Indonesian Strategy on Development and Deployment of SMR

22nd INPRO Dialogue Forum on Successful Development and Sustainable Deployment of SMRs
6-10 May 2024, Jeju Int. Convention Centre
Jeju, Republic of Korea
Strategy #1: Implementing Int. Vendors NPP

Initial Nuclear Energy Utilization Target ➔
2030 – 3034 [Second 5-year term of National Long-Term Plan 2025 – 2045]

In particular: 250MWe in 2033

Technology Push from SMR’s vendors

- Power level spectrum: 1MWe – 300MWe
- Land or marine based
- Cogeneration Potential

Indonesia Energy Demand

- Economic Development and Net Zero Emission
  - ‘Huge yet distributed’ demand
  - Processing abundant natural resources

Match-making

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Strategy #2: Internal Tech. Push

Develop a **SMR with cogeneration features** based on a 40MWt Pebble Bed HTGR (PeLUIt-40)

**System Performance Target:**
1. De-dieselization; 2. Low-carbon Hydrogen Production

Next: start design approval to BAPETEN in 2024. with Strategic International Partner.

**Pre-SMR Commercialization Pathway**

1. Small Prototype Reactor [Dragon, PeachBottom, AVR, HTR-10]
2. Medium Demo Reactor [FS Vrain, THTR, HTR-Modul]
3. Big Commercial Reactor [HTR-PM600??]

**In SMR Era?**
Electricity market for low-power grid/remote demand is huge, in particular to include co-generation demand.

2-Steps Scheme using exactly same SMR:
From Small Prototype/Demo to
‘Small but Many’ Commercial Reactor.
Thank You, Let’s Collaborate!