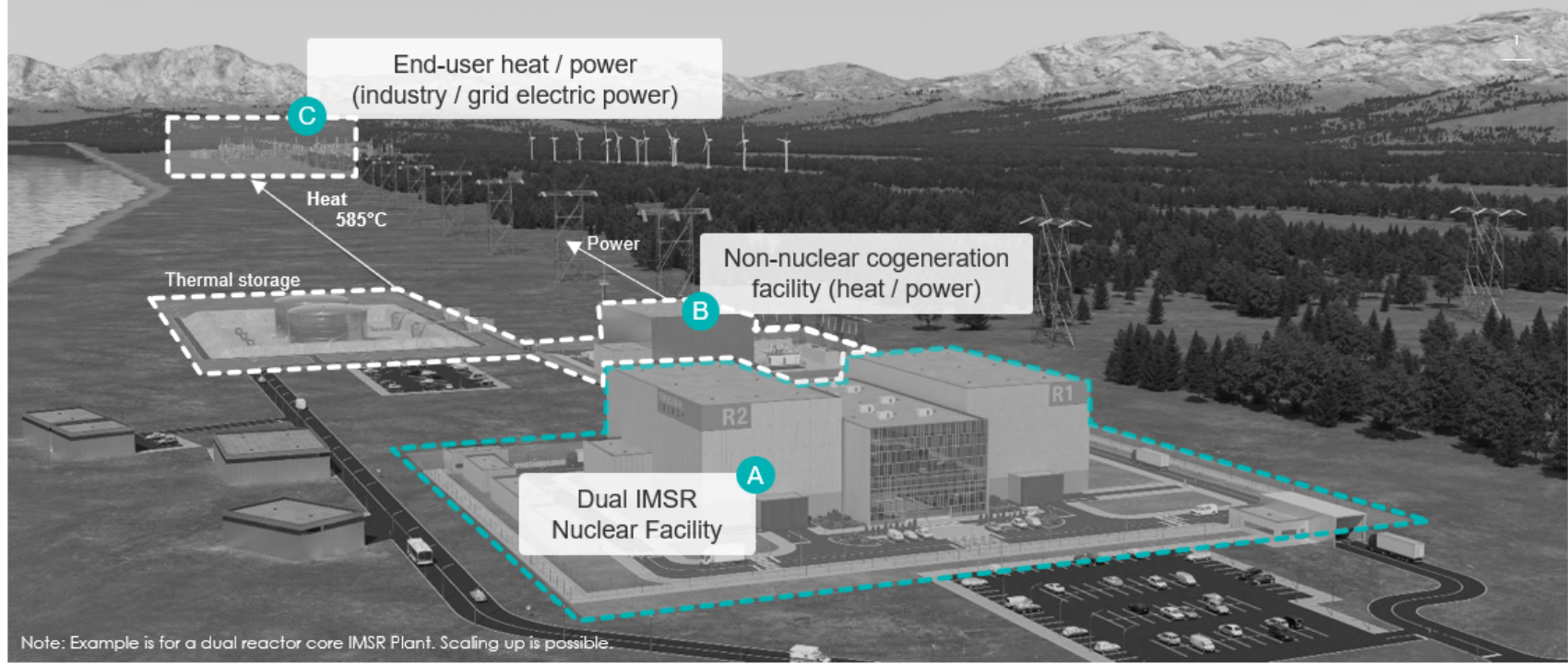
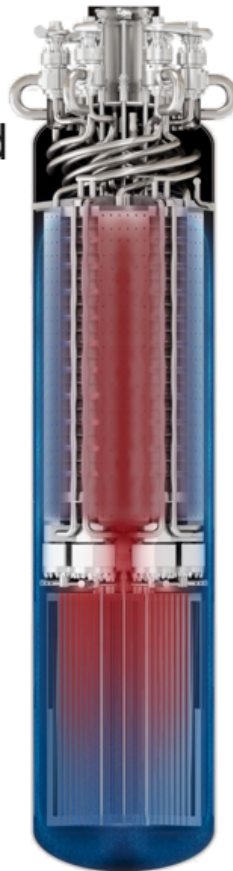


IMSR - uniquely flexible to deliver the heat and power needed

Separation of nuclear systems from thermal and electrical systems gives the **flexibility** that is essential to serve industries' many cogeneration needs

The IMSR has been designed to use <5% LEU, avoiding all the HALEU supply constraints – HALEU production, HALEU Fuel Form fabrication, HALEU Fuel Assembly manufacturing, and HALEU transport packaging development and manufacture.

Fueled with <5% LEU delivering 585°C heat gives the IMSR unique value within the Gen IV sector



Note: Example is for a dual reactor core IMSR Plant. Scaling up is possible.

A Standardized dual IMSR Nuclear Facility

- Subject to nuclear regulation
- Standardized, simplifying design and saving costs
- 884 MW (gross) thermal energy production for 585°C supply

B Customized non-nuclear Thermal and Electrical facility

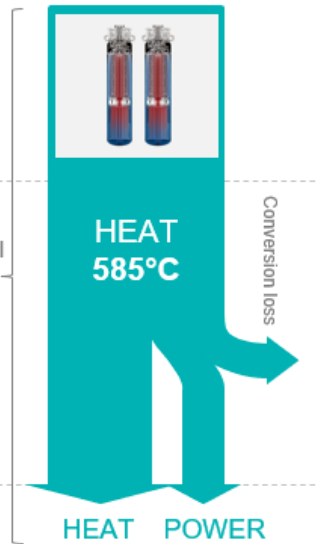
- Converts 884 MW (gross) thermal energy from two IMSRs to 585°C 822 MW (net) thermal or 390 MW (net) electric power for commercial supply – or any heat/electric power mix in between
- Can be commissioned and operating prior to Nuclear Facility (initially natural gas and electric grid powered)
- Can include molten-salt thermal energy storage and buffering to enhance an already strong load-following performance for commercial advantage

C Industrial cogeneration off-takers

- Chemical and petrochemical plant
- Hydrogen / ammonia / fertiliser plant
- Other industrials requiring clean heat & power

Municipal off-takers

- Electric grid
- Desalination



822 MWt (thermal) <<< 585°C >>> 390 MWe (electrical)