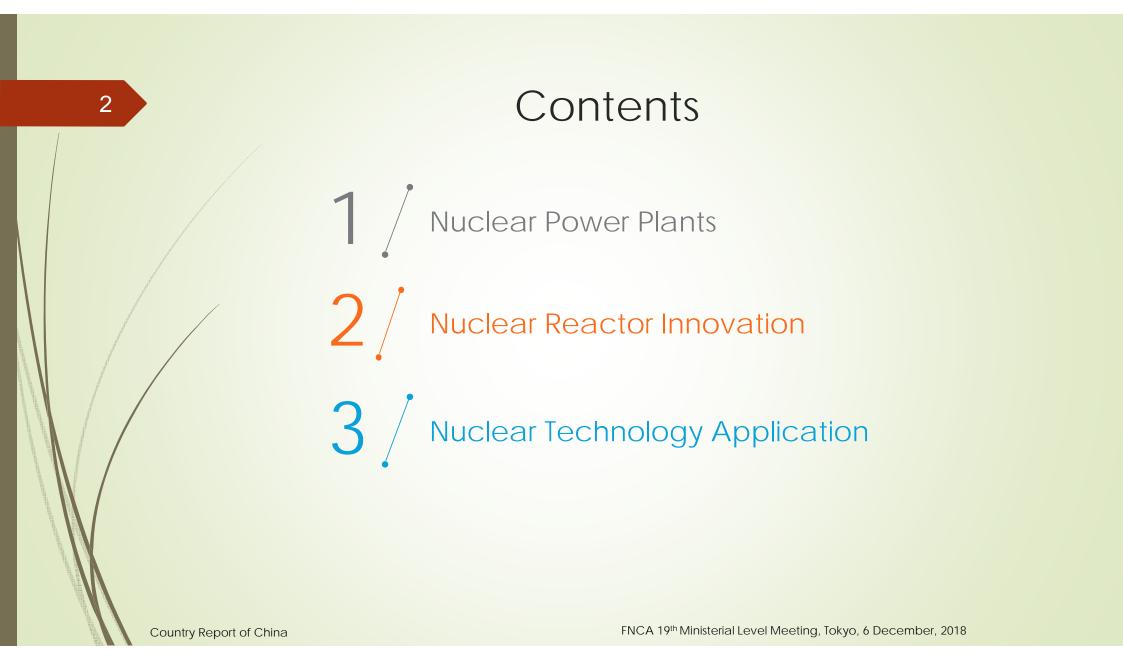
FNCA 19th Ministerial Level Meeting, Tokyo, 6 December, 2018

Country Report of China

LONG Maoxiong

China Nuclear Energy Association



Nuclear Power Plants in China



Country Report of China

3

Nuclear Reactor Technology Innovation

Gen III







Gen IV







Country Report of China

Application of Nuclear Technology in Agriculture

In last 60 years , irradiation technology has made remarkable contributions to the advancement of agricultural science and agricultural production in China

Mutation Breeding

- nearly 1/4 of the world

Agricultural Product Irradiation Processing

- annual irradiation > 200,000 tons

Nuclide tracer

Country Report of China

Application of Nuclear Technology in industry

X-ray non-destructive testing/CT equipment manufacturing and operation quality assurance

- petrochemical
- aerospace
- nuclear energy
- other industries

Country Report of China

Application of Nuclear Technology in life and health

medical linear accelerators ~2000 units

- nuclear medical imaging clinical diagnosis and treatment
- proton treatment
- heavy ion treatment
- high current proton cyclotron

Application of Nuclear Technology in public security

 X-ray, gamma ray and neutron detection for large-scale container and vehicle inspection

- aviation
- railway
- sea
- road

Country Report of China

Application of Nuclear Technology in environmental protection

- electron beam irradiation dyeing wastewater
 - 2000m³ per day
- electron accelerator industrial wastewater
 - close to industrialization
- electron beam irradiation desulfurization and denitrification of emission gases in thermal power plant

感谢聆听 敬请指教

Thank you for your attention.

Questions?



10