

Generation IV : An International Forum (GIF)

➤ New requirements for sustainable nuclear energy

- Gradual improvements in :
 - ✓ **Competitiveness**
 - ✓ **Safety and reliability**
- Concepts with breakthroughs
 - ✓ **Minimization of wastes**
 - ✓ **Preservation of resources**
 - ✓ **Non Proliferation**

➤ Systems expected to reach technical maturity by 2030

➤ Assets for new markets

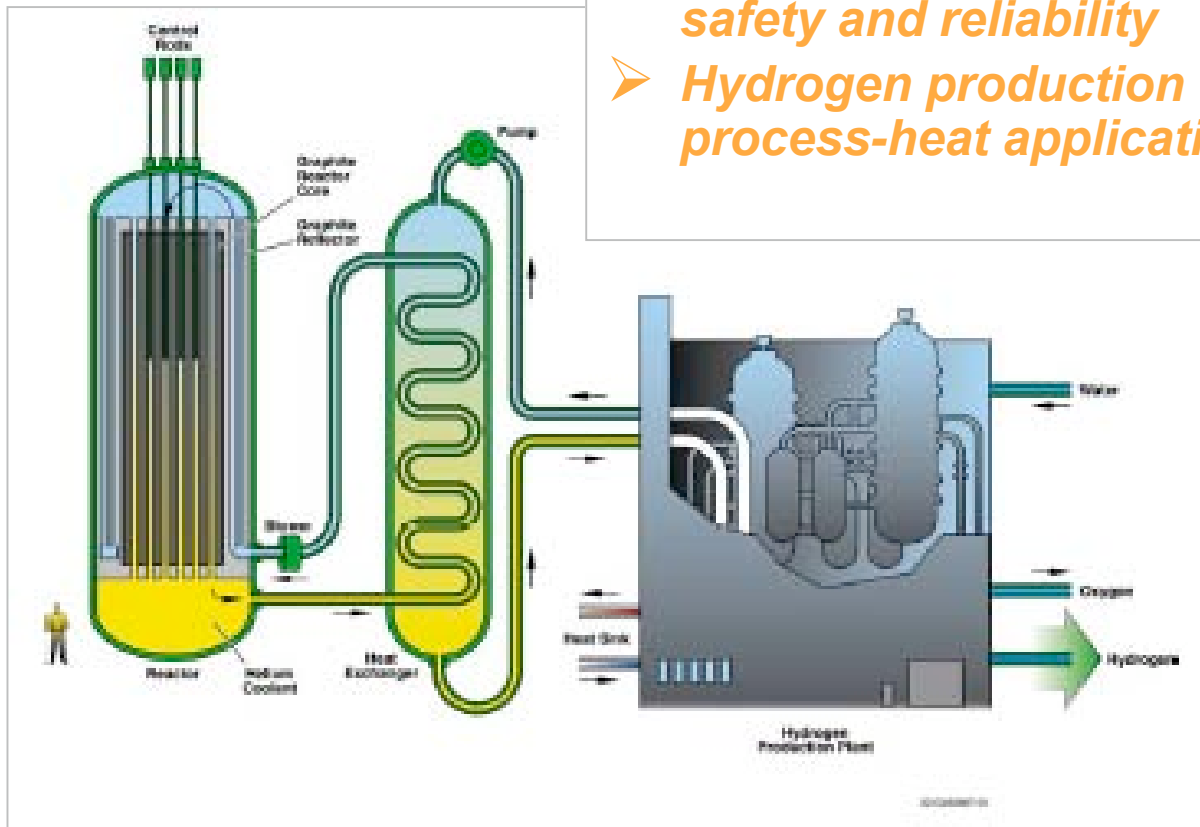
- hydrogen production
- direct use of heat
- sea water desalination

➤ An internationally shared R&D



VHTR Very High Temperature Reactor

- *Thermal spectrum, once-through uranium cycle*
- *Prismatic block or pebble bed fuels*
 - *Highly ranked in economics & in safety and reliability*
 - *Hydrogen production & other process-heat applications*



Iodine-Sulfur process for hydrogen production

