

Current Status & Future Prospects of Nuclear Power in Japan

September 2026

Prepared for the 70th IAEA GC Japan Booth



Japan Atomic Industrial Forum, Inc.

NPPs in Japan (As of Sept 2026)

Restarted
15 reactors

(Month of Restart)

**Passed NRA Review
for the Permission for Changes
in Reactor Installation**
3 reactors

(Month of Approval)

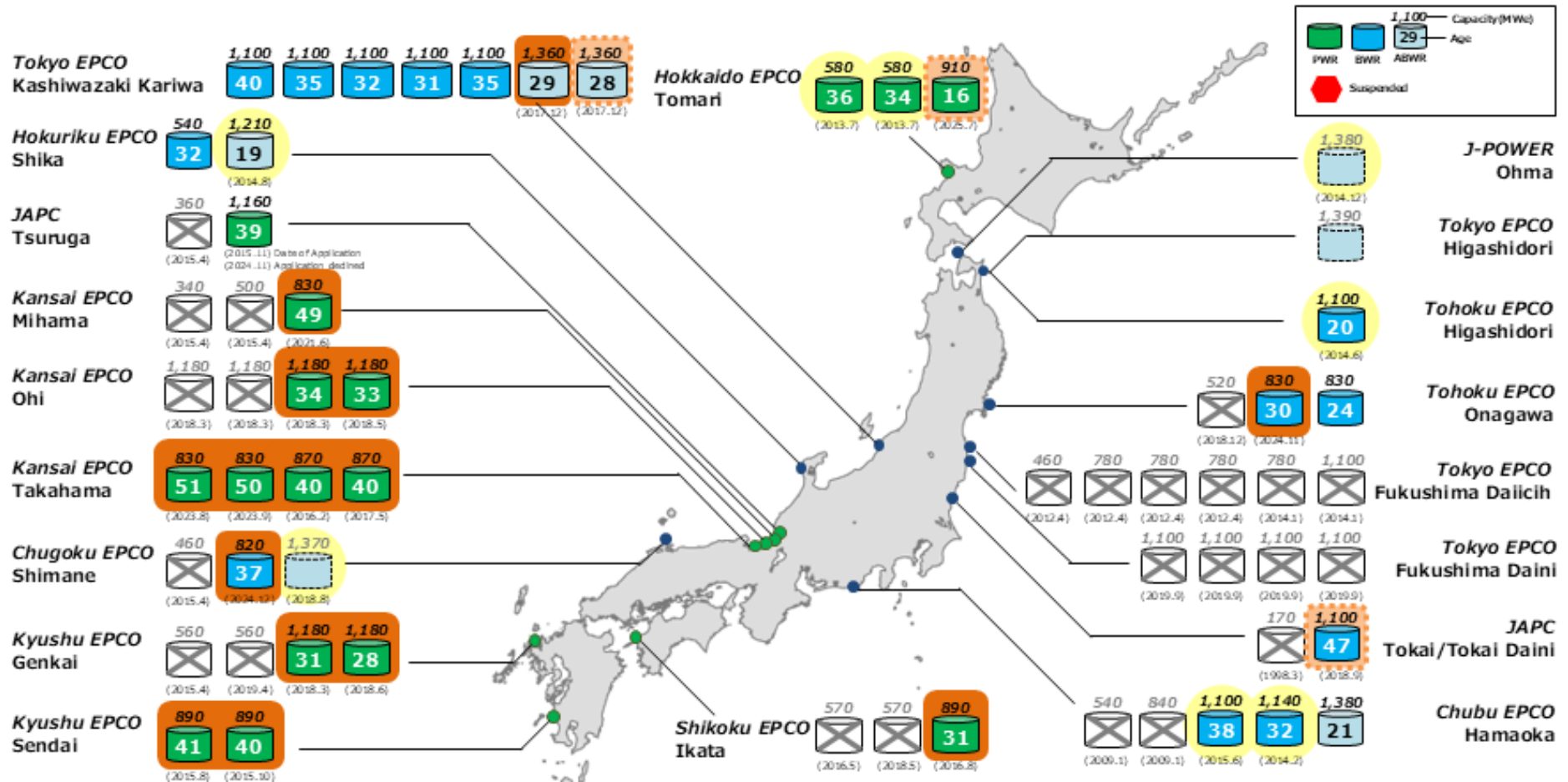
**Under NRA
Review**
8 reactors

(Month of Application)

**Not yet
Applied**
10 reactors

**Under
Decommissioning**
24 reactors

(Month of Decommission)



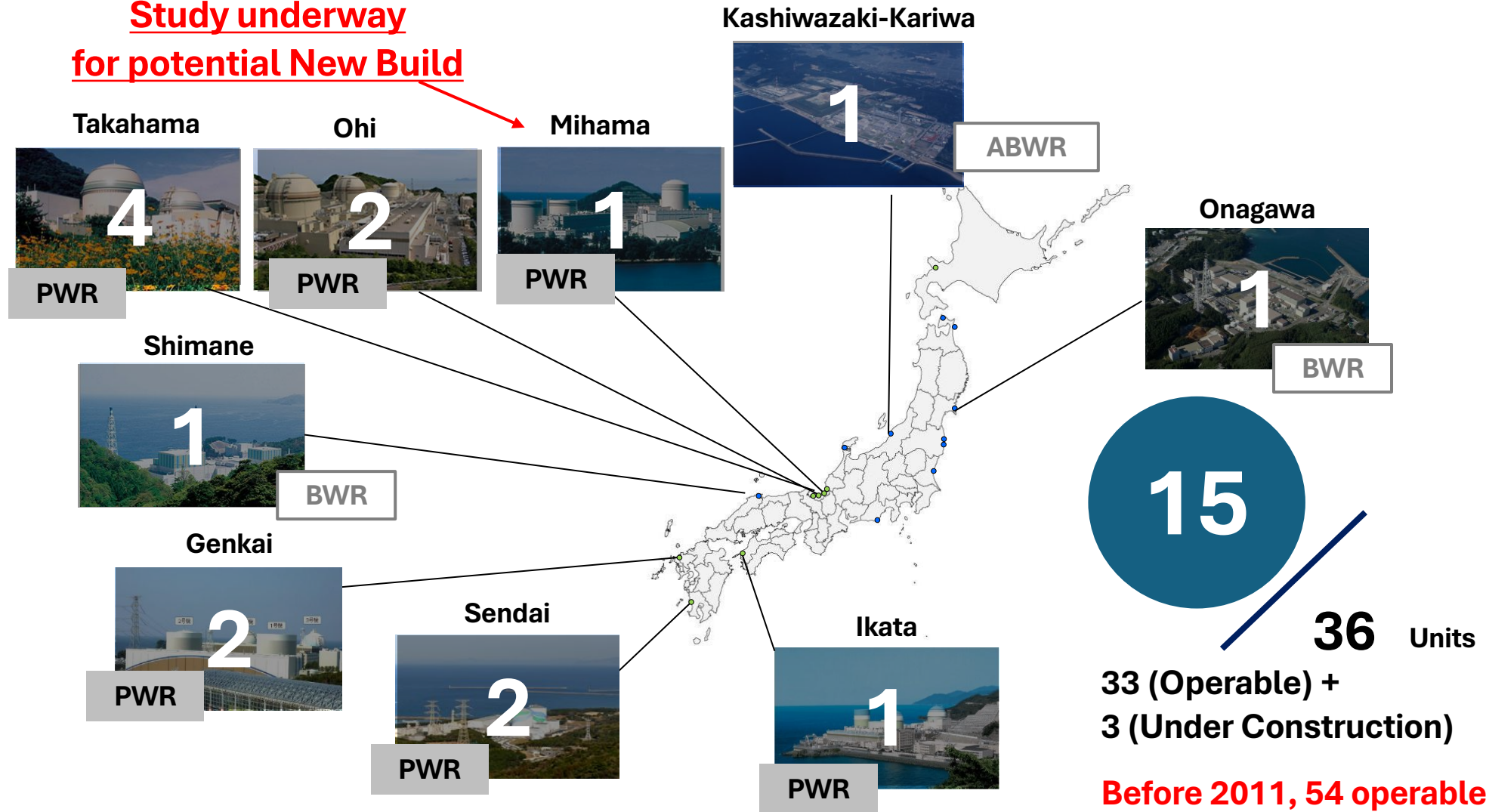
Source : Agency for Natural Resources and Energy, Ministry of Economy, Trade and Industry



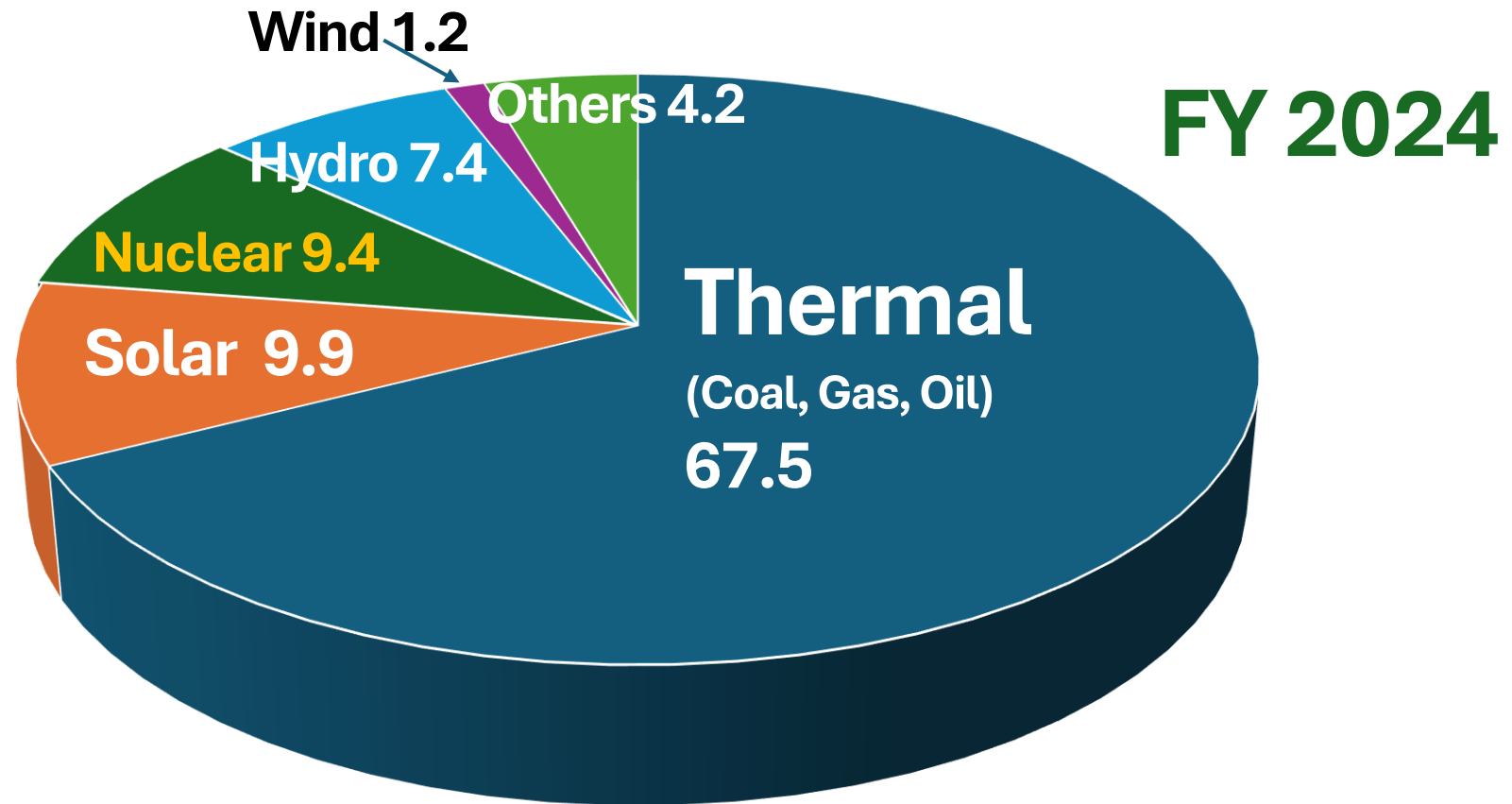
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Restarted Reactors in Japan (As of Sept 2026)

Study underway
for potential New Build



Power Generation by Source in Japan



Public Attitudes toward Nuclear Power



※ For/total (for + somewhat for)

※ Against/total (somewhat against + against)



Strategic Energy Plan of Japan

Positive Shift for Nuclear

6th Edition



7th Edition

Basic Policy

Reduce dependence

Maximize the use

New Build/ Replacement

Not Mentioned

Construction of
next-generation innovative
reactors and replacements

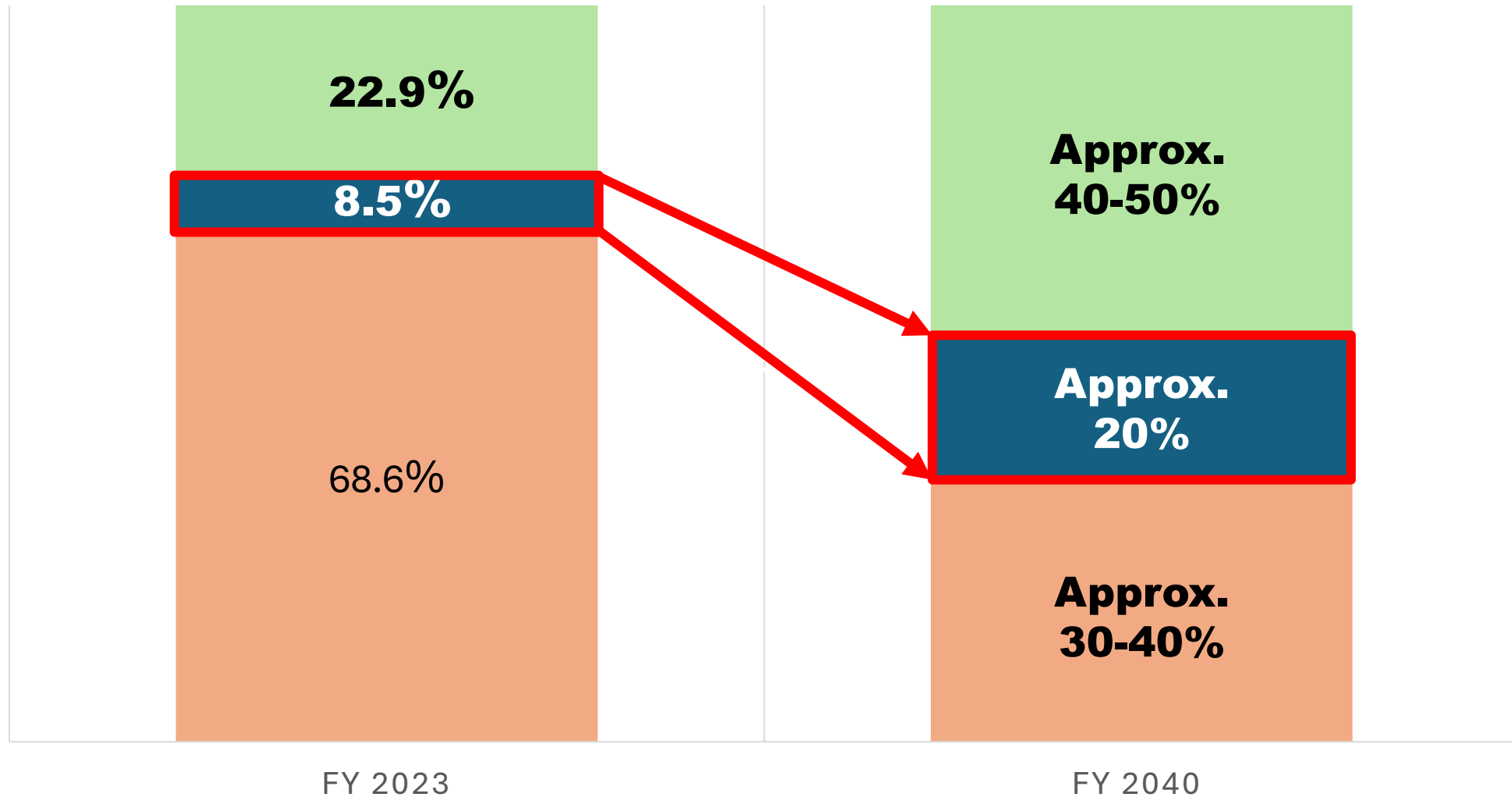


Official Forecast (June 2026):

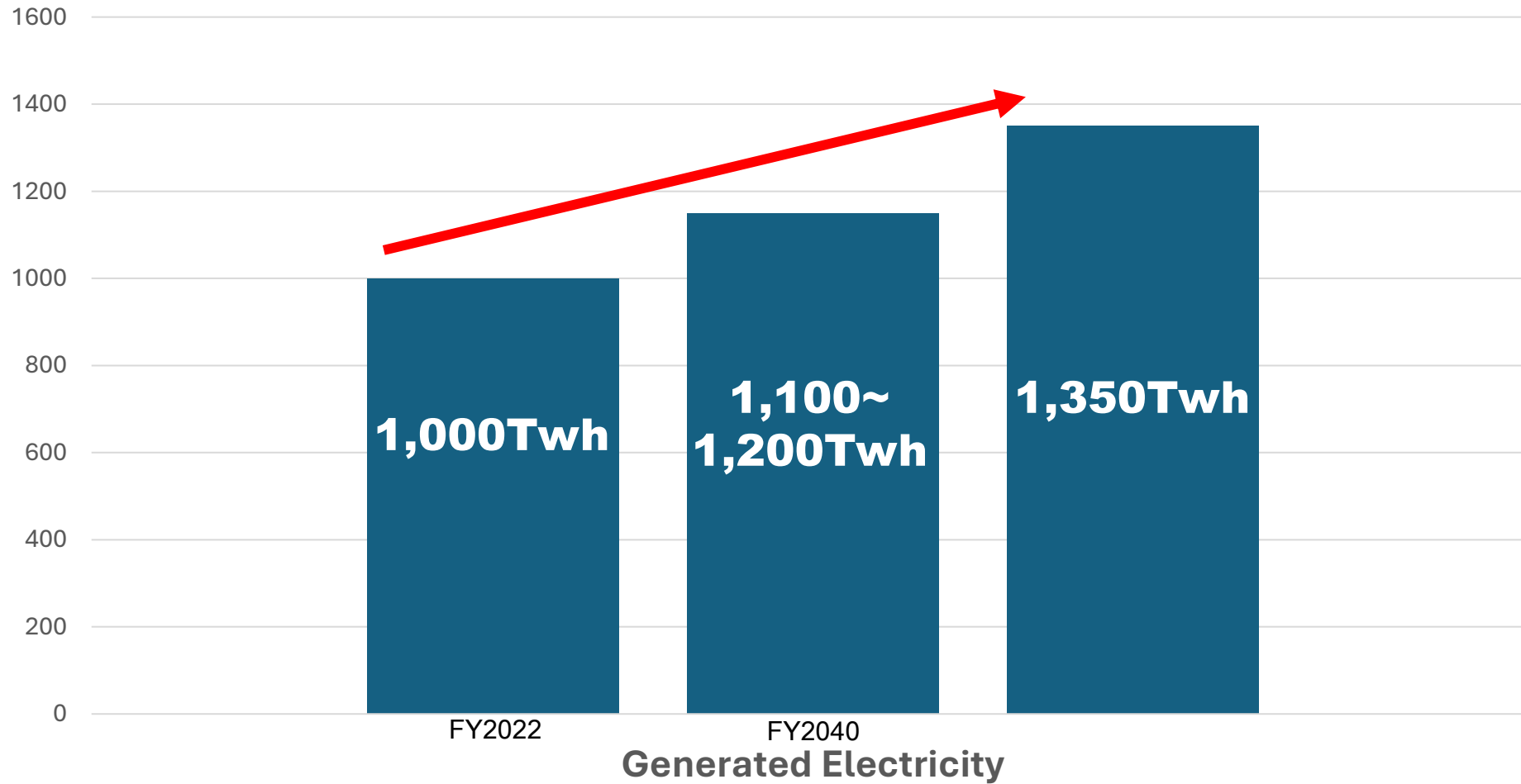
- By 2040s: 2–5 reactors replacements
- By 2050s: Up to 14 reactors replacements



Future Energy Mix in Japan



Increasing Electricity Demand

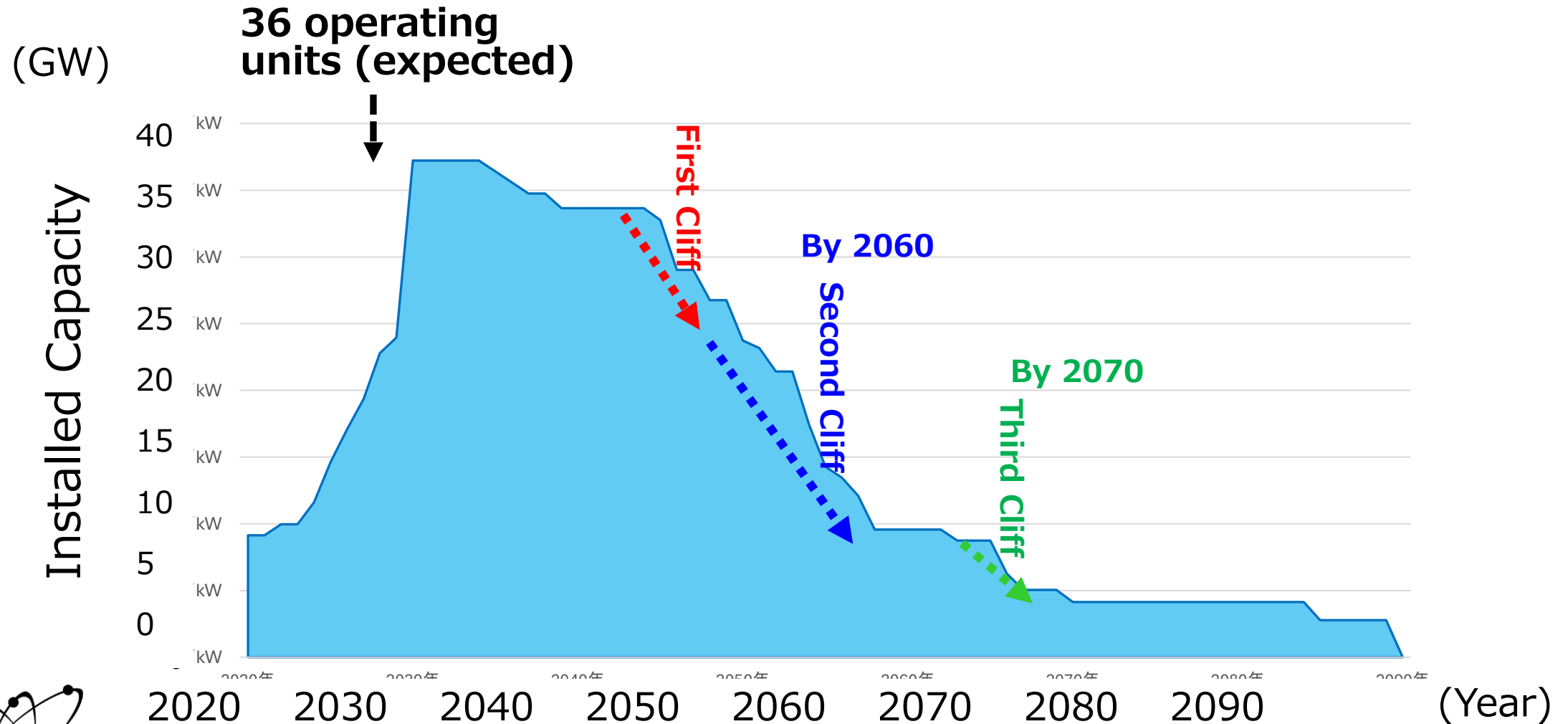


Source : Agency for Natural Resources and Energy, Ministry of Economy, Trade and Industry



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Declining Nuclear Capacity



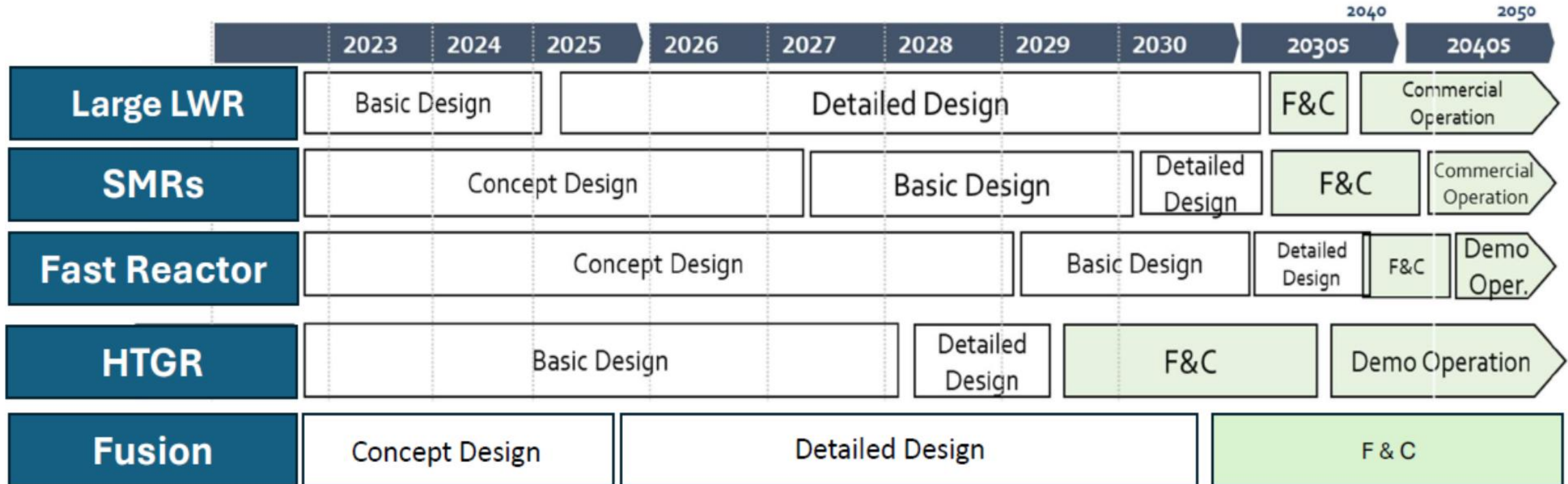
Estimate for Replacement Capacity

	Expected Demand	Necessary Replacement	Share of Nuclear
2040s	1,100~1,200 TWh	Max. 5.5GW	20%
2050s		Max. 16GW	

Summarized based on "Prospects and Future Outlook for Nuclear Power Generation in Light of Future Electricity Supply and Demand" (FEPC)



Roadmap for Development of Advanced Reactors



Source : Agency for Natural Resources and Energy, Ministry of Economy, Trade and Industry



Major Milestone: METI-IAEA Partnership for SMRs

Landmark MoC Signed (June 23, 2026)

Collaboration on Global SMR Deployment

- Infrastructure Support: Assisting newcomer countries in regulatory and physical prep.
- Human Resources: Fostering talent through joint training and missions.
- Safety Expertise: Leveraging Japan's extensive knowledge in nuclear safety.



IAEA Director General Grossi and the Ministry of Economy, Trade and Industry (METI) Minister Akazawa



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Source : Agency for Natural Resources and Energy, Ministry of Economy, Trade and Industry

Moving toward New Build

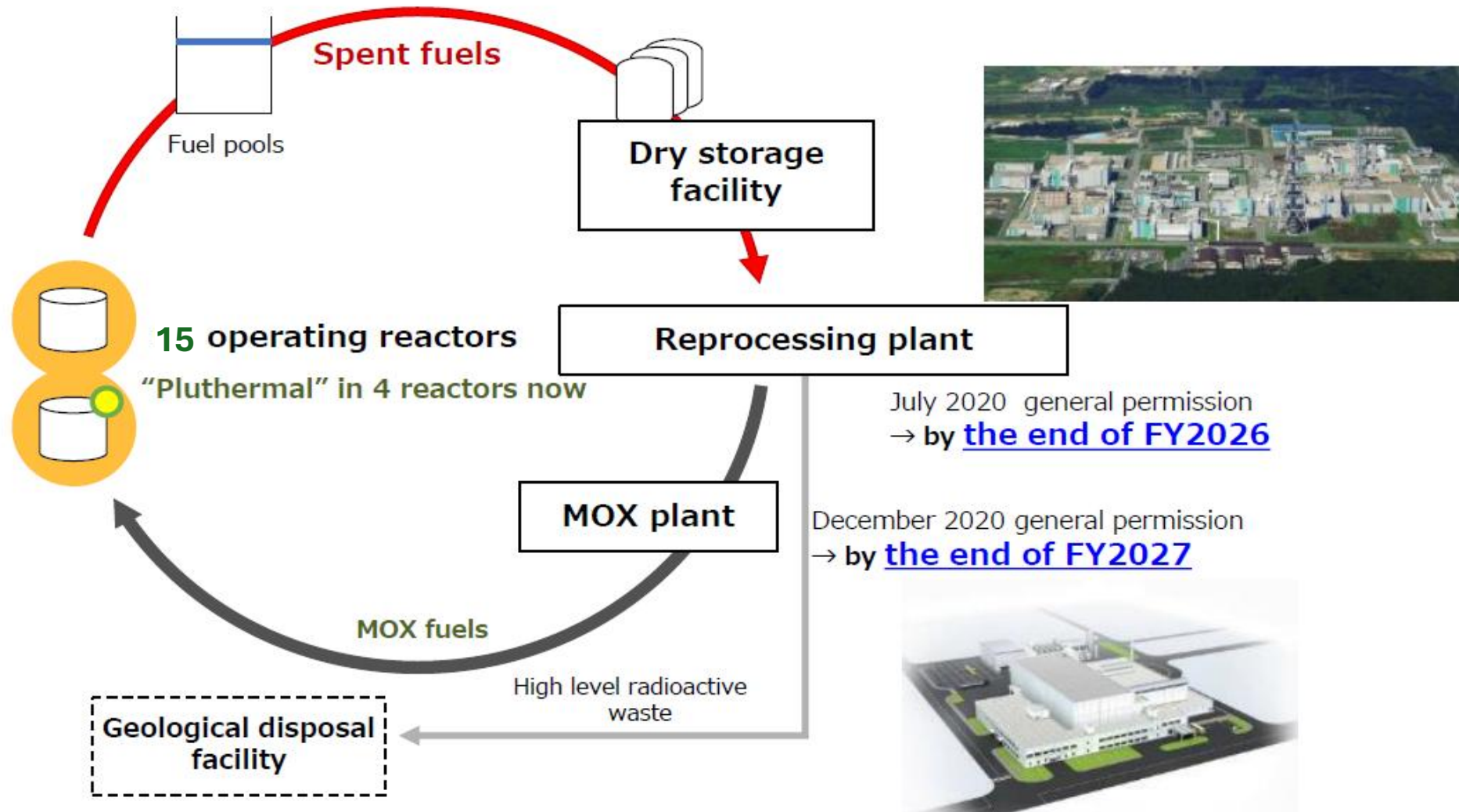
- Feasibility Study on Replacing Decommissioned Unit at Mihama Nuclear Power Station of Kansai Electric Power Co.
- On-Site Survey for Building Advanced LWR since November 2025



Mihama Nuclear Power Station
Source: Kansai EPCO



Japan's Nuclear Fuel Cycle



Actions for Maintaining and Strengthening Nuclear Supply Chains

1. Domestic Infrastructure Reinvestment

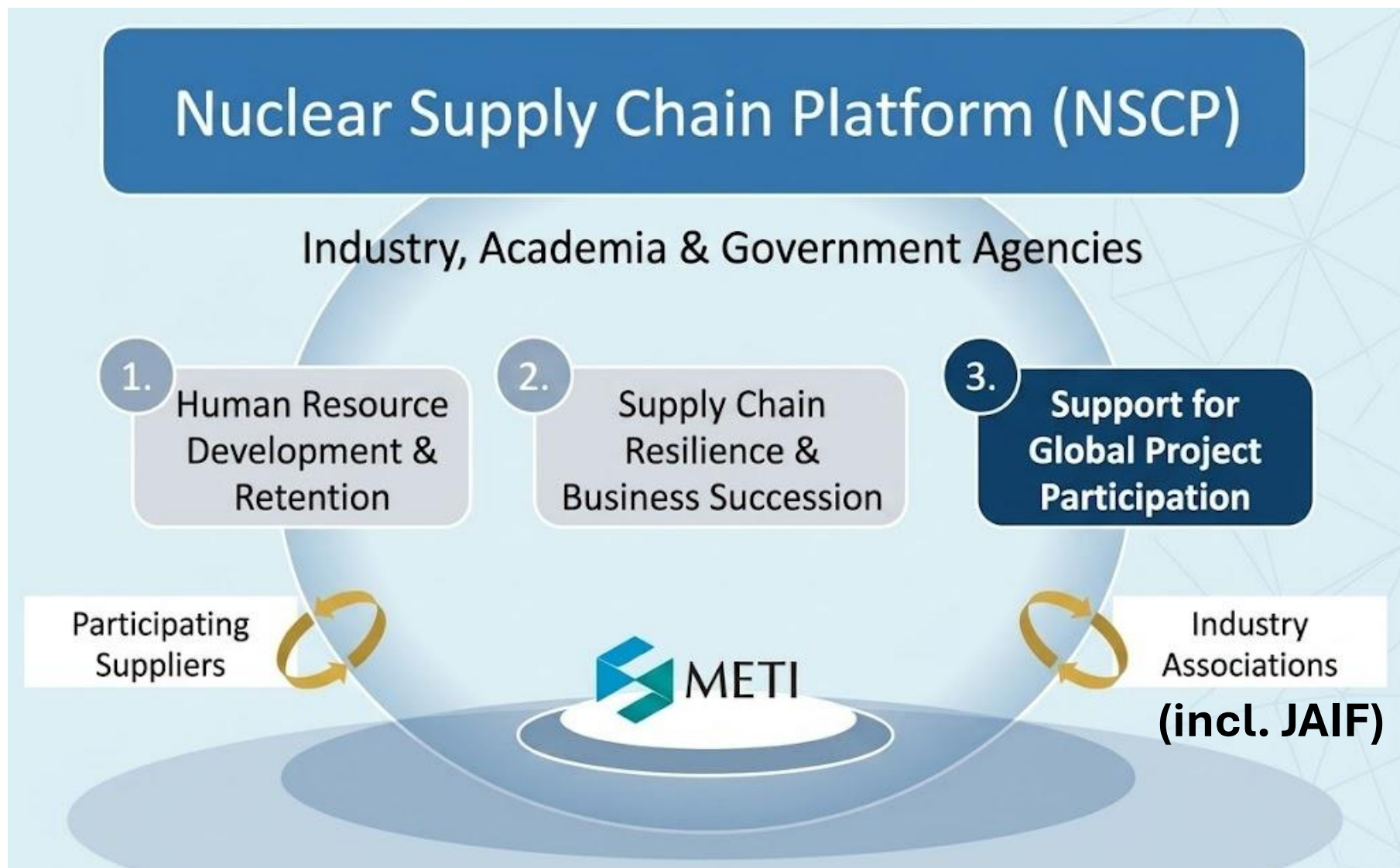
- **Skill Preservation:** Transfer welding and heavy forging skills.
- **Digitalization & Succession:** Support SMEs with technical assets.
- **Advanced Reactor Support:** Utilize government funding (GX Bonds).

2. Global Project Participation

- **Supplier Trade Missions:** Deploy delegations to Canada, UK, Europe, and US.
- **Direct Vendor Matching:** Connect with global leaders (GEH, Westinghouse, OPG, etc.).
- **Continuous Follow-up:** Organize workshops on foreign quality standards.

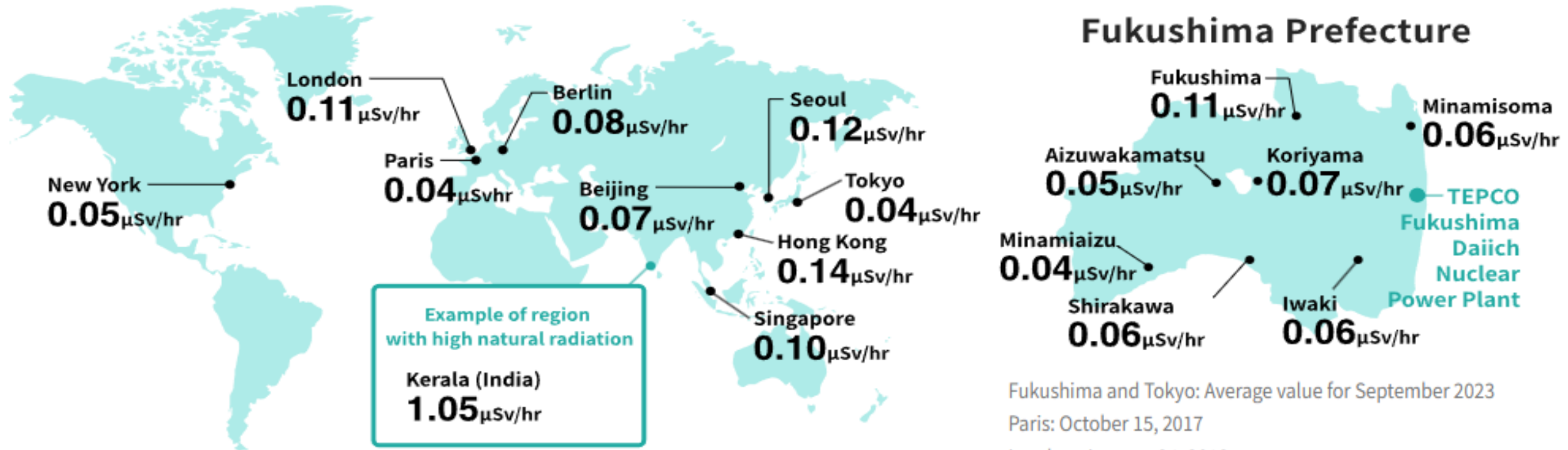


Initiatives for Maintaining the Nuclear Supply Chain



Current Reconstruction Efforts in Fukushima

Ambient dose rates in major cities of Fukushima Prefecture



The level of ambient radiation across Fukushima Prefecture is at almost the same level as major cities across the globe.

Fukushima and Tokyo: Average value for September 2023
Paris: October 15, 2017
London: January 24, 2018
New York: January 18, 2019
Beijing and Seoul: September 24, 2019
Singapore: September 26, 2019
Berlin and Hong Kong: September 27, 2019



Is Fukushima habitable?

Approximately 97.8% of Fukushima Prefecture is safe for habitation, with around 1.75 million people currently living there, leading normal lives.

**Approximately
97.8%**

of Fukushima Prefecture is
safe for habitation

**around
1.75 million**

people currently living there,
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**approximately
2.2%**

of Fukushima Prefecture's
land area

Decontamination and infrastructure development have led to the steady lifting of evacuation orders, and the Evacuation-designated Zones have shrunk from approximately 12% to approximately 2.2% of Fukushima Prefecture's land area.

<https://fukushima-updates.reconstruction.go.jp/en/condition/#evacuation-order-area>

Source: Reconstruction Agency, Fukushima Updates (information as of April and July 2024)



Are towns around the power station still out of bounds?

Entry restrictions remain in place for certain areas, though these zones are significantly fewer in number compared to the period immediately after the disaster.

March 2020

The evacuation order was lifted for all areas in the Evacuation Order Cancellation Preparation Zone and the Restricted Residence Zone.

November 2023

All evacuation orders were lifted in the six towns and villages of the Specified Reconstruction and Revitalization Base Areas.

During the 2020s

The plan for this category, which lies within the Difficult-to-Return Zone but outside of the Specified Reconstruction and Revitalization Base Areas, is to lift evacuation orders over the course of the 2020s to allow residents to return to their homes and rebuild their lives.

https://fukushima-updates.reconstruction.go.jp/en/faq/fk_040.html

Source: Reconstruction Agency, Fukushima Updates (information as of April 2024)



Infrastructure development for returnees, migration, etc.

As a result of increasing returnees and people migrating to areas where evacuation orders have been lifted, development will progress for roads and railroads, as well as public housing, commercial facilities, medical and nursing care facilities, and other living environments in evacuated areas for returnees, migration, and other objectives.

● Roads



Reconstruction roads and reconstruction support roads

● Railroads



JR Joban Line

All lines reopened in March 2020

● Commercial facilities



Namie Town : MICHINOEKI-NAMIE

Opened in March 2021

● Medical and nursing care facilities



Tomioka Town : Futaba Medical Center

Opened in April 2018*

● Public housing



Futaba Town : Station west-side housing

Start accepting residents in October 2022*

● Educational facility



Okuma Town : Manabiya Yumenomori

Reopened in April 2023



Japan Atc

Safety in Fukushima

Safety of food products and drinking water in Fukushima and Japan

What are the radiation dose levels in Fukushima Prefecture?

Dose levels in the major cities of Fukushima Prefecture are no different than in Tokyo or other major cities around the world.

Are food products from Fukushima safe?

Japan's food safety standards are among the most rigorous in the world and apply to food products throughout the country, including Fukushima. The food products undergo inspections before being distributed on the market.

Is the tap water in Fukushima safe?

Yes. It is safe and suitable for drinking.

https://fukushima-updates.reconstruction.go.jp/en/faq/fk_040.html



We hope you found the information useful.
Thank you.



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