

Comments on *INTEGRATED RESOURCE PLAN 2010*

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About CGNPC

- China's state-owned enterprise
- Established in 1978
- Headquartered in Shenzhen, South China
- A clean energy group: nuclear, wind, solar and hydro
- Total assets 23 billion USD, net assets 7.9 billion USD (2010)
- Over 16000 employees
- 5 units in operation, 14 units under construction
- By 2020, 34GWe in operation, 16GWe under construction



Long Friendship with South Africa

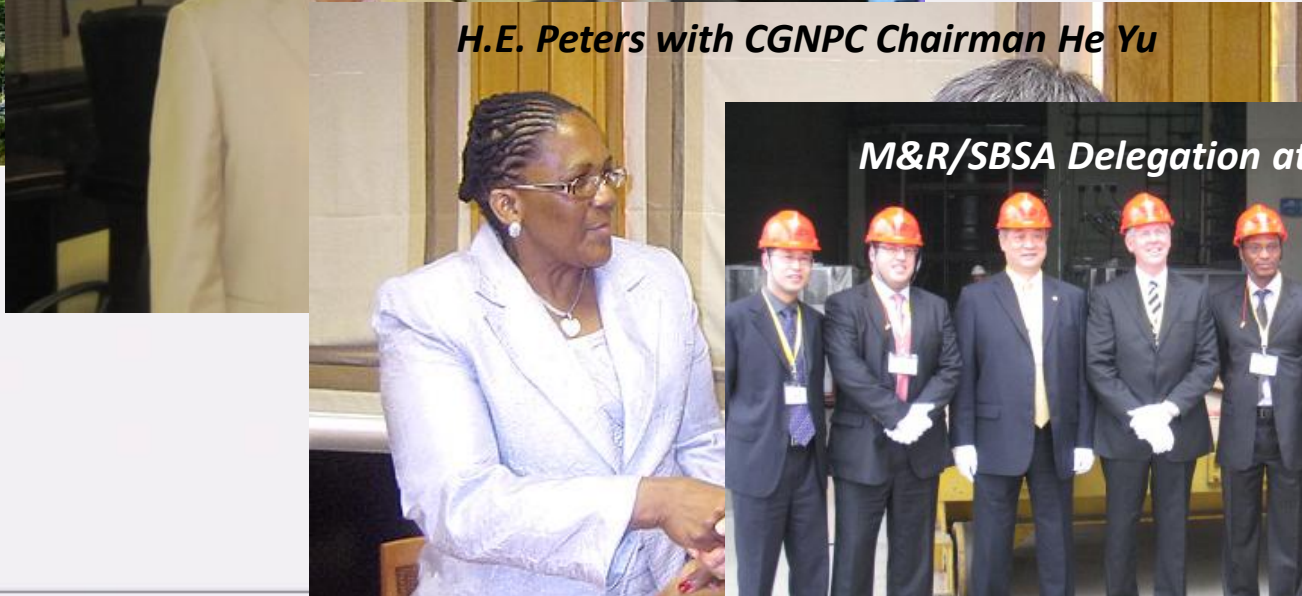
Daya Bay – Koeberg's sister plant



President Zuma with CGNPC Chairman He Yu



H.E. Peters with CGNPC Chairman He Yu



M&R/SBSA Delegation at Daya Bay



Core Technology: CPR1000+

- Gen II+: Proven, Reliable, Cost Competitive
- Currently 12 units of CPR1000+ are under construction by CGNPC
- Up to 85% localization percentage, backed by Shanghai Electric & Dongfang Electric, etc. →
- Unit Rated Output: 1085 MW
- Refueling Cycle: 18 months
- RPV Designed Life: 60 years
- Plant Control System: DCS
- Unit Availability: >90%
- Construction Duration: 52 months in China



New Build Programs

Ling Ao Phase II: the most recent CPR1000 unit completed



New Build Programs



← *Yangjiang Unit 1 dome handling*

*4 Units of Hongyanhe →
being built simultaneously*



CGNPC's Comments on IRP2010

Our View:

1. Nuclear: a practical solution to meet the energy demand

- Low-carbon commitment at the Copenhagen Conference
- The most mature and reliable base load energy option, with the least life cycle cost
- Meeting power supply demand and create more job opportunities
- Build up South Africa nuclear power industry with practical ramp up approach
- Supporting infrastructures, such as transmission and distribution system shall be in place in time to support the nuclear new build program

2. Start with Gen. II+: Safe, reliable, speedy and economical

- First new reactor on line by 2020, instead of 2023
- 4 CPR1000+ units in operation by 2024
- 6 1600MW or 10 1000MW Gen. III units in operation by 2030

3. Wind & solar power plan: a noble but tough goal

- Very aggressive in terms of the pace of the development

CGNPC's Comments on IRP2010

Our recommendations:

1. To attract international investment:

- A government sponsored procurement process
- IPP or Partnership with Eskom or entity designated by the government, with a PPA backed by government guarantee

2. To expedite licensing approval process:

- A special committee to streamline the nuclear safety and environment impact review and approval process

3. To support the nuclear new build program:

- Infrastructures such as transmission and distribution system shall be in place in time to support the nuclear new build program

4. To support the wind and solar power plan:

- An incentive program in encouraging investment
- A localization plan for major components and equipment

Thank you