The findings of the National System of Safeguards of Japan from its safeguards activities in 2023 are as follows;

It was confirmed by the safeguards activities conducted by the Nuclear Regulation Authority in 2023 that all nuclear material in Japan were properly accounted for and controlled by its licensees.

Attachment 1: Safeguards Activities in Japan in 2023

Attachment 2: Inventory and Inventory Changes of Nuclear Material in Japan

Safeguards Activities in Japan in 2023

①Summary of Safeguards Activities under the National System of Safeguards of Japan

Categories under legal system for nuclear regulation ¹	Number of facilities and LOFs ²				Number of actions taken based on the regulation for functioning SSAC									
			Person-days of national inspection			Licence granted for	Approval of accounting provisions ⁴		Number of accounting reports submitted ⁵					
	Total	Recipients of national inspections	Total	Conducted by JSGO inspectors	Conducted by NMCC inspectors	minor users of nuclear material ³	Initial approval	Amendment approval	Total	ICR	MBR	PIL	Biannual reports from minor users	
Nuclear Fuel Fabrication	6 (6)	6 (6)	341 (291)	41 (24)	300 (267)		N/A 1 (2)		75 (73)	58 (57)	9 (8)	8 (8)	-	
Research Reactor	22 (22)	16 (16)	90 (80)	0 (0)	90 (80)				69 (69)	25 (23)	22 (23)	22 (23)		
Power Reactor	57 (57)	54 (54)	222 (188)	30 (12)	192 (176)			13 (9)	157 (155)	31 (19)	63 (68)	63 (68)		
Power reactor under R&D stage	2 (2)	2 (2)	17 (23)	3 (0)	14 (23)	,		(2) 13 (9)	4 (6)	0 (2)	2 (2)	2 (2)		
Reprocessing	3 (3)	3 (3)	810 (770)	13 (14)	797 (756)					42 (43)	36 (36)	3 (3)	3 (4)	
Various users (R&D etc.)	199 (201)	42 (37)	564 (440)	32 (19)	532 (421)				771 (765)	351 (342)	211 (212)	209 (211)		
Minor Users (Nuclear Use)	7 (9)	1 (2)	2 (4)	2 (2)	0 (2)	0 (0)	0 (0)	0 (0)	21 (33)	5 (15)	8 (9)	8 (9)		
Minor Users (Non-Nuclear Use) ³	1,862 (1,853)	N/A		N/A		34 (42)	34 (42)	107 (87)	3,714 (3,692)		N/A		3,714 (3,692)	
Total	2,158 (2,153)	124 (120)	2,046 (1,796)	121 (71)	1,925 (1,725)	34 (42)	35 (44)	120 (96)	4,853 (4,836)	506 (494)	318 (325)	315 (325)	3,714 (3,692)	

^{*} Records in 2022 are shown in parentheses for comparison.

2 Design Information Verification (DIV) and Complementary Access (CA)

Type of verifications	Number of verifications	Person-days of verifications		
Design Information Verification ⁶	73 (67)	96 (83)		
Complementary Access ⁷	28 (29)	37 (32)		
Total	101 (96)	133 (115)		

⁶ The IAEA, in co-operation with JSGO, conducts DIVs based on safeguards agreement to verify the correctness and completeness of the design information of facilities provided to the IAEA.

¹ Categorized in accordance with the Law for the Regulations of Nuclear Source Material, Nuclear Fuel Material and Reactors (Nuclear Reactor Regulation Law).

² When counting the number of facilities and LOFs, the categorization of IAEA safeguards implementation is followed. The categorization does not always correspond with the categorization of domestic regulation.

Minor users are licenced to use natural and/or depleted uranium up to 300g and/or thorium up to 900g.

³ Only those who use Nuclear Fuel Material

⁴ All licencees shall have approved accounting provisions to account for and control internationally controled material (incl. nuclear material) properly.

⁵ All licencees shall submit accounting reports based on the requirement of the domestic regulation and accounting provisions.

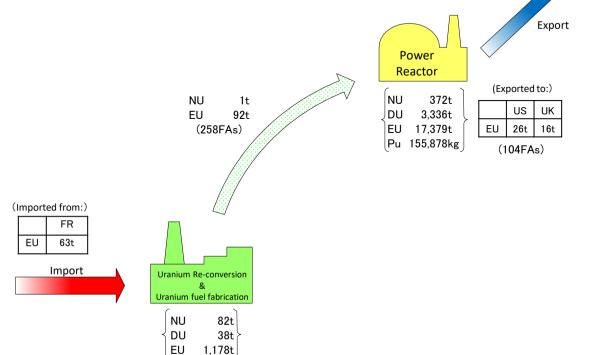
⁷ The IAEA conducts CAs based on additional protocol to the safeguards agreement to confirm the absense of undeclared nuclear material and activities. (Except the number of activities by Ministry of Foreign Affairs.)

Inventory and Inventory changes of Nuclear Material in Japan

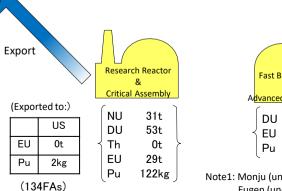
(1) Major inventory and inventory changes in 2023

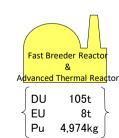
(Figure summarizing the results of accounting for and control of

nuclear material at each facility)

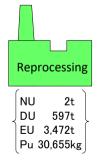


Attachment 2

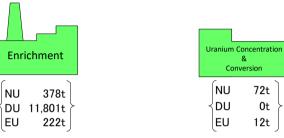


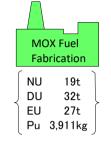


Note1: Moniu (under decommissioning). Fugen (under decommissioning). and Jovo of Japan Atomic Energy Agency (JAEA)



Note2: Rokkasho Reprocessing Plant is under construction: Tokai Reprocessing Plant is under decommissioning.





Note3: Plutonium Fuel Production Facility (PFPF), Plutonium fuel development center Plutonium Fuel Facility (PPFF) & Tokai Research and **Development Facility of JAEA**

NU: Natural Uranium

DU: Depleted Uranium

Th: Thorium

EU: Enriched Uranium

Pu: Plutonium

FAs: Number of Fuel Assemblies

Facilities are categorized according to the stages of nuclear fuel cycle and the categorization does not correspond to regulatory categorization.

0t

- Each category does not include associated facilities of main facilities.
- Inventory is based on the weight of elements as of 31 December 2023.
- More than 0.1kg of Pu and more than 0.1t of another elements are described.

2 Nuclear Material Inventory by facility types

Categories of Nuclear Material ¹ Categories	Natural uranium	Depleted uranium	Thorium	Enriched uranium		Plutonium
under legal system for nuclear regulation ¹	(t)	(t)	(t)	U(t)	U-235(t)	(kg)
Nuclear Fuel Fabrication	460	11,839	0	1,400	57	-
Nuclear Fuel Fabrication	(462)	(11,839)	(0)	(1,429)	(58)	(-)
Research Reactor	31	63	0	34	2	1,839
Research Reactor	(31)	(63)	(0)	(34)	(2)	(1,840)
Power Reactor	372	3,336	_	17,379	337	155,878
rower Neactor	(371)	(3,336)	(-)	(17,339)	(341)	(153,863)
Power Reactor	_	95	_	3	0	3,257
under R&D stage	(-)	(95)	(-)	(3)	(0)	(3,257)
Reprocessing	2	597	0	3,472	33	30,655
r (epi ocessing	(2)	(597)	(0)	(3,472)	(33)	(30,656)
Various users (R&D, etc.)	120	252	5	49	1	3,992
various users (NQD, etc./	(120)	(252)	(5)	(49)	(1)	(3,995)
Minor Users	0	0	0			
(Nuclear Use)	(0)	(0)	(0)			
Minor Users	0	0	0			
(Non-Nuclear Use)	(0)	(0)	(0)			
Total ²	986	16,183	5	22,337	430	195,621
i otai	(986)	(16,183)	(5)	(22,326)	(435)	(193,612)

^{*} Figures are based on the data as of 31 December, 2023. For comparison, corresponding data as of 31 December, 2022 are provided in parantheses below.

^{*} - In the table, "-" indicates that there is no inventory, and "0" indicates that there is an inventory of less than 0.5.

¹ Categorized in accordance with the Law for the Regulations of Nuclear Source Material, Nuclear Fuel Material and Reactors (Nuclear Reactor Regulation Law) and the relevant cabinet order.

² Due to rounding, total figure may not correspond to the sum of figures above.

3 Inventory of nuclear material subject to bilateral nuclear cooperation agreements

As of 31 December 2023

					As	of 31 December 2023	
Categories of Nuclear Material*	Natural Uranium (t)	Depleted Uranium	Thorium (t)	Enriched	Plutonium		
Supplying Party	(t)	(t)	(t)	U(t)	U-235(t)	(kg)	
United States of America	79	3,774	1	16,085	307	138,329	
Office Otates of America	(80)	(3,774)	(1)	(16,108)	(310)	(137,503)	
United Kingdom of Great Britain	12	447	0	2,297	39	21,945	
and Northern Ireland	(12)	(447)	(0)	(2,300)	(41)	(21,450)	
France	36	6,520	0	6,181	99	61,348	
	(36)	(6,520)	(0)	(6,142)	(99)	(60,818)	
Canada	676	5,293	0	5,726	99	56,838	
	(676)	(5,293)	(0)	(5,723)	(100)	(56,546)	
Australia	20	1,031	_	3,966	74	33,113	
	(20)	(1,031)	(-)	(3,979)	(76)	(32,603)	
China	27	254	-	297	7	2,236	
	(27)	(254)	(-)	(297)	(7)	(2,237)	
EURATOM	48	6,520	0	8,155	166	28,002	
	(48)	(6,521)	(0)	(8,121)	(168)	(26,781)	
Kazakhstan	_	-	-	37	1	_	
	(-)	(-)	(-)	(37)	(1)	(-)	
Republic of Korea	_	_	_	_ ()	_	_	
	(-)	(-)	(-)	(-)	(-)	(-)	
Viet Nam	(-)	(-)	(-)	(-)	(-)	(-)	
	(-)	(-)	(-)	(-)	(-)	(-)	
Jordan	(-)	(-)	(-)	(-)	(-)	(-)	
	_	_	_	67	3		
Russia	(-)	(-)	(-)	(67)	(3)	(-)	
T .	-	_	=	-			
Turkey	(-)	(-)	(-)	(-)	(-)	(-)	
	_	_	_	_	_	_	
United Arab Emirates	(-)	(-)	(-)	(-)	(-)	(-)	
India	_	_	_	_	_	_	
India	(-)	(-)	(-)	(-)	(-)	(-)	
IAEA	1	2	=	0	0	1	
IULU	(1)	(2)	(-)	(0)	(0)	(1)	
Other	168	2,075	4	357	8	4,359	
	(168)	(2,075)	(4)	(358)	(8)	(4,249)	

⁻ This table shows the weight of nuclear material subject to each bilateral nuclear cooperation agreement or agreement on the supply of uranium from the IAEA. Multiple agreements sometimes apply to the same nuclear material. In such cases, the material is counted in multiple times.

⁻ Records in 2022 are shown in parentheses below for comparison.

⁻ In the table, "-" indicates that there is no inventory, and "0" indicates that there is an inventory of less than 0.5.

^{*} Categorized in accordance with the Law for the Regulations of Nuclear Source Material, Nuclear Fuel Material and Reactors (Nuclear Reactor Regulation Law) and the relevant cabinet order.