Experience & Capability of the Korean Nuclear Industry

October 6, 2015



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Overview of KEPCO



Korean Government

KEDCO

Government 's Share 51% Private/Foreign Investors' 49%

Asset	USD 155 billion
Revenue	USD 51 billion
Employees	45,000
Credit rating	Aa3, A+ (Moody's, S&P)

(As of Sep. 2015)



Group Structure





Domestic Facilities : Generation





Total : 96,831 MW

(As of July, 2015)

(Year of 2014)

Overseas Business





Capabilities of Korean Nuclear Industry

Nuclear Power Plants in Korea





Total Solution Provider





Strength of Korean Nuclear Industry



ICEDCO

40 years of continuous Construction & Operation Experience









Construction Cost

- (1000MW) 18% construction period reduction
 - (APR1400) optimized construction period (anticipated)
- (1000MW) 30% construction cost reduction
 (APR1400) competitive construction cost (anticipated)

Robust Supply Chain





Abundant Nuclear Human Resources



(Unit: Individuals)

Equipment Design & Manufacturing

3,500

Operation & Maintenance **6,400**

Design & Engineering

Nuclear Support (R&D, QA, Nuclear Safety, HRD) **8,000**

> Nuclear Administration (PA, Promotion, Insurance)

> > 3,500

Highly experienced 30,000 human resources

Construction & Project Management

3,900

Systematic Nuclear Training System



caden

Complementary training programs operated by Academia, Industries and R&D & Regulation authority



Stable Supply of Nuclear Fuel

Sufficient fuel fabrication capacity

DescriptionDemandCapacityPresent880950

※Prospective capacity of fuel fabrication : 1,200 MTU/Y by 2020

- Competent in fabricating both PWR & PHWR Fuels
- Capable of sharing fuel fabrication technology
- Securing alternative supplier





Customized Localization



Supporting progressive and phased localization

Cooperation Program



Equipment Manufacturing



Construction



Engineering



Human Resource Development



Introduction of UAE BNPP

Overview of UAE Barakah NPP Project



UAE BNPP project

- Owner : ENEC (Emirates Nuclear Energy Corporation)
- Prime Contractor : KEPCO
- Contract signed in December 27, 2009
- Scope of Supply
 - APR1400 x 4 units (5,600MW) + Nuclear Fuel (initial core + 2 reloads)

Target Completion Date : May 1, 2017 (Unit 1)



Project Structure





Status of Project Implementation





KEPCO, Reliable Long-term Partner

Benefits from Cooperation with Korea





KEPCO, A Reliable Long-term Partner for Brazilian Nuclear Power Program

GS, Global Lead uclear Powe



EPCO International Nuclear Graduate Scho

TFCO International

Student Oath

Student Dath

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Muito Obrigado