

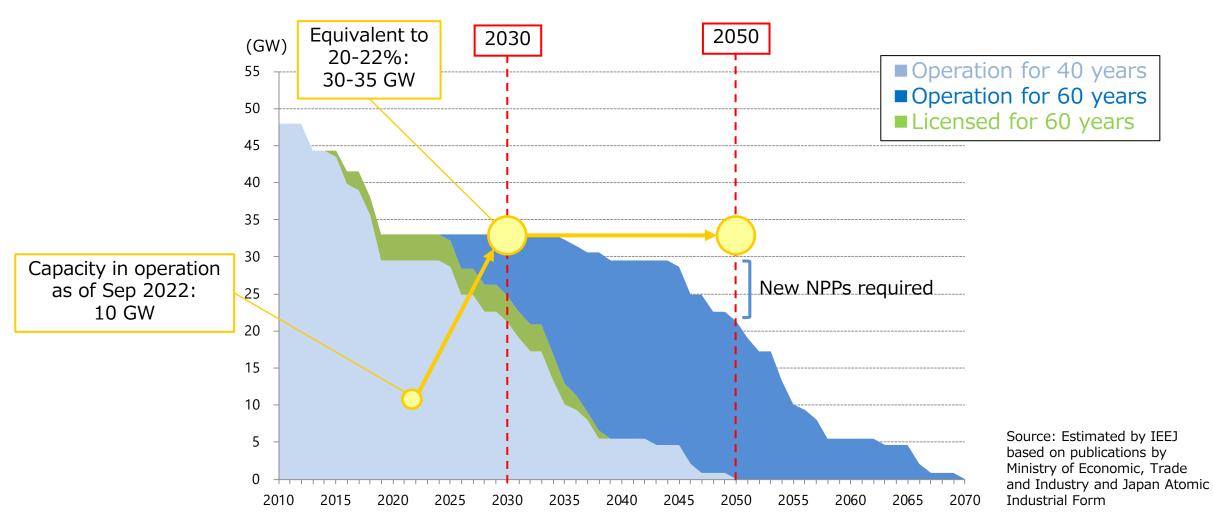
Challenges and Prospects of Restart and Advanced Reactors in Japan

The Institute of Energy Economics, Japan

Global Energy Group 1, Strategy Research Unit Kei Shimogori

Nuclear Power Plants in Japan: Long-term operation is the key as well as restart

- Existing reactors: 33 units (Restarted: 10 units, Expected to restart after next summer: 7 units)
- 30 GW would be necessary to achieve 20-22% in 2030. Lifetime extension to 60 years is crucial, and new reactors are also necessary to keep the same capacity level in 2050.



Roadmap for Advanced Reactor Development (Draft outline, July 2022)

- Construction and Operation in Japan

 Identified the timeline and milestones toward 2050 based on technology readiness, corresponding regulations, supply chain, marketability, and non-energy utilization.

