

The 51st JAIF Annual Conference











April 10, 2018



**KOREA HYDRO & NUCLEAR POWER CO., LTD** 

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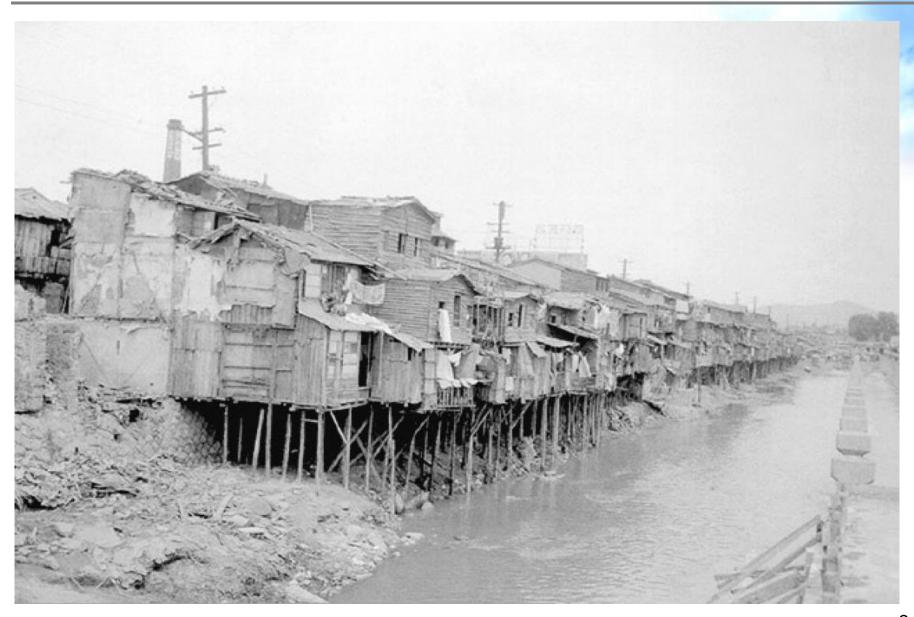


























## Introduction of Nuclear Power

- · Turnkey Approach
- · Led by foreign suppliers

#### Promotion of Localization

- · Non-Turnkey Approach
- · Joint implementation
- · Localization plan

#### Technology Self-Reliance

- OPR1000
- · Led by local suppliers

#### Technology Advancement

- APR1400
- · Export to UAE

#### Technology Renovation

- Development of APR+, EU-APR, APR1000
- Design Certification in US and Europe



#### **US-APR**



NRC Design Certification in process

#### **APR1400**



Туре	PWR
Life	60 Years
Output	1,400 MWe
Seismic	SSE 0.3g

#### **EU-APR**



Туре	PWR
Life	60 Years
Output	1,500 MWe
Seismic	SSE 0.3g

> EUR Certification

## •

#### **APR1000**



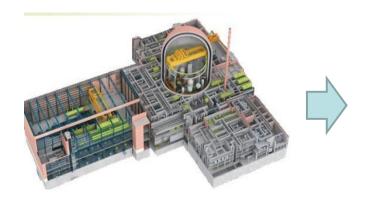
Type	PWR
Life	60 Years
Output	1,050 MWe
Seismic	SSE 0.3g

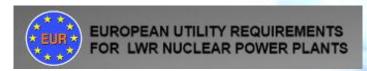
#### **OPR1000**



Туре	PWR
Life	40 Years
Output	1,000 MWe
Seismic	SSE 0.2g





































**EU-APR** 







**US-APR** 

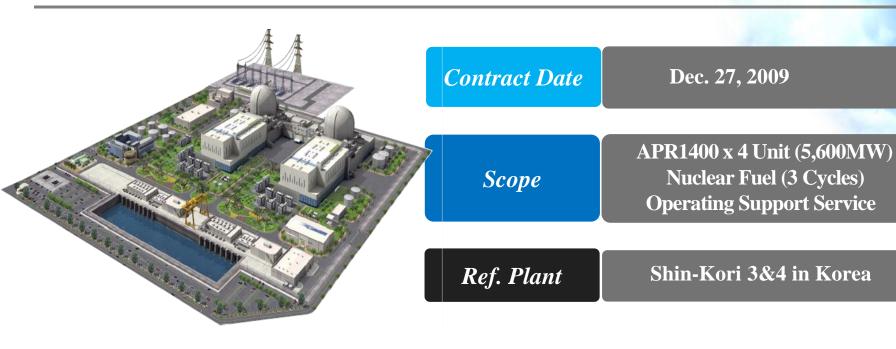


US NRC Design Certification



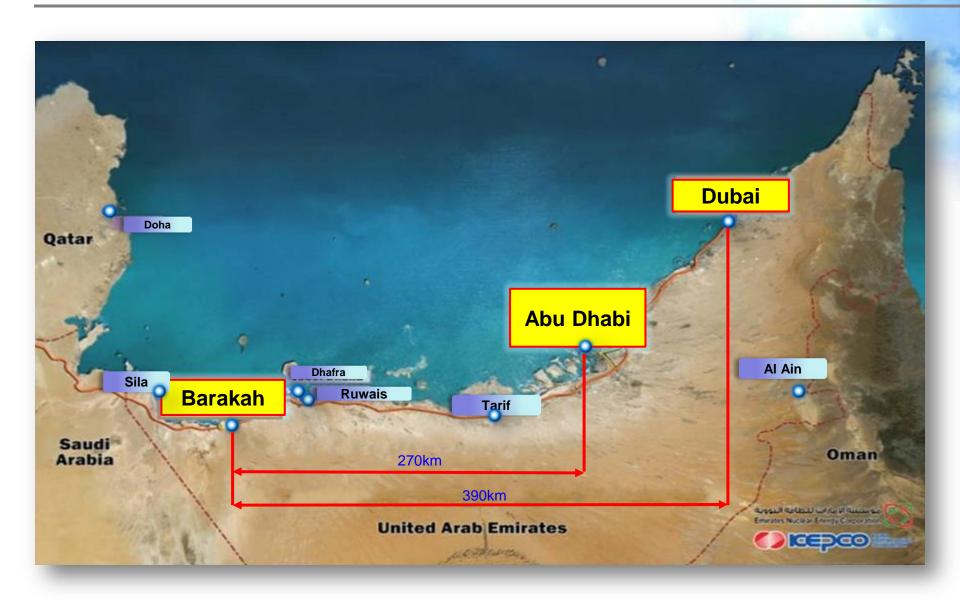






































My dear friend Moon Jae-in, President of Korea, and I today viewed completion of 1st power plant in Barakah Nuclear Energy Plant project. All thanks are due to President, our Korean friends & to joint efforts that have resulted in1st stage of this giant project being completed.















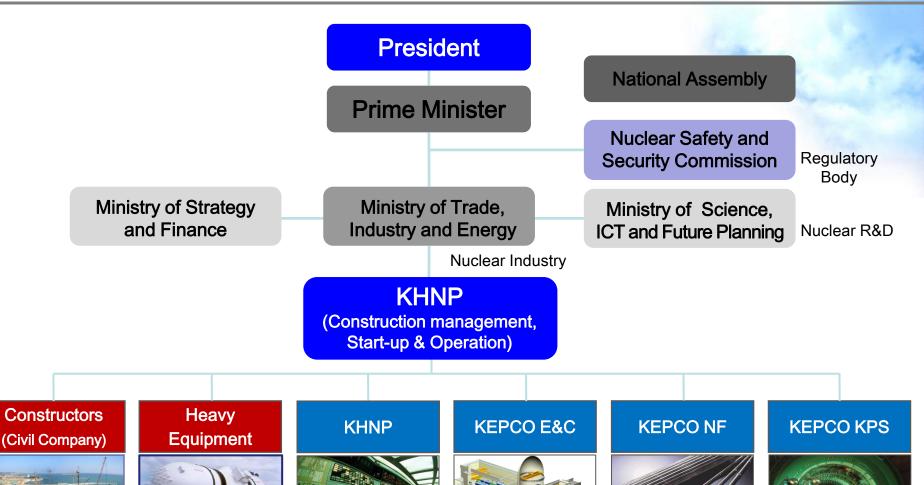
#### **Team Korea**

Equipment

Supply

Construction





Maintenance

Operation

Design &

**Engineering** 

**Nuclear Fuel** 

Supply

#### Team Korea - KHNP



**Establishment** 

April 2, 2001, spin-off from KEPCO

**Business** 

Nuclear, Hydro, Pumped Storage, Renewables

Staff

**12,306 Persons** 

**Assets** 

47 Billion USD

Nuclear

Op. unit : **24** 

Capacity 21.7 GW

Hydro

Op. unit: 35

Capacity **0.607** GW

Pumped Storage

Op. unit : 16

Capacity 4.7 GW

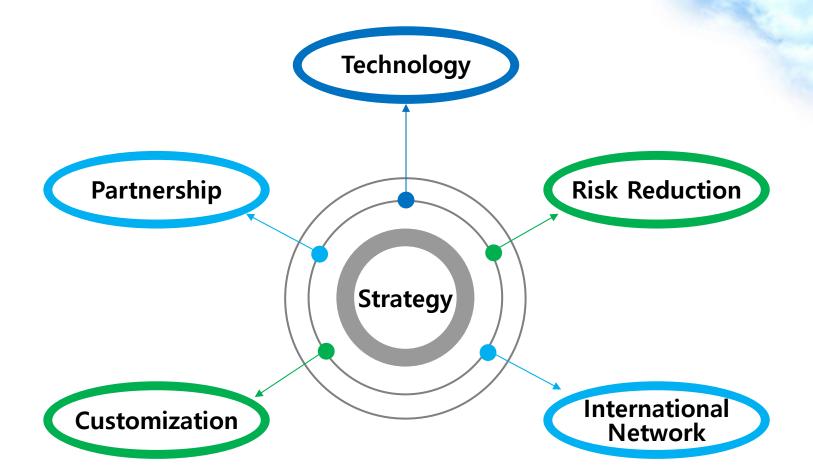
Renewable

Op. unit : **7** 

Capacity **0.115** GW

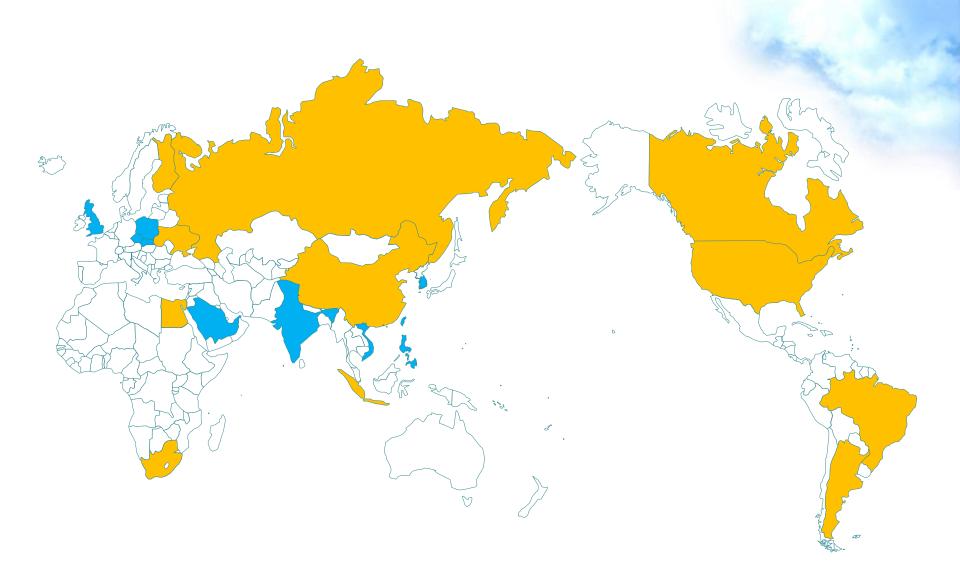
## NPP Export Strategy – Principal Directions





## **KHNP's Presence**







# Thank you for your attention!

