

[ROK] Country Report

Dec. 8 2015, Tokyo, Japan
The 16th Ministerial Level Meeting FNCA



Ministry of Science, ICT and
Future Planning



Ministry of Science, ICT and
Future Planning

Contents

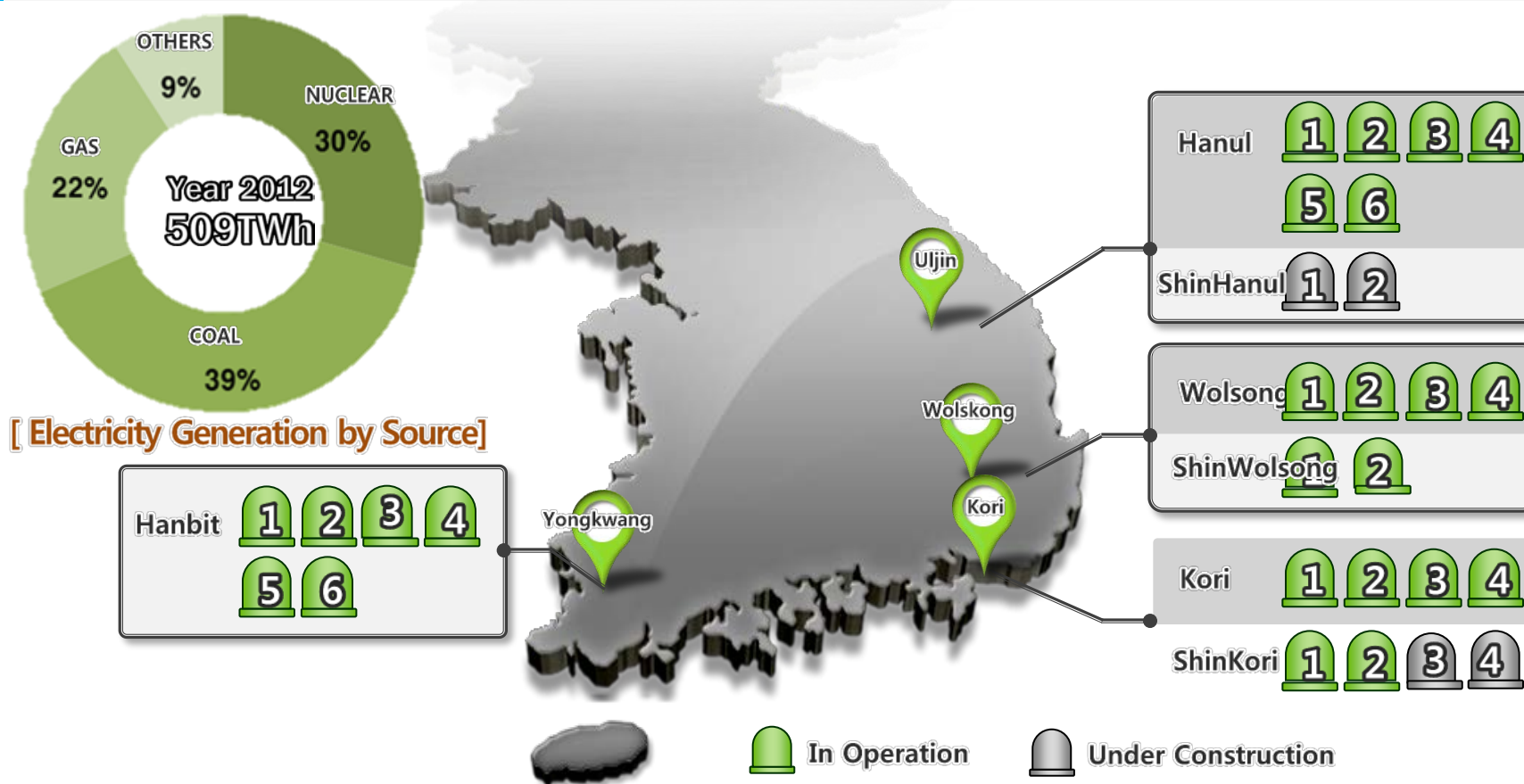
- 01. Current Status**
- 02. National Policy**
- 03. National Nuclear
Policy Trend**

1. Current Status



Current Situation of Nuclear Power Plants in Korea

- **In Operation** ➤ 24 Units (21,677 MWe)
- **Under Construction** ➤ 4 Units (6,600 MWe) – ShinKori 3-4, ShinHanul 1-2
- **Planned** ➤ 6 Units – ShinKori 5-6, ShinHanul 3-4, Chunji 1,2

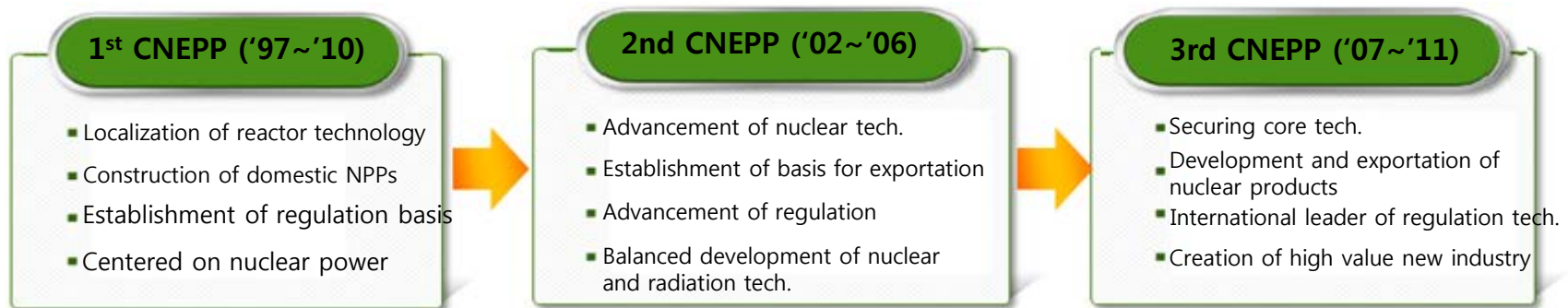


2. National Nuclear Energy Policy



Comprehensive Nuclear Promotion Plan

○ CNEPP has been established and implemented as the highest concept of nuclear policy since 1997



○ 4th CNEPP(2012- 2016) will focus on nuclear safety as the first priority since the Fukushima accident

Vision Realizing the World's best country model on nuclear technology

Objective³ Expediting new leap of nuclear technology



Strategy and tasks

Securing nuclear safety for public trust

Promoting of exportation through tech. innovation

Expanding nuclear utilization for stable elec. supply

Strengthening role in the int'l community as a nuclear advanced country

Creating new market for radiation by expanding strategic assistance

Strengthening virtuous circle of nuclear infrastructure

3. Korea's National Nuclear Policy Trend



Latest Nuclear Policy Issues

SMART Commercialization

- SMART (System-integrated Modular Advance ReacTor)
A single reactor pressure vessel contains major primary components
100MWe small integral reactor
- MOU between K.A.CARE and MSIP(Mar, 2015)
PPE between K.A.CARE and KAERI(Sep,2015)

Decommissioning Technology

- Permanent shut down of the Kori1 reactor in 2017
-> present a difficult challenge of decommissioning
- Need skills and techniques in the areas of dismantling, decommissioning and radioactive waste management

Spent Fuel Management

- The first saturation point for wet-storage spent fuel rods is coming in Korea.
- Established 'PECOS and formulated 'Basic Plan for Management of Spent Nuclear Fuel'

Thank you!

