PAFS
PCCS
PECCS
ECT

Innovative SMR Development Agency

< Commercial Large PWR + Passive Systems >
< SMART >

- Integrated PWR
- Electric Power: 170 MWe /Module
  - 680 MWe in case of 4 modules
- Core: UO₂, 69 FAs, (active length: 2.4 m)
- Boron Free Operation
  - No Chemical concerns,
  - No Boron Precipitation during Accident
- Canned Motor RCP
  - Enhancing economics & Instability free
- Dry type Passive Safety Systems
  - No Failure, Easy Maintenance
  - PAPS, PECCS, PCCS
- Module Fabrication & Construction
- LCOE < 65 $ / MWe

KHNP: Utility
DOOSAN: Equipment Supply
KEPCO E&C: A/E + NSSS DESIGN
KNF: Reactor Core & Fuel
KAERI: Nuclear R&D

Public Sector
Private Sector

2023: Nuclear Design
2024: Safety Analysis
2025: Design Spec
2026: SET
2027: IET
2028: SSAR, SDA
2029: Preparation of Construction
2030: First Module Installation
2031: