Investor Relations 2011_3Q

Humaneering KEPCO E&C

We are trying to harmonize humanity, environment and engineering



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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 35 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 energy-related business, environment-friendly business, etc.

Corporate Infor	rmation		Ownership			IPO Inf	ormation
CEO & President	An, Seung Kyoo (Former Vice Chairman, Hyundai Engineering)		[As of 77.9%	Jun 27, 2011]	Shares Outstandin (Common shares 100%)	5	220,000
Foundation Date	October 1, 1975				Listing Date	Decemb	ber 14, 2009
Foundation Date					Offered Securities	7.6	44.000
Employees	2,112 (As of Sep 1, 2011)			ERI*	oncrea securite.	7,0	
Business Area	Power plant design &	1.7% Employee		2.1%	Year	2009	2010
	engineering, etc. Ownershi				Propensity to	F 0.0/	F00/
					Dividend	50%	50%

Business Overview



Business Areas

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 Nuclear 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, Ulchin Unit 3.

Nuclear Power Plant

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

Major Project Experience

Projects in Progress

Reactor	Project	Project Period	Client	
	UAE #1,2,3,4	'10.01 ~ '20.05	KEPCO	
APR	Shin-Ulchin #1,2	'07.12 ~ '16.12	KHNP	
1400	Shin-Kori #3,4	'06.08 ~ '14.09	KHNP	
OPR	Shin-Wolsung #1,2	'02.08 ~ '13.01	KHNP	
1000+	Shin-Kori #1,2	'02.08 ~ '11.12	KHNP	

*KHNP – Korea Hydro & Nuclear Power co. LTD.

Projects Completed

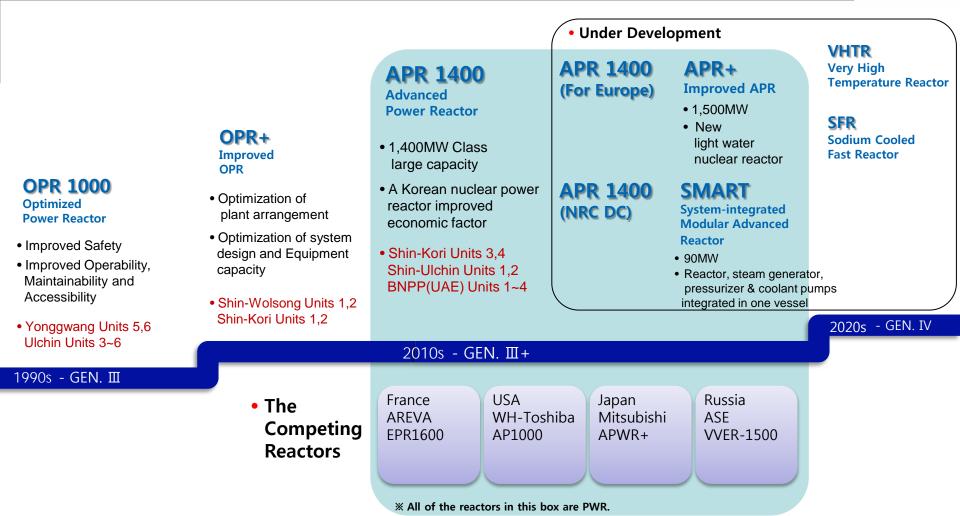
/	Reactor	Project	c	Completion Date	Design
		Ulchin #5,6		'04.07 / '05.04	KEPCOE&C
	OPR	Yonggwang	#5,6	'02.05 / '02.12	KEPCOE&C
	1000	Ulchin #3,4		'98.08 / '99.12	KEPCOE&C
		Yonggwang	# 3,4	'95.03 / '96.01	KEPCOE&C-WEC
	CANDU	Wolsung #3	3,4	'98.07 / '99.10	AECL-KEPCOE&C
		Wolsung	#2	'97.07	AECL-KEPCOE&C
		Wolsung	#1	'83.04	AECL-CANATOM

*WEC – WestingHouse Electric. *AECL – Atomic Energy of Canada Limited

Technology – Nuclear Power Plant



Korean Nuclear Power Plant Design Development





Strength of Korean Nuclear Power Plants

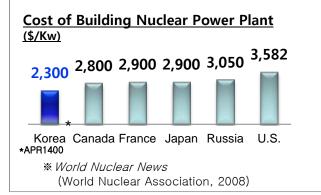


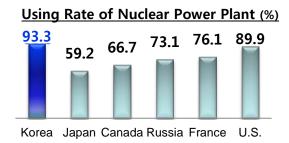
APR1400 - The best reliability, economic efficiency and operability



APR 1400 in Detail	PR 1400 in Detail <source :="" ;="" comparison="" other="" reactors<="" th="" with="" www.apr1400.co.kr=""/>				
	OPR 1000	APR 1400	EPR 1600		
Capacity (MWe)	1000	1,400	1,600~1700		
Design Life Time	40	60	60		
Seismic Design Basis	0.2g	0.3g	0.25g		
Refueling Interval (month)	12~18	18	18		
Construction Period (month)	Over 60	54	57		
Construction cost (\$/Kw)	-	2,300	2,900		

• The World's Most Economical and the Safest Reactor





※ Nucleonics Week. March 2009



※ IAEA Power Reactor Information System, March 2009

• Exporting technology to the world (Below is recent overseas projects)

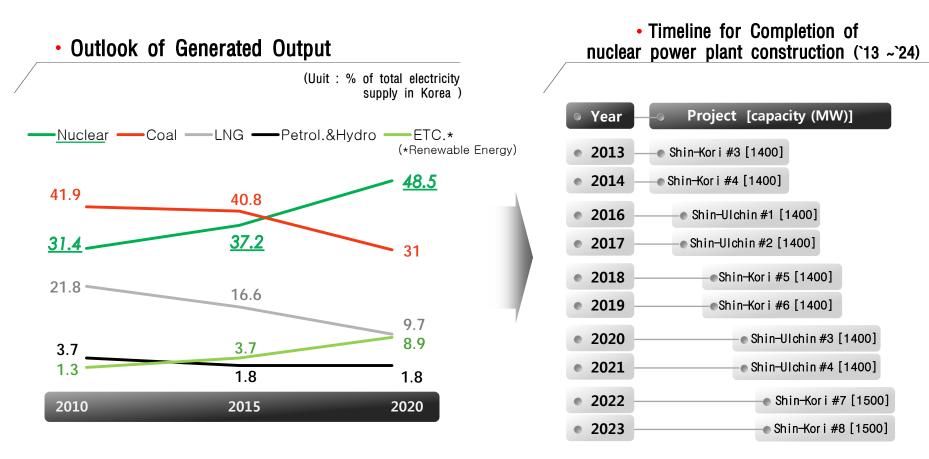
- Consulting services for site selection & evaluation for new NPP in Malaysia (Client : TNB)
- ITER Electrical Installation Support (Client : ITER)
- AP1000 COL Demonstration & Design Finalization (Client : WEC)
- Technical Support for Bechtel (Client : Bechtel)

Domestic Market Opportunities



Korean Government's Focus on Nuclear Energy

Long-term Electricity Supply in Korea



[Source: The Ministry of Knowledge Economy, "The 5th Basic Plan of Long-term Electricity Supply", 2010.12.28]

Business Area – Design & Engineering



Experiences of Coal fired/ CFBC Coal fired/ Combined Cycle/ Cogeneration Design

A ALLE STORAGE AND

Thermal Power Plant

Services performed

- · Feasibility studies, environmental impact assessments, site survey
- Design standardization, basic and detail design of construction work
- Support for the purchase of equipment and materials
- Project management, supervision, test operation
- Quality assurance and control support
- Preparation, review and approval of documentation

Major Project Experience

• Projects in Progress

⁄0	Capacity	Project	Project Period	Client
	(MW) 1000x2	Taean #9,10	'11.06 ~ '17.03	Korea Western Power
	150 x3	Turkey Turfanbeyli	'11.04 ~ '15.02	SK E&C
	1000x2	Shin-Boryeong #1,2	'11.01 ~ '17.09	Korea Midland Power
	350 x2	Morocco Jorf Lasfar	'10.06 ~ '14.04	Daewoo E&C
	1000x2	Dangjin #9,10	'07.10 ~ '16.09	Korea East- West Power
	1000x2	Samchok #1,2	'09.09 ~ '16.03	Korea Southern Power
	300	Taean IGCC	'11.04 ~ '16.07	Korea Western Power
	500x2	POSCO CCPP #5,6	'08.04 ~ '11.09	POSCO E&C

Projects Completed

- Coal Fired Power Plant
 - 500MW 34 Units 800MW 4 Units

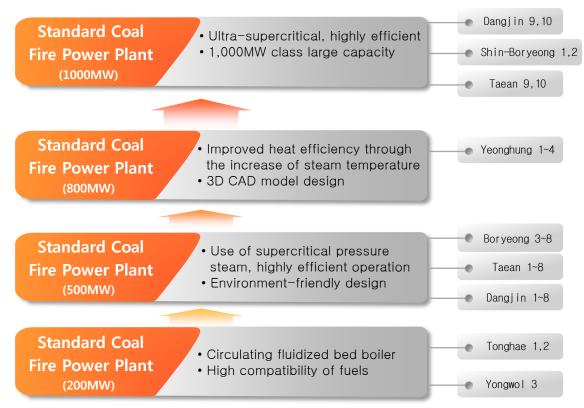
Large Scale *CFB Coal Fired Power Plant

- 200MW 2 Units 340MW 1 Unit
- Combined Cycle /Cogeneration
 - 26 Units

Technology - Thermal Power Plant



Coal-Fired Power Plant Design Development





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

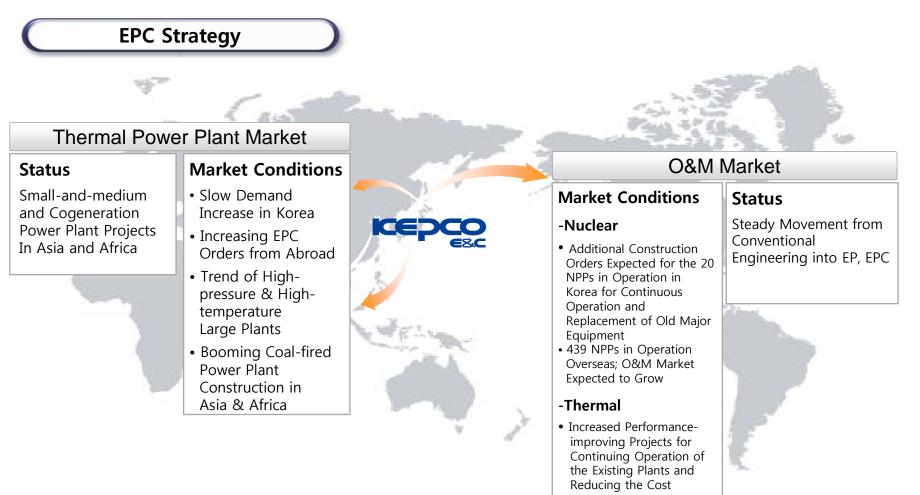


• Boryeong #3,4 – World Best Project Awarded <US, Electric Power International,1996>

EPC Business Expansion



Developing Overseas EPC Projects toward Global Top 5 Power EPC Leader



• Increasing Old Plant Facilities outside Korea

Business Area – O&M



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

O&M (Operation & 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

Major Project Experience

Recent Projects

- Technical support for license application to replace the steam generator for Unchin #1,2
- Technical consulting for license application to increase the output for Ulchin #1,2
- Improvement of facilities at Yeosu #2
- the other 118 small projects are in progress

Business Area – O&M



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

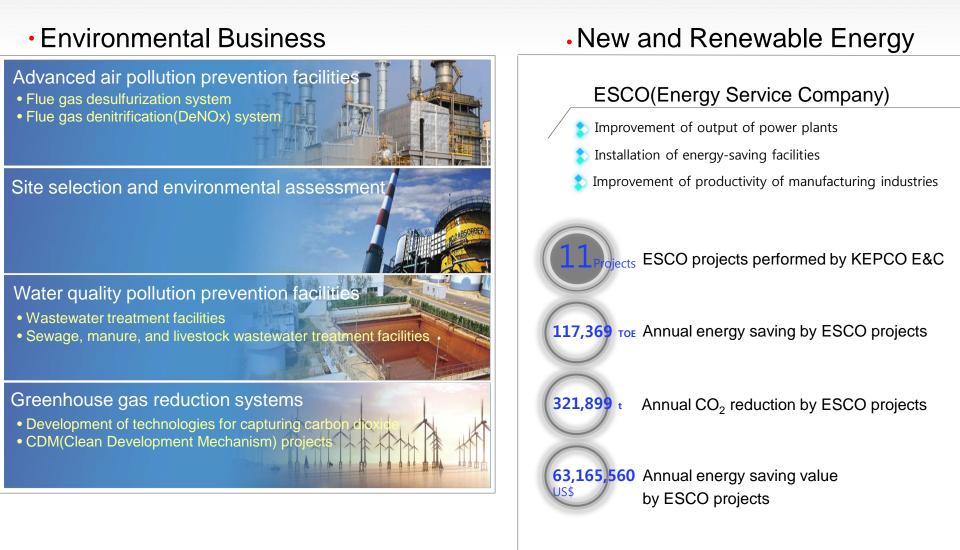
• Domestic Operating Nuclear Power Plants (21 units)

Plant		Capacity (MW)	Commercial Date	NSSS Supplier	Plant A/E	Model
	#1	587	78.04.29	WEC	Gilbert	
Kori	#2	650	83.07.25	WEC	Gilbert	
	#3	950	85.09.30	WEC	Bechtel/KEPCO E&C	
	#4	950	85.04.29	WEC	Bechtel/KEPCO E&C	
	#1	679	83.04.22	AECL	AECL	
Wolsung	#2	700	98.07.01	AECL/DOOSAN	AECL/KEPCO E&C	
	#3	700	98.07.01	AECL/DOOSAN	AECL/KEPCO E&C	
	#4	700	99.10.01	AECL/DOOSAN	AECL/KEPCO E&C	
	#1	950	86.08.25	WEC	Bechtel/KEPCO E&C	
	#2	950	87.06.10	WEC	Bechtel/KEPCO E&C	
Yonggwang	#3	1,000	95.03.31	DOOSAN	KEPCO E&C	OPR1000
55 5	#4	1,000	96.01.01	DOOSAN	KEPCO E&C	OPR1000
	#5	1,000	02.05.21	DOOSAN	KEPCO E&C	OPR1000
	#6	1,000	02.12.24	DOOSAN	KEPCO E&C	OPR1000
	#1	950	89.09.10	Framatome	Framatome	
	#2	950	88.09.30	Framatome	Framatome	
Ulchin	#3	1,000	98.08.11	DOOSAN	KEPCO E&C	OPR1000
UICHIII	#4	1,000	99.12.31	DOOSAN	KEPCO E&C	OPR1000
	#5	1,000	04.07.29	DOOSAN	KEPCO E&C	OPR1000
	#6	1,000	05.04.22	DOOSAN	KEPCO E&C	OPR1000
Shin-Kori	#1	1,000	11.02.28	DOOSAN	KEPCO E&C	OPR1000+

2-3. O&M•Environment Biz.

Business Area – Environmentally-friendly Biz.



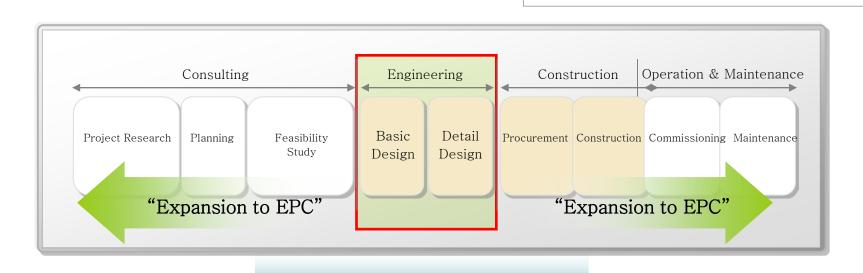


2-3. O&M•Environment Biz.

Business Area – PM/CM



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



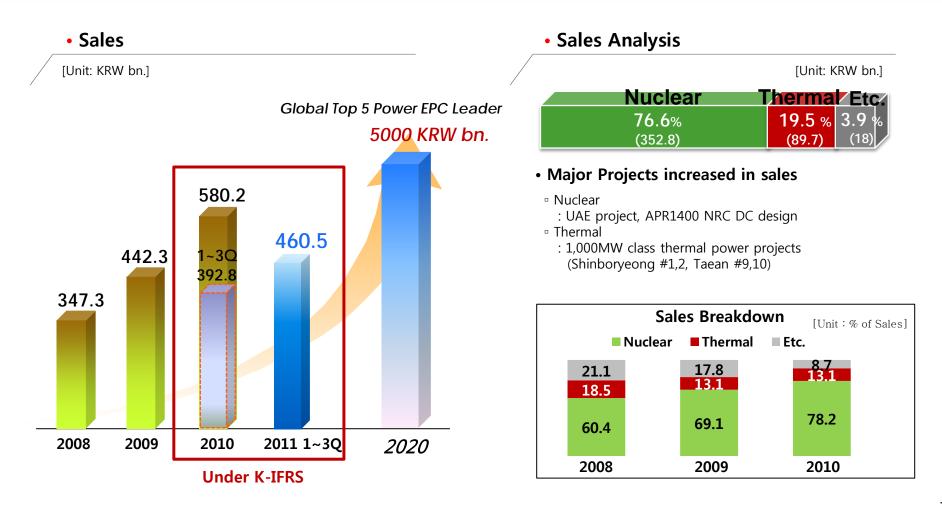
Involved Projects



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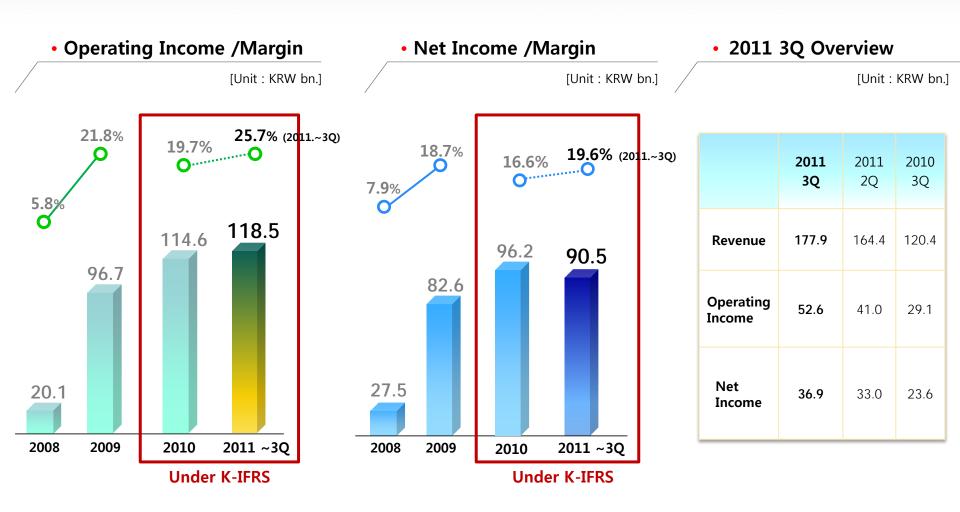
Financials

2011 3Q Sales

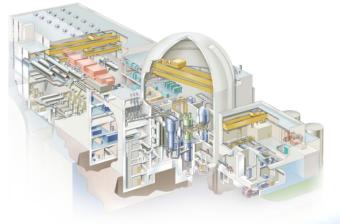


Financials

2011 3Q Summary



Vision 2020 – Global TOP 5 Power EPC Leader







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