Attached Table: R&D Purpose Plutonium Utilization Plan at JAEA throughout JFY 2024

Feb. 16th, 2024

JAEA

Owner	Forecast stockpile amount (ton(s) of Put)[*1] (forecast as of the end of FY2023)	Purpose (Research and development by utilizing fast reactor)[*2]				
		Facility	Forecast amount to be utilized (ton Put)[*3]			Estimated annual usage amount (ton Put/year)[*4]
			FY2024	FY2025	FY2026	
JAEA	3.6[*5]	Experimental Fast Reactor "JOYO"	-	-	-	0.1
Forecast amount of plutonium recovered through reprocessing (ton Put)			0	0	0	
Forecast stockpile amount (ton Put)			3.6	3.6	3.6	

Details of these projections will be announced later as progress is made, such as when the JOYO starts operation.

Forecast amounts of plutonium to be used from FY2027 and onwards

・FY2027: not fixed yet

・FY2028: not fixed yet

・FY2029-2032:not fixed yet

*1 Total amount of plutonium (Put)

*2 In addition to plutonium used for JOYO, which is scheduled to restart operation in the middle of FY2026, the plutonium will be used for basic research on the treatment technology of spent fuel, plutonium stabilization studies, and other research and development activities within the scope of the purpose and amount permitted by R&D facilities.

*3 Based on the operation plan of JOYO (as of January 31st, 2024), until approval of design and construction plan related to the new regulation standards for JOYO is obtained, the forecast amount of plutonium to be used for each fiscal year has not yet been decided as well, and is described as "-".

*4 "Estimated annual usage amount" represents an annual average amount of plutonium contained in MOX fuel to be loaded into reactor during standard reactor operations.

*5 Of the plutonium managed by JAEA, approximately 1.0t of plutonium owned by electric power companies is not included in the forecast amount mentioned above.