

Japan's Nuclear Energy Policy and Nuclear Innovation

Ministry of Economy, Trade and Industry

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Position of Nuclear in Japan's Strategic Energy Plan

Towards 2030 : Achievement of Optimal Energy-Mix Target

Nuclear is Important Baseload Power Source

- Safety is First Priority. Only when approved by NRA's strict review, NPPs restart.
- With principle of minimizing nuclear dependence, achieving 20-22% nuclear by 2030.

	2010	2013	2017	2030
Nuclear	25%	1%	3%	22-20%
Renewable	9%	11%	16%	22-24%
Thermal	65%	88%	81%	56%

Towards 2050 : Challenge for Energy Transition

Nuclear is One Option for Energy De-carbonization

- Safety is First Priority. Minimizing dependence on nuclear while trying to expand Renewable.
- Great progress in human resources, technology and infrastructure
- Pursuit of safe, economically efficient and mobile reactors, Development of Back End tech

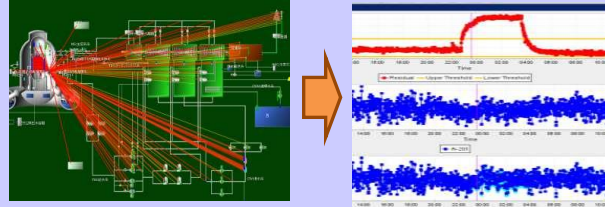
Pursue every possible energy source

Various Examples of Nuclear Innovation in the World

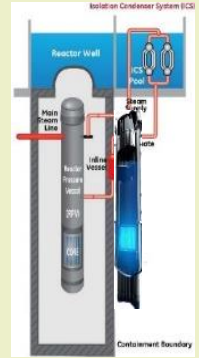
Accident Tolerant Fuel



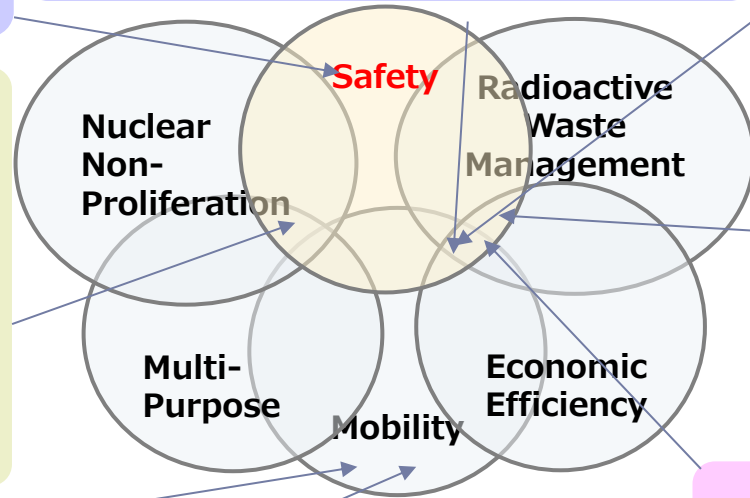
Predictive monitoring (Crosscutting development)



LW SMR with Economic Efficiency + Safety



Small- HTGR



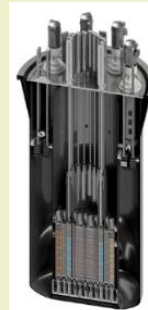
MOX fuel SFR



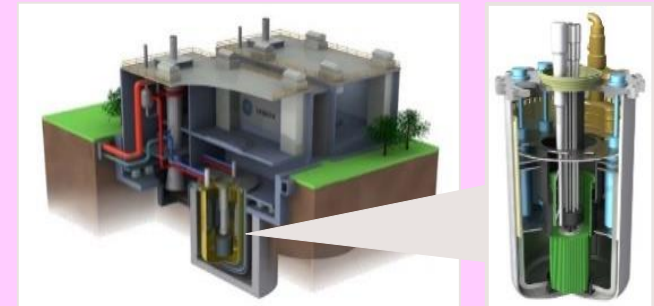
Levitation Type PWR



Off Grid Micro Reactor



SFR (using Metal Fuel)



3 Key Factors for Future Nuclear Innovation

