



Introduction of KHNP & Korean Nuclear Power Industry

Energetické Trebicsko-KHNP
Round Table
Hotel Atom, Trebic



24 May 2017

The Republic Of Korea



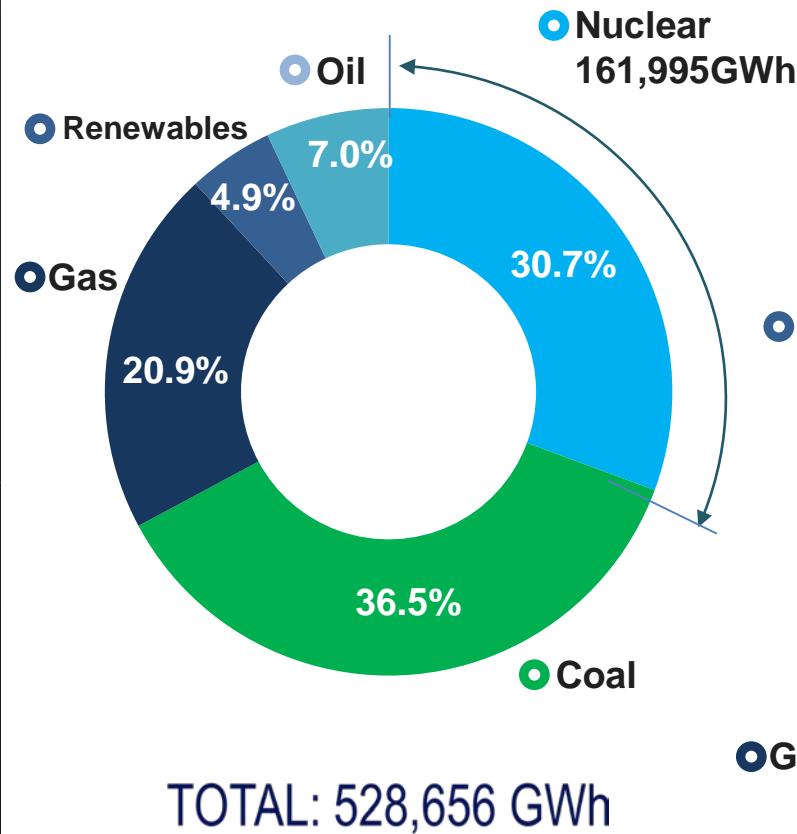
Location	East-end of the Asian continent
Population	48 million
Capital	Seoul
Area	99,720km ²



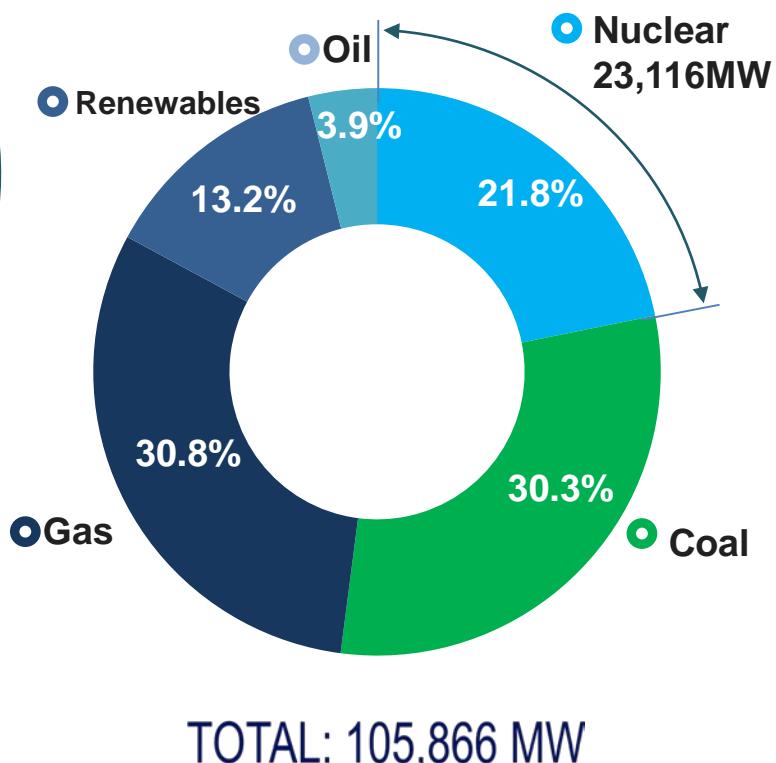
Electricity Mix

Nuclear power accounts for about 30.7% of gross electricity generation

Electricity Generation



Installed Capacity





KHNP Overview

Korea's Only Nuclear Power Company with its Business ranging from Operation and Construction of NPPs to Development of Commercial Reactors

Establishment

April 2, 2001, spin-off from KEPCO

Business

Nuclear, Hydro, Pumped Storage, Renewables

Staff

11,513 Persons

Assets

43 Billion EUR

Credit Rating

AA (S&P), Aa2 (Moody's)



Nuclear

Op. unit : 25

**Capacity
23.1 GW**

**Pumped
Storage**

Op. unit : 16

**Capacity
4.7 GW**

Hydro

Op. unit : 35

**Capacity
0.607 GW**

Renewable

Op. unit : 7

**Capacity
0.115 GW**

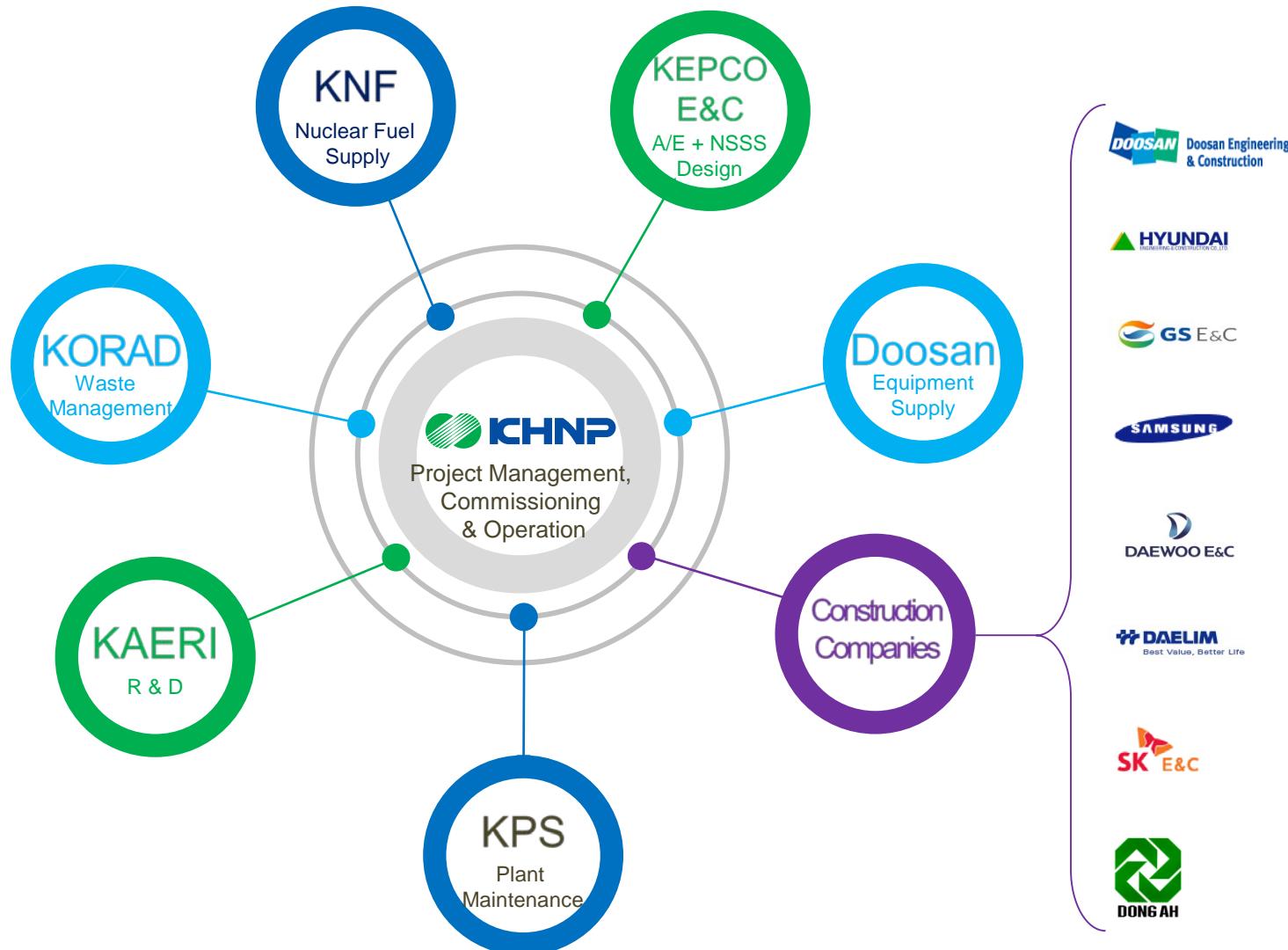


KHNP leads NPP Construction in Korea



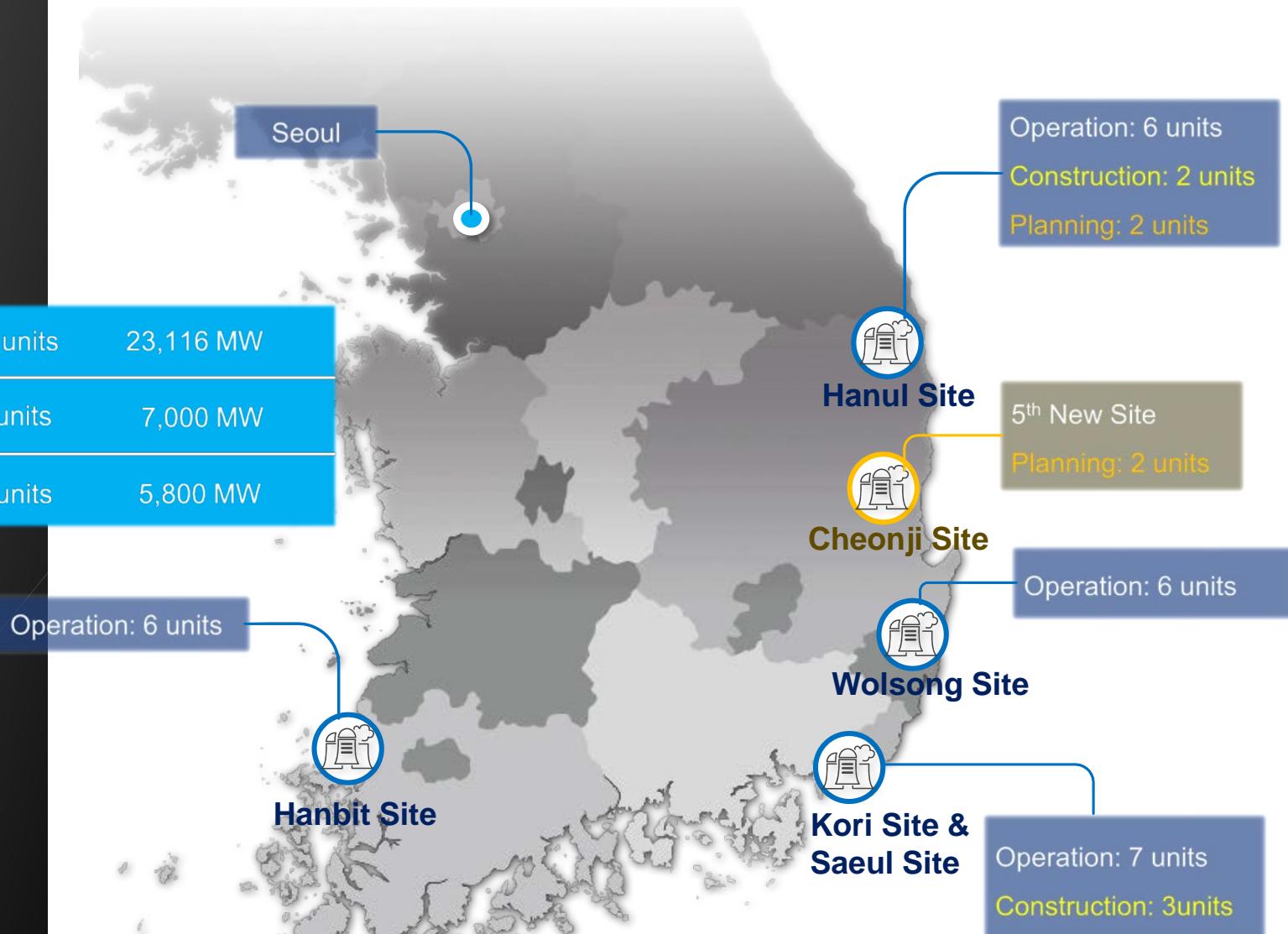
The Sole NPP Owner/Operator in Korea

KHNP's Role in
the Korean
Nuclear Industry



NPPs in Korea

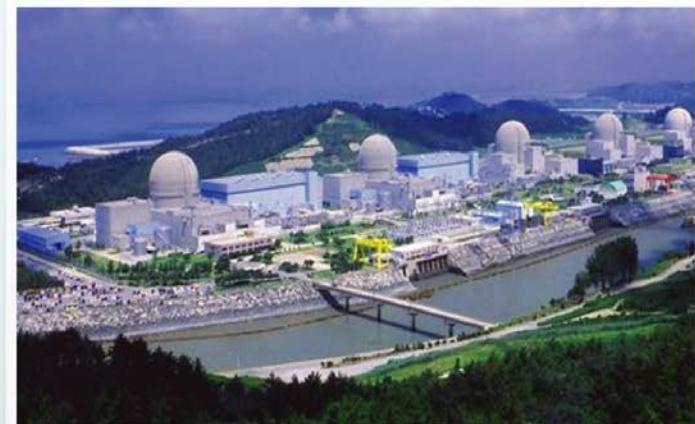
Operation	25 units	23,116 MW
Construction	5 units	7,000 MW
Planning	4 units	5,800 MW



Operating Plants



Kori 1,2,3,4 / Shin-Kori 1,2,3



Hanbit 1,2,3,4,5,6



Wolsong 1,2,3,4 / Shin-Wolsong 1,2

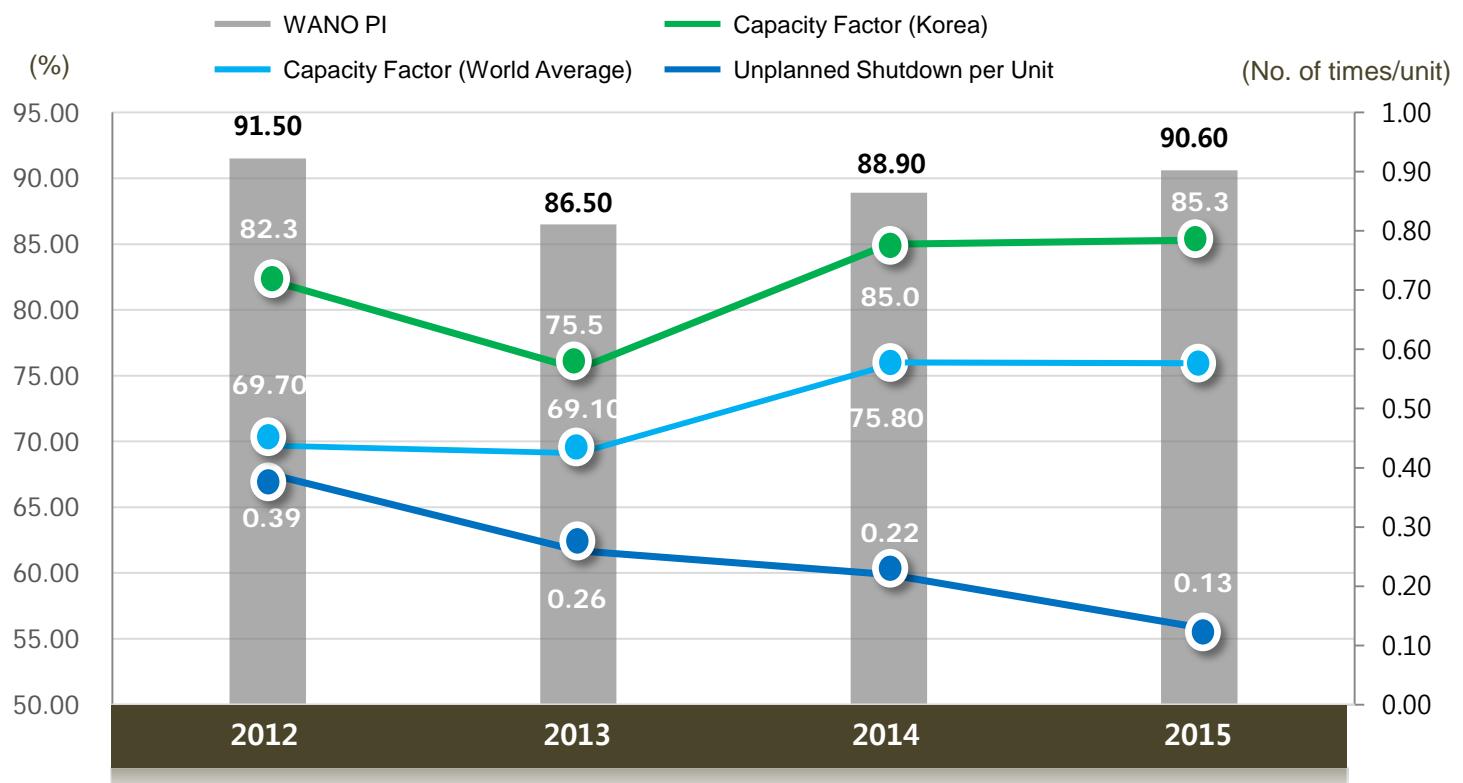


Hanul 1,2,3,4,5,6



Capacity Factor / Unplanned Shutdown / WANO PI

Operating Performance



Since 1998, Korea has maintained less than one unplanned shutdown per unit for a year.

Plants Under Construction



Shin-Kori 4



Shin-Hanul 1, 2



Shin-Kori 5, 6



Planning Plants(4)

The Source of Competitiveness

NPP	COD
HBN3	'95.03
HBN4	'96.01
HUN3	'98.08
HUN4	'99.12

NPP	COD
HBN5	'02.05
HBN6	'02.12
HUN5	'04.07
HUN6	'05.04

NPP	COD
SKN1	'11.02
SKN2	'12.07
SWN1	'12.07
SWN2	'15.07

NPP	COD
SKN3	'16.12

Construction period



Construction cost





Barakah Project in the UAE



NPP
Construction
in the UAE



Contract Date

Dec. 27, 2009

Project Model

Turn-key

Scope

APR1400 x 4 Unit (5,600MW)

Ref. Model

Shin-Kori 3&4





NPP Construction in the UAE

Barakah Project in the UAE



< The UAE BNPP Unit 1,2 >

- Progress rate : 87.8%
- Unit 1 Pre-core Hot Function Test completed : Oct. 2016

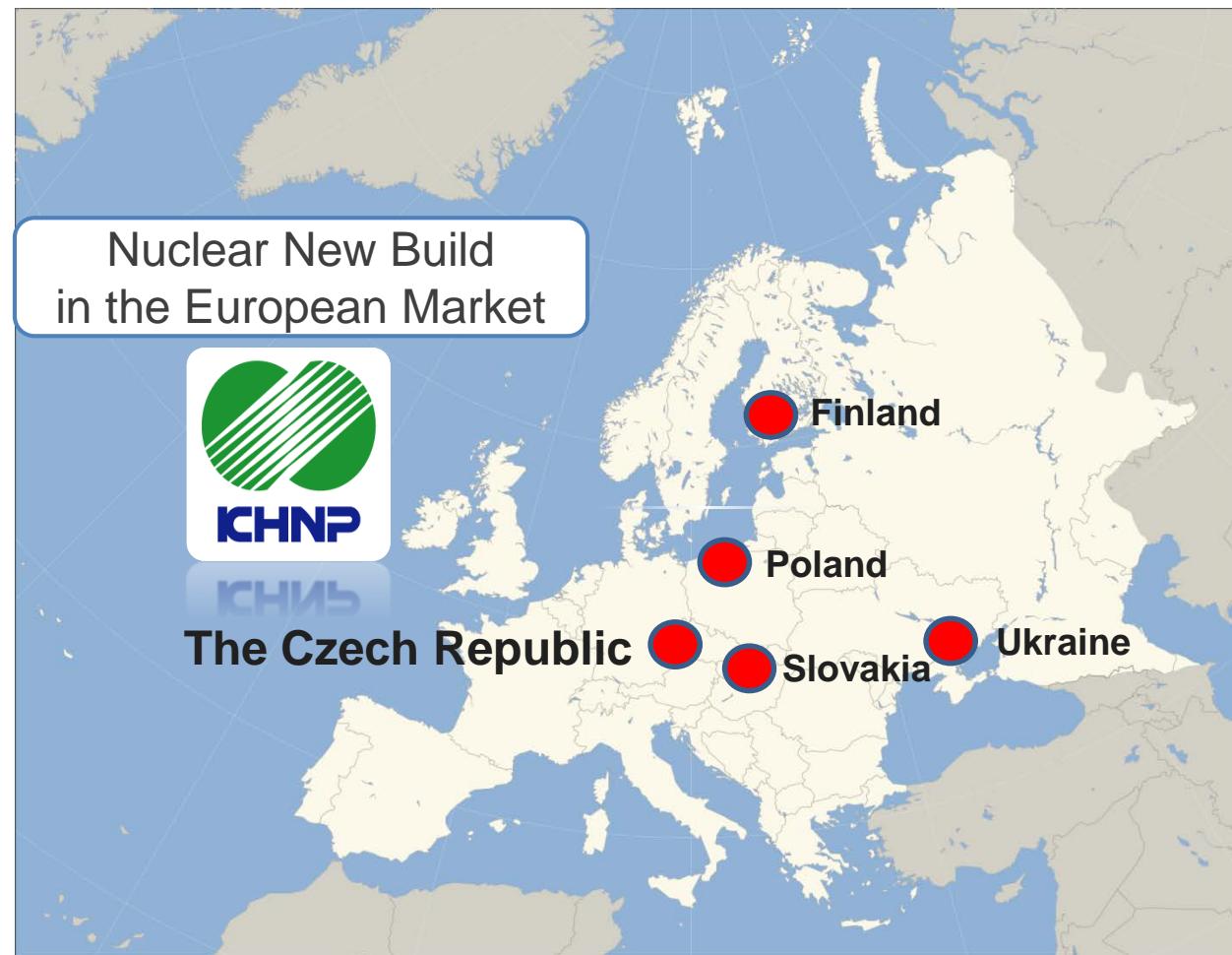


Reactor Supplier in Europe



KHNKP's Role in
the European
Nuclear Market

**KHNKP is the Korean Player in the
European Nuclear Plant Market**





Cooperation for World Market

Joint entry into new global energy markets together

Share accumulated
experience & Know-how

Make full use of
mutual resource

Practical Support
for technology





Thank You

