

INPRO Dialogue Forum on Global Nuclear Energy Sustainability:  
**Long-term Prospects for Nuclear Energy in the  
Post-Fukushima Era**

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# NPP Infrastructure Development in Thailand

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# 1. National vision and strategy for Nuclear Power in the 21<sup>st</sup> century in **Thailand**.



- Long-term policy for nuclear energy
  - peaceful use of nuclear energy utilization (+3S),
  - proven technology/design certificate,
  - alternative source of energy for electricity generation and for
  - energy security.
- Nuclear power programme
  - Power Development Plan (PDP) 2010 was planned for four 1000 MWe NPPs starting in 2020 and 2021.
  - In the wake of the Fukushima incident, the cabinet decided to postpone the plan for three years (2023).
  - Revised PDP 2010, 2 1000 MWe NPPs in 2026.

## 2. Main lessons learned after Fukushima in Thailand.



- Independent regulatory body.
- Beyond design basis accident.
- External event.
- Loss of offsite power.
- PSA/Deterministic analysis.

### 3. Thailand's expectations for global Nuclear Power development in the 21<sup>st</sup> century



- National anticipation in the next 100 years
  - NPP as alternative source of energy.
  - No reprocessing plan for spent fuel.
  - Waste management and disposal.
  - Nuclear fuel Bank.
  - ASEANTOM initiation (3S).
- Major policy implications and challenges
  - Law and regulation including international instruments.
  - National position.
  - HRDP detailed for Milestone 1.