Investor Relations 3Q13Y

KEPCO E&C

Global Power EPC Company



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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 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 Thermal EPC, energy-related business, environment-friendly business, etc.

Corporate Info	rmation		Ownership				IPO I	nform	ation
CEO & President	An, Seung Kyoo (Former Vice Chairman, Hyundai Engineering)		KEPCO 74.86%	[As of DEC 31, 2012]	Shares Outs (Common 100%	shares	3	38,220,00	00
Foundation Date	October 1, 1975			_	Listing D	Date	Dece	mber 14	, 2009
					Offered Sec	curities		7,644,00	0
Employees	2,341 (As of June 30, 2013)			XAERI* 2.06%					
Business Area	Power plant design & engineering, etc.	0.90% Employee	22.18%	2.00%	Year	2009	2010	2011	2012
		Ownership	Retail Investo	rs	Dividend Propensity*	50%	50%	70%	55%

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 Power Plants

- PM/CM
 - = SOC
 - Private SOC
 - Power Plants
 - International Plants

Business Area – Design & Engineering

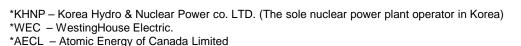


All of the local nuclear power plants have been independently designed by KEPCO E&C since 1993, Ulchin Unit 3.

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



*CANDU PHWR - CANada Deuterium Uranium Pressurised Heavy Water Reactor

Major Project Experience

• Projects in Progress

Reactor	Project	Project Period	Client
APR 1400	UAE #1,2,3,4 Shin-Ulchin #1,2 Shin-Kori #3,4	Jan '10 ~ May '20 Dec '07 ~ Dec `16 Aug '06 ~ Sep '14	KEPCO KHNP KHNP
OPR 1000+	Shin-Wolsung #2	Aug '02 ~ Jan '13	KHNP
	APR1400 US NRC DC design/licensing support APR+ design Development – stage 2	Mar '11 ~ Jul '13 Aug '10 ~ Dec '12	KEPCO KHNP

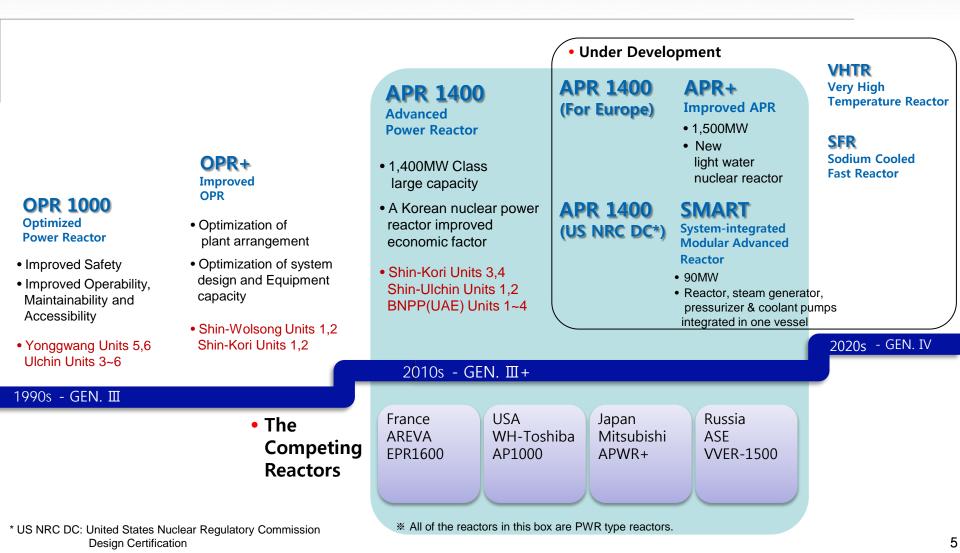
Projects Completed

Reactor	r Project	First Power	Design
OPR 1000+	Shin-Wolsung #1 Shin-Kori #1,2	2012 2011 / 2012	KEPCOE&C KEPCOE&C
	Ulchin # 5,6	2011 / 2012	KEPCOE&C
OPR 1000	Yonggwang #5,6	2002 / 2002	KEPCOE&C
	Ulchin #3,4 Yonggwang #3,4	1998 / 1999 1995 / 1996	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

Technology – Nuclear Power Plant



Korean Nuclear Power Plant Design Development





Strength of Korean Nuclear Power Plants

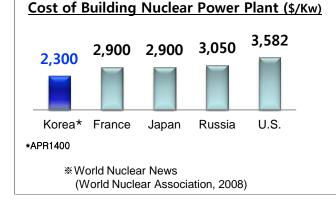


APR1400 - The best reliability, economic efficiency and operability

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APR 1400 in Detail	<source :="" ;="" comparison="" other="" reactors="" 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





Unplanned Capacity Loss Factor (%)9.10.41.62.41.6Image: Colspan="3">KoreaU.S.RussiaJapanFrance

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

* IAEA PRIS (Power Reactor Information System), A three-year average (2009~2011)

- Exporting technology to the world (Below is recent overseas projects)
 - ITER Electrical Installation Support (Client : ITER)
 - AP1000 COL Demonstration & Design Finalization (Client : WEC)
 - Technical Support for Bechtel (Client : Bechtel)

Market Opportunities



Focus on New Opportunities at Home & Abroad

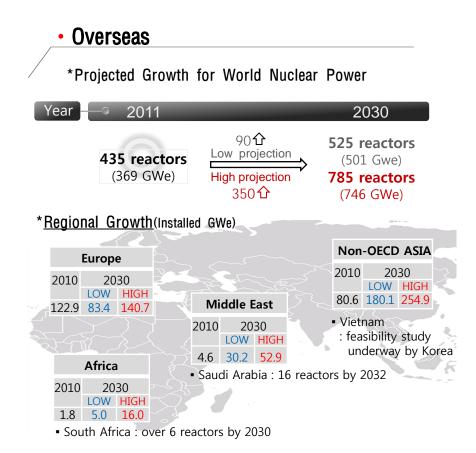
Growth of Nuclear Power

Domestic

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

• Year	Project [capacity (MW)]
• 2013	• Shin-Kori #3 [1400]
• 2014	Shin-Kori #4 [1400]
• 2017	Shin-Ulchin #1 [1400]
• 2018	Shin-Ulchin #2 [1400]
• 2019	• Shin-Kori #5 [1400]
• 2020	• Shin-Kori #6 [1400]
• 2021	• Shin-Ulchin #3 [1400]
• 2022	• Shin-Ulchin #4 [1400]
• 2023	Shin-Kori #7 [1500]
• 2024	• Shin-Kori #8 [1500]

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



(Source a IAEA Nuclear Technology Review 2012 a World Nuclear Association country briefings)

Business Area – Design & Engineering



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

- Alesia an

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 _____

* IGCC - Integrated Gasification Combined Cycle (Producing electricity by burning coal gas regarded as clean as natural gas) * CFB - Circulating Fluidized Bed Combustion Boiler

Major Project Experience

• Projects in Progress

Capacity		Project	Project Period	Client	
	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 (Including Procurement	_{.)} Apr '11 ~ Feb '15	SK E&C	
	1000x2	Shin-Boryeong #1,2	Jan '11 ~ Sep '17	Korea Midland Power	
	350 x2	Morocco Jorf Lasfar	Jun '10 ~ Apr '14	Daewoo E&C	
	1000x2	Dangjin #9,10	Oct '07 ~ Sep '16	Korea East- West Power	
	1000x2	Samchok #1,2	Sep '09 ~ Mar '16	Korea Southern Power	
	300	Taean *IGCC Pilot Plant	Apr '11 ~ Jul '16	Korea Western Power	

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

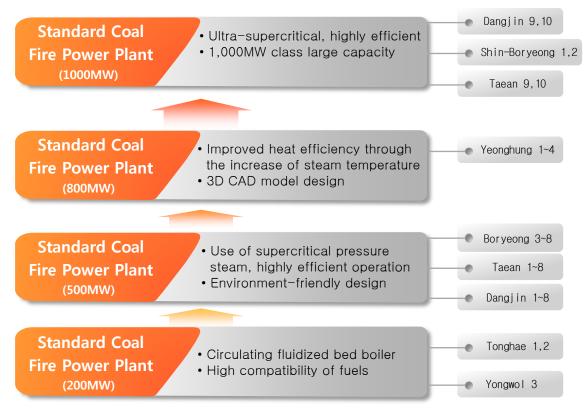
Combined Cycle /Cogeneration

38 Units

Technology - Thermal Power Plant



Coal-Fired Power Plant Design Development





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

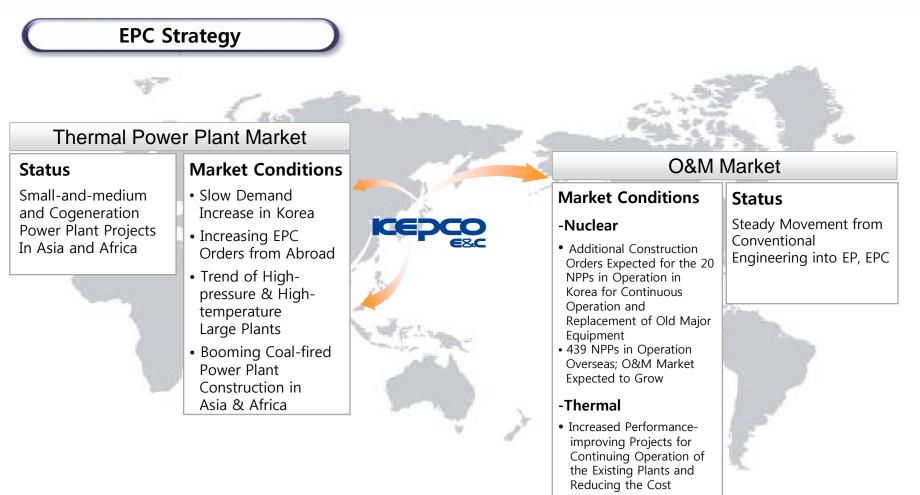


• Boryeong #3,4 – World Best Project Awarded <US, Electric Power International,1996>

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
- 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		
Wolsung	#1,2	679 /700	Apr `83 / Jul `98	ul `98 AECL/ AECL		PHWR	
5	#3,4	700	Jul `98 / Oct `99	AECL/DOOSAN	AECL/KEPCO E&C	PHVK	
	#1,2	950	Aug `86 / Jun `87	WEC	Bechtel/KEPCO E&C	PWR	
Yonggwang	#3,4	1,000	Mar `95 / Jan `96	DOOSAN	KEPCO E&C	PWR (OPR1000)	
	#5,6	1,000	May `02 / Dec `02	DOOSAN	KEPCO E&C		
	#1,2	950	Sep `89 / Sep `88	Framatome	Framatome	PWR	
Ulchin	#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	1,000	Jul `12	DOOSAN	KEPCO E&C	(OPR1000+)	



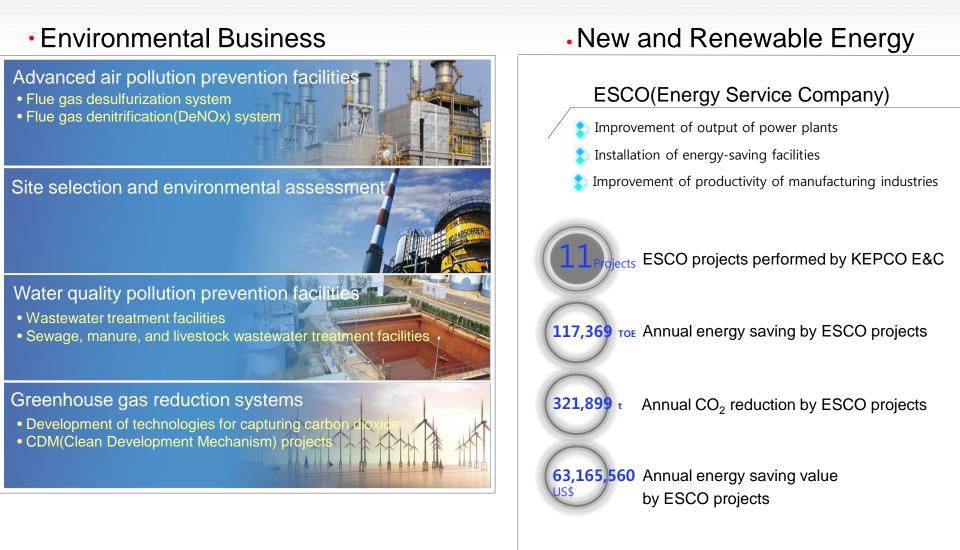
• Developing Canada PHWR O&M Market

- 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)

2-3. O&M•Environment Biz.

Business Area – Environmentally-friendly Biz.



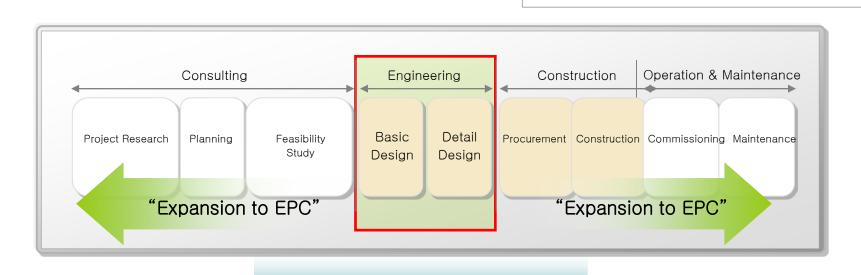


2-3. O&M•Environment Biz.

Business Area – PM/CM



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

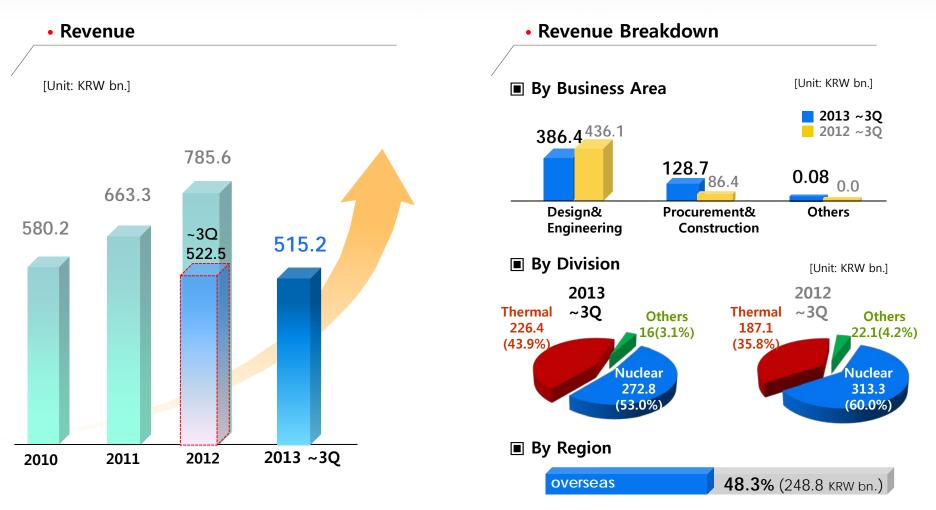


Involved Projects



Financials

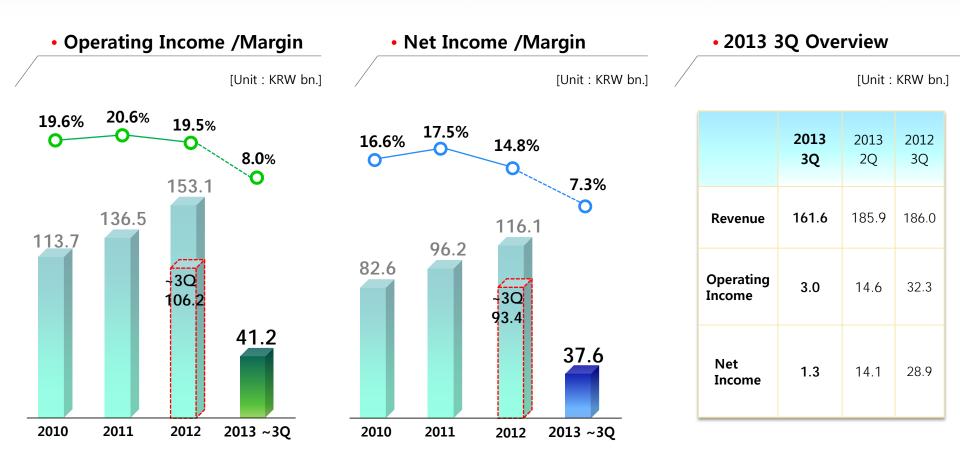
2013 3Q Revenue



* KEPCO E&C has adopted K-IFRS(Korean International Financial Reporting Standards) from FY `11 in line with the national policy. (FY `10 financial statements is also converted to "K-IFRS" for comparison with FY `11.

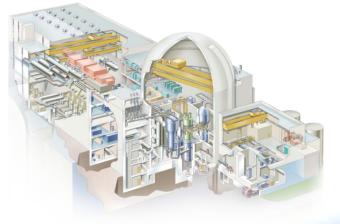
Financials

2013 3Q Financial Highlights



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Vision 2020 – Global TOP 5 Power EPC Leader







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