

## EPEAT 4.7.2.1 Public disclosure of key environmental aspects

### Plan with goals, targets and objectives

Canon environmental Goal is the achievement of Canon Environmental Vision. Through technological innovation and improved management efficiency, Canon aims to realize a society that promotes both enriched lifestyles and the global environment.

<http://global.canon/en/environment/vision.html>

Canon has formulated an action plan and monitors the progress of its activities to systematically promote efforts to achieve its Environmental Vision. The results of activities are evaluated and verified each year with a view to incorporating this feedback into future activities.

<http://global.canon/en/environment/target.html>

The key environmental aspects show as follows;

- a) Greenhouse Gas Emissions: Canon has long understood the importance of preventing global warming. We have promoted energy conservation activities across the Group, including developing technologies to prevent global warming and making improvements to production facilities and air conditioning equipment that consume substantial amounts of energy.

The following table shows the data for main sites.

		(t-CO <sub>2</sub> )	
		2017	2018
Greenhouse Gas Emissions	Scope1	174,342	160,439
	Scope2	963,185	965,720
	Scope1&2	1,137,527	1,126,159

\* We calculated the greenhouse gas emissions based on a GHG protocol (WRI/WBCSD).

b) Water: Canon aims to reduce the amount of water used in the business activities of the entire Canon group (global). To this end, we promote water-saving measures and recycling and reduce the use of water from natural water systems such as rivers and groundwater.

The following table shows the data for main sites.

		2017	2018	
Total water withdrawal by source	Industrial water (thousand m <sup>3</sup> )	3,145	3,256	
	Groundwater (thousand m <sup>3</sup> )	1,559	1,609	
	Municipal water (thousand m <sup>3</sup> )	5,001	4,859	
	Total water withdrawal (thousand m <sup>3</sup> )	9,706	9,725	
Total volume of water recycled	Total volume of water recycled (thousand m <sup>3</sup> )	1,893	1,559	
	A ratio for total water (%)	19.5	16.0	
Total water discharge by quality and destination	Public water body	Total water discharge (thousand m <sup>3</sup> )	2,316	1,689
		Average_BOD (mg/L)	8	12
		Average_SS (mg/L)	7	8
	Sewage	Total water discharge (thousand m <sup>3</sup> )	5,481	5,774
		Average_BOD (mg/L)	42	41
		Average_SS (mg/L)	52	26

c) Waste: Canon has focused on enhancing technologies for the reuse of resources in a bid to further restrict the generation of actual waste. Our various operational sites employ a range of in-house recycling schemes, including reprocessing waste plastic from injection molding or recycling it for other items.

The following table shows the data for main sites.

		(t)	
		2017	2018
Waste	All solid waste generated	112,850	117,787
	Discard that have been reduced (from the defined base year: previous year)	-14,433	-4,937
	Discard that have been reused or recycled	100,260	105,337
	Solid waste that is landfilled	2,159	2,138
	Solid waste that sent to waste-to-energy	8,001	7,736
	Solid waste that sent to incineration	2,429	2,577
	Solid waste that sent to other disposal facilities	0	0

- d) Toxics: Canon strives to eliminate or reduce hazardous chemical substances used in the manufacturing process. For substances difficult to eliminate or reduce, our policy is to minimize their release into the air or water.

The following table shows the data for main sites.

**2018 List of chemical substances subjected to the PRTR Act (Global)**

Directive No.	Name	Emissions volume		Transfer volume		
		Atmospheric emissions amount	Public waterway emissions amount	Amount Transferred to sewage system	Amount of waste transferred	Amount of recovered substance transferred
7	n-butyl acrylate	1	0	0	0	55,333
20	2-aminoethanol	269	43	2	13,476	13,128
31	antimony and its compounds	1	0	0	0	130
53	ethylbenzene	781	7	0	8,237	15,100
71	ferric chloride	0	0	0	2	167,679
80	xylene	7,969	9	0	7,849	145,612
125	monochlorobenzene	1,807	0	0	9,679	48,381
128	chloromethane; methyl chloride	4	0	0	0	0
150	1,4-dioxane	441	0	0	0	642
202	Divinylbenzene	0	0	0	0	62
232	N,N-dimethylformamide	288	0	0	0	366
240	styrene	259	0	0	0	135,949
259	Tetraethylthiuram disulfide	0	0	0	0	0
296	1,2,4-trimethylbenzene	196	0	0	20	13,511
298	tolylene diisocyanate	0	0	0	0	334
299	Toluidine	1	0	0	0	0
300	toluene	12,690	34	0	2,028	70,094
306	Hexamethylene diacrylate	0	0	0	0	83
308	nickel	299	0	298	2	1,555
309	nickel compounds	0	0	0	11	2,767
343	pyrocatechol (aka, catechol)	10	0	0	0	3,320
349	phenol	72	0	0	2	2,618
374	hydrogen fluoride and its water-soluble salts	5	23	1,200	0	542
395	water-soluble salts of peroxodisulfuric acid	0	0	38	1	4,837
408	Poly(oxyethylene)(1,1,3,3-tetramethylbutyl)phenyl ether	0	0	0	0	950
412	manganese and its compounds	0	0	0	0	226
438	Methylnaphthalene	118	0	0	0	670
448	methylenebis (4,1-cyclohexylene) diisocyanate	1	0	0	0	16,022

## 2017 List of chemical substances subjected to the PRTR Act (Global)

(Unit: kg)

Directive No.	Name	Emissions volume		Transfer volume		
		Atmospheric emissions amount	Public waterway emissions amount	Amount Transferred to sewage system	Amount of waste transferred	Amount of recovered substance transferred
7	n-butyl acrylate	1	0	0	0	40,957
20	2-aminoethanol	91	0	2	0	15,991
31	antimony and its compounds	90	0	0	0	305
53	ethylbenzene	790	15	0	103	18,770
71	ferric chloride	0	0	0	0	161,449
80	xylene	2,793	23	0	330	141,400
125	monochlorobenzene	1,599	0	0	56	57,530
128	chloromethane; methyl chloride	4	0	0	0	0
150	1,4-dioxane	547	0	0	0	812
202	Divinylbenzene	0	0	0	0	80
232	N,N-dimethylformamide	365	0	0	0	520
240	styrene	277	0	0	0	151,434
259	Tetraethylthiuram disulfide	0	0	0	0	13
296	1,2,4-trimethylbenzene	7,586	0	0	1	24,734
298	tolylene diisocyanate	0	0	0	0	330
299	Toluidine	3	0	0	0	0
300	toluene	17,997	140	0	3,349	69,144
306	Hexamethylene diacrylate	0	0	0	0	38
308	nickel	0	0	0	1	1,037
309	nickel compounds	0	0	0	19	3,778
343	pyrocatechol (aka, catechol)	12	0	0	0	4,076
349	phenol	11	0	0	0	187
374	hydrogen fluoride and its water-soluble salts	4	60	1,639	0	664
395	water-soluble salts of peroxodisulfuric acid	0	0	41	0	5,245
408	Poly(oxyethylene)(1,1,3,3-tetramethyl)	0	0	0	0	1,192
412	manganese and its compounds	0	0	0	22	5,117
438	Methylnaphthalene	104	0	0	0	591
448	methylenebis (4,1-cyclohexylene) diisocyanate	0	0	0	0	5,376