

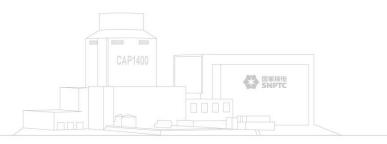


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- 1. Brief Introduction of CNEIDA
- 2. Nuclear Power Industry In China
- 3. Nuclear Power Industry Cooperation

# Content

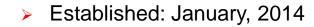


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# 1. Brief Introduction of CNEIDA

# CNEIDA— China Nuclear Energy International Development Alliance





> Members: 20





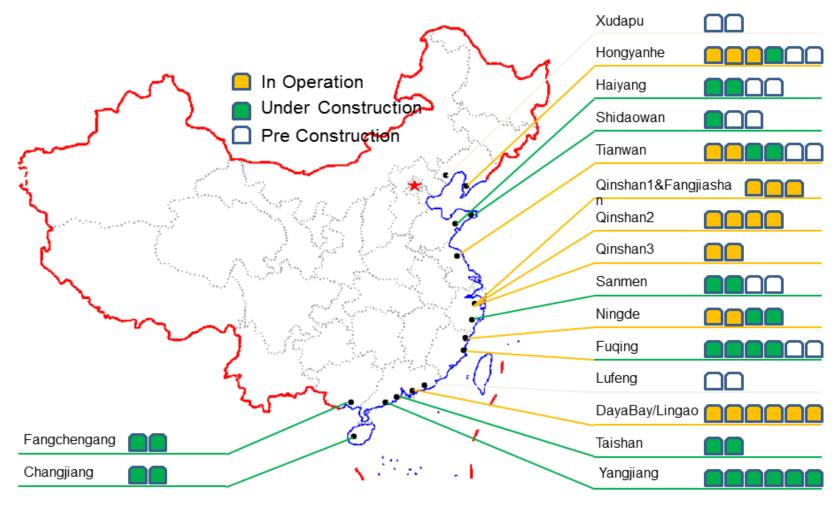
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China officially began its first nuclear power plant in 1970 when it made the decision to start the design of a 300 MWe nuclear power plant in Qinshan.

First concrete for Qinshan nuclear power plant was poured in March 1985 (FCD), and the plant was successfully connected to the grid in December 1991. This marked the beginning of China's history as a nuclear electric power generation nation.







China have 22 nuclear power units under operation (20.3Gwe), 26 nuclear power units under construction (28Gwe) and 16 in pre-construction now





- Each Government wishes to promote capability of material & equipment supply, construction, project management, operation and maintenance
- China established high level and integrated Gen III NPP supply chain through 40 years of continuous NPP Construction, rich localization experience is accumulated







The capabilities of the supply chain encompass overall design, manufacture, civil construction, installation, commissioning and startup, operation and maintenance.

The key categories of capabilities include:

- Integrated design and research and development system of nuclear island and civil island
- Top five heavy equipment manufacturing groups and a group of professional manufacturing companies shaping an integrated equipment manufacturing system
- Professional construction and project management organization
- > Integrated NPP operation and servicing organization



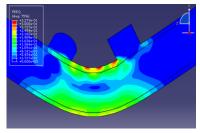


## R&D, Standardized Design



# **Characteristics of Supply Chain in China**

- Mature technology and process (over 30 years experience)
- World-Class hardware and facilities
- International QA system and standard (ASME/RCC/IEEE)
- Sufficient capability for 6-8 sets NPP with price advantage

















# **Construction & Management**

### **NPP Project Management**



High-caliber staffIMS platform

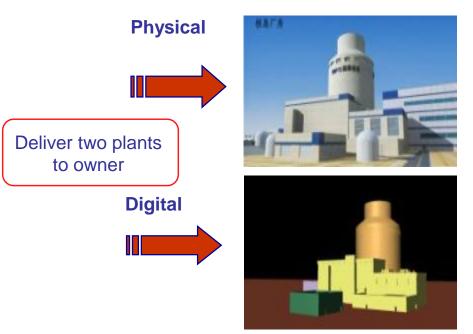
#### IMS System

- Carrier of project management experience
- Supporter of global collaboration in NP projects
- > deliver digital plants to owner.









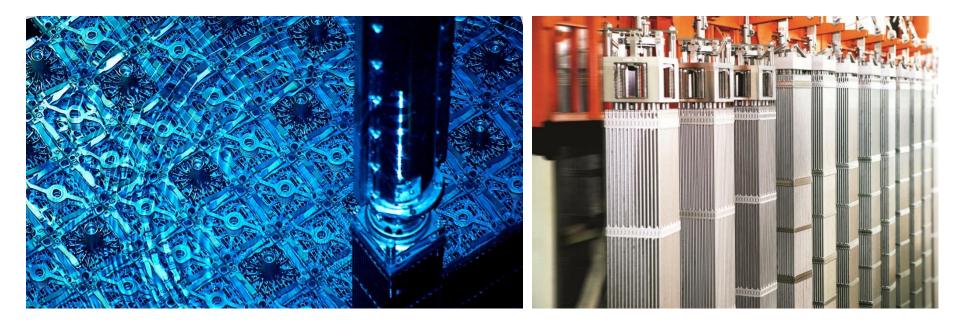


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2. Nuclear Power Industry In China

**Fuel Supply** 

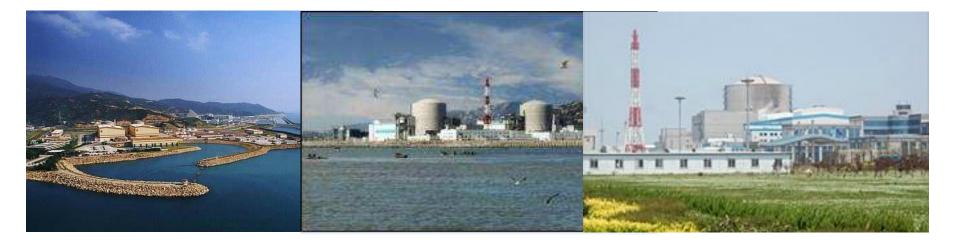
Strong capability on the research and development, construction and production of the whole nuclear fuel industrial chain.



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# Strong financial support

Chinese financial institutions highly valued the development of energy especially nuclear power industry, providing the loans to more than 80 percent of Chinese nuclear power assets.









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## 3. Nuclear Power Industry Cooperation

China are willing to cooperate with Brazil on nuclear power industry.

## **Cooperation in all aspects**

- ✓ Technology
- ✓ Management
- ✓ Equipment manufacture
- ✓ Fuel
- ✓ Financing

□ The cooperation between China and Brazil on the Nuclear Power Industry has Bright Future





