The Plutonium Utilization Plan

February 20, 2026

The Federation of Electric Power Companies of Japan

The 9 major utilities (excluding the Okinawa Electric Power), the Japan Atomic Power Company, and Electric Power Development Co., Ltd. (J-Power) have updated the Plutonium Utilization Plan based on the tentative operation plan for the Rokkasho Reprocessing Plant and MOX Fuel Fabrication Plant as well as changes in the business environment in the past year.

This new plan describes the amount of plutonium projected to be used by each operator in the three years from FY2026 to FY2028.

The 11 power companies in the new Pluthermal Program published on December 2020 have indicated their intent to quickly introduce pluthermal power generation in as many plants as possible and to have at least 12 reactors running on pluthermal by FY2030.

Based on the Action Plan for Promoting the Pluthermal Program published in December 2022 as part of a press release titled “Strengthening Initiatives to Promote the Pluthermal Plan”, we are focusing on our efforts to introduce pluthermal in our power plants by advancing initiatives to gain local understanding and strengthening cooperative ties between operators. In concrete terms, operators are strategically sharing knowledge and information on gaining local understanding, and moving plutonium among operators with the premise that each company will be responsible for using up the plutonium they own.

In resource-poor Japan, establishing a nuclear fuel cycle domestically is a critical part of securing a stable supply of energy in the long-term. The importance of pluthermal power generation remains unchanged even as circumstances surrounding nuclear power generation continue to change after the accident at TEPCO’s Fukushima Daiichi Nuclear Power Station.

Under the Japanese government’s policy of not possessing plutonium without a specific purpose, we will do our utmost to promote the pluthermal program to steadily use up all plutonium including that which is stored abroad and plutonium collected by the Rokkasho Reprocessing Plant through these initiatives, while also explaining to the local community to gain their understanding.

END

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Plutonium Utilization Plan

Owner	Amount stockpiled (ton(s) of Put)*1 (forecast as of the end of FY2025)	Purpose (to use as light water reactor fuel)					(Reference) Amount of spent fuel currently stored (ton U) (As of the end of FY2024)
		Reactors running on pluthermal and reactors that will be running on pluthermal conditional on the understanding of the local community*2	Amount used (ton Put)*1,*3,*4			Estimated amount of annual usage*5 (ton Put/year)	
			FY2026	FY2027	FY2028		
Hokkaido EPCO	0.3	Tomari Nuclear Power Station Unit 3	—	—	—	Approx. 0.5	510
Tohoku EPCO	0.7	Onagawa Nuclear Power Station Unit 3	—	—	—	Approx. 0.4	700
TEPCO HD	13.5	One of TEPCO HD's reactors assuming that TEPCO will work to regain the trust of the siting region for restart, and also steadily use up plutonium	—	—	—	—	7,040
Chubu EPCO	3.9	Hamaoka Nuclear Power Station Unit 4	—	—	—	Approx. 0.6	1,380
Hokuriku EPCO	0.3	Shika Nuclear Power Station Unit 1	—	—	—	Approx. 0.1	170
Kansai EPCO	11.3	Takahama Nuclear Power Station Units 3, 4	0.7	0.7	0.0	Approx. 1.1	4,600
		One or two units at Ohi Nuclear Power Station	—	—	—	Approx. 0.5～1.1	
Chugoku EPCO	1.4	Shimane Nuclear Power Station Unit 2	—	—	—	Approx. 0.4	610
Shikoku EPCO	1.4	Ikata Nuclear Power Station Unit 3	0.0	0.0	0.0	Approx. 0.5	940
Kyushu EPCO	2.3	Genkai Nuclear Power Station Unit 3	0.0	0.0	0.0	Approx. 0.5	2,750
Japan Atomic Power Company	5.0	Tsuruga Nuclear Power Station Unit 2	—	—	—	Approx. 0.5	1,180
		Tokai Daini Nuclear Power Station	—	—	—	Approx. 0.3	
Electric Power Development Company (J-Power)	Necessary amounts handed over from other operators *6	Ohma Nuclear Power Station	—	—	—	Approx. 1.7	
Total	40.1		0.7	0.7	0		19,880
Amount of plutonium recovered through reprocessing (ton Put)*7			0.0	0.6	1.4		
Total amount stockpiled (ton Put)*8			39.4	39.3	40.7		

This plan will become more detailed as plants restart and the pluthermal program progress, and as the MOX Fuel Fabrication Plant starts its operation.

*1 Total amount of plutonium (Put). (The total may not match the sum of the amount stored by each utility as figures were rounded off at the second decimal place.)

*2 Locations according to the existing plan. This may change following future study.

*3 Use of domestic MOX fuel is projected to start in FY2031 at the earliest.

*4 0.0: When MOX fuel can be used
－: When MOX fuel cannot be used

*5 "Estimated amount of annual usage" is the annualized amount of plutonium contained in MOX fuel that will be loaded onto plants specified in the pluthermal plans formulated by each utility.

*6 Utilities are planning to hand off some of the plutonium collected in France to Electric Power Development Company.

*7 The amount of plutonium to be collected in the Provisional Operation Plan for Rokkasho Reprocessing Plant and MOX Fuel Fabrication Plant (January 28, 2026; JNFL).
The amount of plutonium to be collected will, at some point, be listed in the Mid-term Used Fuel Reprocessing Implementation Plan created by the Nuclear Reprocessing Organization of Japan and approved by the Minister of Economy, Trade and Industry.

*8 Calculated based on the amount of plutonium stockpiled (predictions as of the end of FY2025) and using the amount of plutonium to be used beyond and to be collected as indicated in the Provisional Operation Plan for Rokkasho Reprocessing Plant and MOX Fuel Fabrication Plant (January 28, 2026; JNFL).