

Status of Gaseous and Liquid Waste Management

① Commercial Power Reactor Facilities

Power plant		Radioactive gaseous waste		Radioactivity Radioactive liquid waste (excluding ³ H) (Bq)
		Noble gas (Bq)	Iodine (Bq)	
*1 Japan Atomic Power Company Co., Ltd Tokai Power Station	Nuclear reactor facilities total		-	⁴ 2.8 × 10
	Annual release			⁷ 7.4 × 10
	Target control level	-	-	
Japan Atomic Power Company Co., Ltd. Tokai Daini Power Station	Nuclear reactor facilities total	N.D.	N.D.	N.D.
	Annual release	¹⁵ 1.4 × 10	¹⁰ 5.9 × 10	¹⁰ 3.7 × 10
	Target control level			
Japan Atomic Power Company Co., Ltd. Tsuruga Power Station	Nuclear reactor facilities total	⁸ 7.4 × 10	N.D.	N.D.
	Annual release	¹⁵ 1.7 × 10	¹⁰ 3.8 × 10	¹⁰ 7.4 × 10
	Target control level			
Tohoku Electric Power Co., Inc. Onagawa Nuclear Power Station	Nuclear reactor facilities total	N.D.	N.D.	N.D.
	Annual release	¹⁵ 3.8 × 10	¹¹ 1.3 × 10	¹⁰ 1.1 × 10
	Target control level			
Tohoku Electric Power Co., Inc. Higashidori Nuclear Power Station	Nuclear reactor facilities total	N.D.	N.D.	N.D.
	Annual release	¹⁵ 1.2 × 10	¹⁰ 2.0 × 10	⁹ 3.7 × 10
	Target control level			
Tokyo Electric Power Co., Inc. Fukushima Daiichi Nuclear Power Station	Nuclear reactor facilities total	N.D.	N.D.	N.D.
	Annual release	¹⁵ 8.8 × 10	¹¹ 4.8 × 10	¹¹ 2.2 × 10
	Target control level			
Tokyo Electric Power Co., Inc. Fukushima Daini Nuclear Power Station	Nuclear reactor facilities total	N.D.	N.D.	N.D.
	Annual release	¹⁵ 5.5 × 10	¹¹ 2.3 × 10	¹¹ 1.4 × 10
	Target control level			
Tokyo Electric Power Co., Inc. Kashiwazaki-Kariwa Nuclear Power Station	Nuclear reactor facilities total	N.D.	N.D.	N.D.
	Annual release	¹⁵ 6.7 × 10	¹¹ 2.3 × 10	¹¹ 2.5 × 10
	Target control level			
Chubu Electric Power Co., Inc. Hamaoka Nuclear Power Station	Nuclear reactor facilities total	N.D.	N.D.	N.D.
	Annual release	¹⁵ 6.3 × 10	¹¹ 3.1 × 10	¹¹ 1.8 × 10
	Target control level			
Hokuriku Electric Power Co. Shika Nuclear Power Station	Nuclear reactor facilities total	N.D.	N.D.	N.D.
	Annual release	¹⁵ 1.1 × 10	¹⁰ 3.0 × 10	¹⁰ 3.7 × 10
	Target control level			
Chugoku Electric Power Co., Inc. Shimane Nuclear Power Station	Nuclear reactor facilities total	N.D.	N.D.	N.D.
	Annual release	¹⁵ 2.5 × 10	¹¹ 1.3 × 10	¹⁰ 7.4 × 10
	Target control level			

*1: Due to the commencement of the decommissioning process on December 4, 2001, ⁶⁰Co, ¹³⁴Cs and ¹³⁷Cs are the subjects of the annual release control targets for radioactive liquid waste.

Power plant		Radioactive gaseous waste		Radioactivity Radioactive liquid waste (excluding ³ H) (Bq)
		Noble gas (Bq)	Iodine [¹³¹ I] (Bq)	
Hokkaido Electric Power Co., Inc.	Nuclear reactor facilities total	⁹ 3.4×10	N.D.	N.D.
Tomari Power Station	Annual release Target control level	¹⁵ 1.1×10	¹⁰ 1.1×10	¹⁰ 7.4×10
Kansai Electric Power Co., Inc.	Nuclear reactor facilities total	⁹ 1.9×10	N.D.	N.D.
Mihama Power Station	Annual release Target control level	¹⁵ 2.1×10	¹⁰ 7.4×10	¹¹ 1.1×10
Kansai Electric Power Co., Inc.	Nuclear reactor facilities total	¹⁰ 1.6×10	N.D.	⁵ 3.1×10
Takahama Power Station	Annual release Target control level	¹⁵ 3.3×10	¹⁰ 6.2×10	¹¹ 1.4×10
Kansai Electric Power Co., Inc.	Nuclear reactor facilities total	¹¹ 4.1×10	⁸ 1.9×10	N.D.
Ohi Power Station	Annual release Target control level	*2 ¹⁵ 3.9×10	¹¹ 1.0×10	¹¹ 1.4×10
Shikoku Electric Power Co., Inc.	Nuclear reactor facilities total	⁹ 3.9×10	N.D.	N.D.
Ikata Power Plant	Annual release Target control level	¹⁵ 1.5×10	¹⁰ 8.1×10	¹¹ 1.1×10
Kyushu Electric Power Co., Inc.	Nuclear reactor facilities total	¹⁰ 1.6×10	N.D.	N.D.
Genkai Nuclear Power Plant	Annual release Target control level	¹⁵ 2.2×10	¹⁰ 5.9×10	¹¹ 1.4×10
Kyushu Electric Power Co., Inc.	Nuclear reactor facilities total	¹⁰ 4.4×10	N.D.	N.D.
Sendai Nuclear Power Station	Annual release Target control level	¹⁵ 1.6×10	¹⁰ 6.2×10	¹⁰ 7.4×10

Notes: The radioactivity (Bq) of gaseous (or liquid) waste is obtained by multiplying the concentration of the radioactive material (Bq/cm³) in the released gas (or liquid) by the amount of released gas (or liquid) (m³). Values lower than the detection limit of radioactivity are indicated as N.D.

The detection limits are as follows.

Radioactive noble gases: 2×10^{-2} (Bq/cm³) or less

Radioactive iodine: 7×10^{-9} (Bq/cm³) or less

Radioactive liquid waste (excluding ³H): 2×10^{-2} (Bq/cm³) or less (the ⁶⁰Co value is used)

*2: According to the amendment to the Reactor Facility Safety Regulations, the annual gaseous radioactive release control target levels for noble gases have been changed since October 2004.