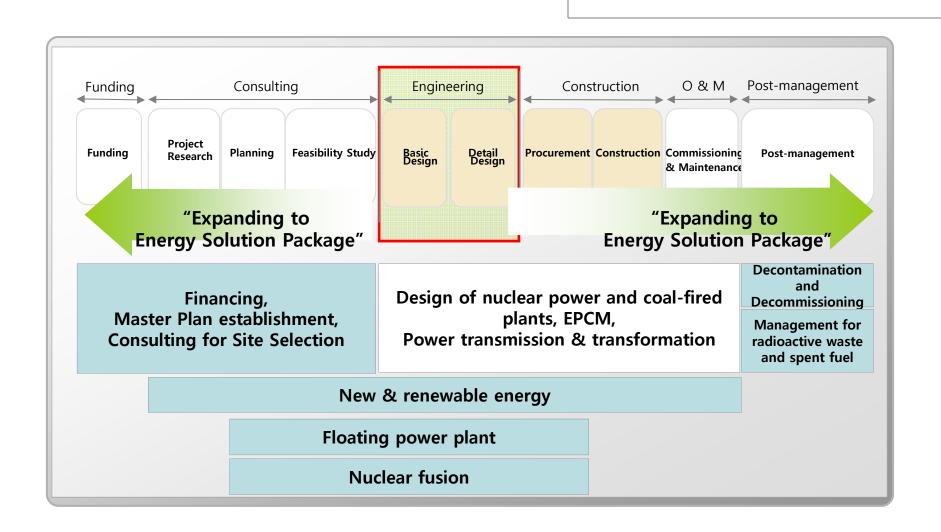
Reactor	r Project	First Power	Design
APR 1400	Shin-Kori #3	2016	KEPCOE&C
OPR	Shin-Wolsung #1,2	2012 / 2015	KEPCOE&C
1000+	Shin-Kori #1,2	2011 / 2012	KEPCOE&C
	Hanul #5,6	2004 / 2005	KEPCOE&C
OPR	Hanbit # 5,6	2002 / 2002	KEPCOE&C
1000	Hanul # 3,4	1998 / 1999	KEPCOE&C
	Hanbit # 3,4	1995 / 1996	KEPCOE&C-WEC
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	Bechtel-KEPCOE&C
	Kori #3,4	1985 / 1985	Bechtel-KEPCOE&C
	Kori #1,2	1978 / 1983	WEC-Gilbert

*The Uljin was renamed Hanul *WEC – WestingHouse Electric. *AECL – Atomic Energy of Canada Limited





Expanding its business areas to the overall value chain, including pre- and post-management of power plants

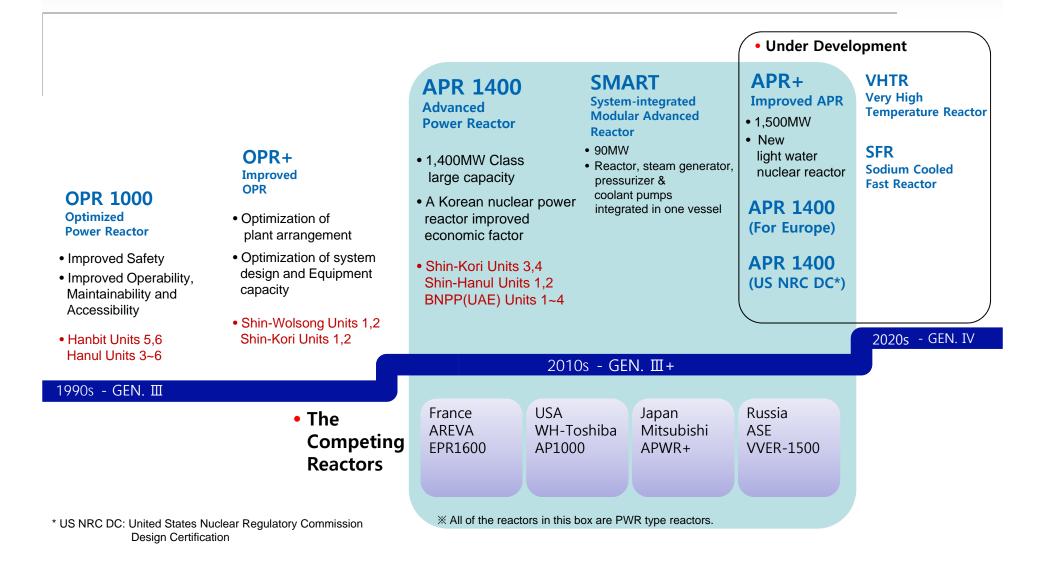


3. Technology

Technology - Nuclear Power Plant



Korean Nuclear Power Plant Design Development

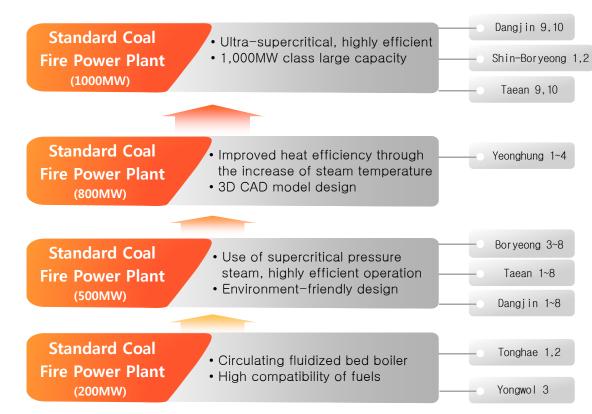




3. Technology



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>



Construction & operation of platform for smart power plant



Nuclear power plans - Small Units & Others

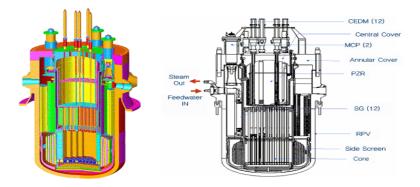
SMART export plan

• 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
- Year 2017 : Performing PPE(Pre-Project Engineeing) to build two SMARTs 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



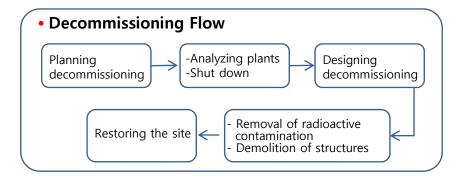
Plant	Commercial operation	Planned close	
KORI #1	1978	2017	license extended 2007 → 2017
Wolsung #1	1983	2012	license extended 2012 → 2022
KORI #2	1983	2023	
KORI #3	1985	2024	
KORI #4	1986	2025	

• 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.





Finding for new growth engine



Launch of NPP Decommissioning Business Department and Energy Division

- To respond to new energy policy of the government
 - The phase-out of nuclear power plants, decommissioning the Kori-1 reactor and the suspension of building new coal-fired plants.
 - Established Energy Division and NPP Decommissioning Business Department to create new sustainable growth engine.
- To establish NPP Decommissioning Business Department
 - Focusing on post-management of nuclear power plant such as decommissioning and managing radioactive waste and spent fuel.
 - Acquired decommissioning-related technology by "decommissioning technology transfer agreement" with PreussenElektra Gmbh Concluded in 2016.
 - Accumulating technical know-how by participating in Kori-1 decommissioning and advancing into overseas market
- To organize Energy Division
 - Leading the energy market by meeting the demand to lower fine dust level and to respond to "Paris Agreement(2015)"

