

Environmental Data

Environmental Data Aggregation Range

Data item	Scope of coverage	List of companies covered
Environmental data	In Japan	Manufacturing Division of Furukawa Industrial Machinery Systems Co., Ltd.; Takasaki Yoshii Works of Furukawa Rock Drill Co., Ltd.; Sakura Works of Furukawa UNIC Corporation; Iwaki Works, Semiconductor Material Production Section (Semiconductor Material Plant), and Optical Parts Works Production Section (Optical Parts Plant) of Furukawa Denshi Co., Ltd.; Osaka Works of Furukawa Chemicals Co., Ltd.; Ashio Office of Furukawa Co., Ltd.; Furukawa Castec Co., Ltd.; Ashio Rock Drill Co., Ltd.; and FRD Iwaki Co., Ltd.
Environmental accounting	In Japan	Manufacturing Division of Furukawa Industrial Machinery Systems Co., Ltd.; Takasaki Yoshii Works of Furukawa Rock Drill Co., Ltd.; Sakura Works of Furukawa UNIC Corporation; Iwaki Works, Semiconductor Material Production Section (Semiconductor Material Plant), and Optical Parts Works Production Section (Optical Parts Plant) of Furukawa Denshi Co., Ltd.; Osaka Works of Furukawa Chemicals Co., Ltd.; Ashio Office of Furukawa Co., Ltd.; Furukawa Castec Co., Ltd.; Ashio Rock Drill Co., Ltd.; FRD Iwaki Co., Ltd.; and Advanced Technology Department and Material Research & Development Department of Furukawa Co., Ltd.

Environmental Impact Emissions

Data item	Unit	FY2018	FY2019	FY2020	FY2021	FY2022	
INPUT							
Total energy consumption	Volatile oil (Gasoline)	kl	31	33	34	30	32
	Kerosene	kl	368	301	231	205	210
	Diesel oil	kl	166	195	204	170	210
	Fuel oil A	kl	252	221	211	170	33
	Liquefied petroleum gas (LPG)	t	304	359	381	314	345
	City gas	(thousand m ³)	569	889	848	773	906
	Electricity	(thousand kWh)	42,234	43,593	36,441	36,414	40,614
Energy consumption	—	(thousand GJ)	483	511	438	427	472
Total water withdrawal	Clean water	(thousand m ³)	122	141	120	109	97
	Industrial water	(thousand m ³)	500	551	560	562	521
	Groundwater	(thousand m ³)	1	0	0	0	0
	Total	(thousand m ³)	623	692	680	671	618
OUTPUT							
CO ₂ emissions	Scope 1	t-CO ₂	4,315	5,045	4,838	4,192	4,296
	Scope 2	t-CO ₂	21,387	21,103	17,092	16,711	17,808
	Total	t-CO ₂	25,702	26,148	21,930	20,903	22,104
Wastewater volume	Underground infiltration	(thousand m ³)	14	4	3	9	9
	Rivers, etc.	(thousand m ³)	262	340	325	294	256
	Sewage (Groundwater)	(thousand m ³)	119	111	128	150	131
	Miscellaneous	(thousand m ³)	15	22	21	21	21
	Total	(thousand m ³)	410	477	477	474	417
Reused and recycled material (4)=(1)+(2)+(3)	Sold as material with some value (1)	t	2,928	3,357	3,204	2,456	3,045
	Collected at no cost (2)	t	47	46	43	39	56

Furukawa Company Group ESG Data 2022

	Recycled on payment of processing fee (3)	t	2,048	2,354	2,311	2,228	1,804
	Total	t	5,023	5,757	5,558	4,723	4,905
Total emissions including waste, etc.	—	t	6,884	7,160	7,039	5,912	6,347
Percentage recycled *1	—	%	73.0	80.4	79.0	79.9	77.3
Percentage of materials with value *2	—	%	42.5	46.9	45.5	41.5	48.0
Final waste disposal volume	—	t	1,485	512	491	404	470
Percentage of waste finally disposed of*3	—	%	21.6	7.2	7.0	6.8	7.4
Volatile organic compounds (VOC) emissions volume	—	t	205	181	161	145	144
Nitrogen oxides (NOx) emissions volume	—	t	2	2	2	2	1
Sulfur oxides (SOx) emissions volume	—	t	2	2	2	2	2

*1: (4) / Total emissions including waste, etc.

*2: (1) / Total emissions including waste, etc.

*3: Final waste disposal volume/Total emissions including waste, etc.

Management of Chemical Substances

● Emission and Transfer of Substances Required to Be Reported under the PRTR System *1

Numbers in blue: Decreased from the previous fiscal year

Numbers in red: Increased from the previous fiscal year (unit: kg/year; or mg-TEQ/year for Dioxins only)

Substance number	Chemical substance	Emissions								Volume transferred			
		Atmosphere		Public waters		Soil		Landfill at works		Transfer to sewer		Outside of works	
		FY2021	FY2022	FY2021	FY2022	FY2021	FY2022	FY2021	FY2022	FY2021	FY2022	FY2021	FY2022
53	Ethylbenzene	24,064	26,127	0	0	0	0	0	0	0	0	1,713	1,840
75	Cadmium and its compounds	0	0	0	0	0	0	0	0	0	0	2,798	5
80	Xylene	32,486	36,285	0	0	0	0	0	0	0	0	3,766	3,982
87	Chromium and chromium (III) compounds	1	1	0	0	0	0	0	0	0	0	17	27
243	Dioxins	4.9	8.3	0	0	0	0	0	0	0	0	0.06	0.19
272	Copper salts (water-soluble, except complex salts)	0	0	0	0	0	0	0	0	7	7	0	0
296	1,2,4-trimethylbenzene	3,759	3,548	0	0	0	0	0	0	0	0	477	408
297	1,3,5-trimethylbenzene	1,012	977	0	0	0	0	0	0	0	0	162	142
300	Toluene	36,255	36,293	0	0	0	0	0	0	0	0	1,172	1,029
308	Nickel	0	0	0	0	0	0	0	0	0	0	0	1
332	Arsenic and its inorganic compounds	8	4	0	0	0	0	0	0	0	0	2,452	3,991
374	Hydrogen fluoride and its water-soluble salts	0	0	3	6	0	0	0	0	0	0	1,277	2,090
412	Manganese and its compounds	5	16	0	0	0	0	0	0	0	0	26	148
453	Molybdenum and its compounds	0	0	0	0	0	0	0	0	0	0	0	2
Fiscal year total (excluding Dioxins)		97,590	103,251	3	6	0	0	0	0	7	7	13,860	13,665

*1 PRTR: Pollutant Release and Transfer Register

Environmental Accounting

● Environmental Conservation Costs (Categories Corresponding to Business Activities) (Millions of yen)

Category		Content of the principal activities	Investments	Costs
(1) Business area costs			305	876
Breakdown	Pollution prevention cost	Cost for preventing air pollution and water pollution	256	609
	Global environment conservation cost	Cost for saving energy and maintenance and management of forests owned by the Company	46	66
	Resource circulation cost	Cost for recycling, waste processing, and effective use of water	3	201
(2) Upstream and downstream costs		Cost for recycling, recovering and re-commercialization of products from the market	0	12
(3) Administration cost		Cost for operating ISO 14001 standards, environmental education, cleanup and greening of business sites	10	67
(4) R&D cost		R&D cost to develop products that contribute to environmental conservation	0	167
(5) Social activity costs		Cost associated with various social activities including cleanup and greening of neighborhood areas, etc.	0	9
(6) Environmental remediation cost		Cost allocated for recovery from environmental degradation due to business activities	0	0
Total			315	1,131

● **Environmental Conservation Benefit**

Environmental conservation benefit category	Environmental performance indicator (unit)		FY2021	FY2022	Difference from the previous fiscal year
Environmental conservation benefit related to resources input into business activities	Total energy input volume	(thousand GJ)	427	472	Increased by 45thousand GJ
	Total water withdrawal	(thousand m ³)	671	618	Reduced by 52thousand m ³
Environmental conservation benefit related to waste or environmental impact originating from business activities	Volume of greenhouse gas emissions	(t-CO ₂)	20,903	22,104	Increased by 1,201t-CO ₂
	Total emissions including waste, etc.	(t)	5,912	6,347	Increased by 435t

● **Economic Impacts of Environmental Conservation (Material Impacts)(Millions of yen)**

Content of the benefit		Amount
Resource circulation (gains on sale of valuables, etc.)	Gains on sale of stainless steel, iron, etc.	244
Energy-saving effect	Reduction of electric power purchasing costs due to the operation of steam turbine generators	44
Total		288

Social Data

● Employee Diversity

Data item		Unit	Scope of coverage	FY2018	FY2019	FY2020	FY2021	FY2022
Number of employees		Persons	Consolidated	2,690	2,757	2,755	2,752	2,804
	Male	Persons		2,299	2,342	2,344	2,339	2,367
	Female	Persons		391	415	411	413	437
Average age		Age	Domestic employees	42.7	42.3	42.2	42.5	44.4
	Male	Age		43.2	42.8	42.6	42.9	44.9
	Female	Age		38.4	38.3	38.8	39.1	40.9
Years of continuous employment		Years	Domestic employees	17.3	17	16.7	16.9	16.7
	Male	Years		17.9	17.7	17.3	17.5	17.3
	Female	Years		12.3	11.7	12.1	12.5	12.2
Number of managers			Consolidated	653	636	647	665	672
	Male	Persons		642	627	634	651	654
	Female	Persons		11	9	13	14	18
Percentage of female managers		%	Consolidated	1.69	1.42	2.01	2.11	2.68
Number of foreign national employees		Persons	Consolidated	585	590	585	567	547
Percentage of employees with disabilities		%	Non-consolidated basis	3.49	3.48	2.89	2.18	1.86
Number of older employees (60 and older)		Persons	Domestic employees	208	219	223	223	267
	Male	Persons		190	202	212	214	250
	Female	Persons		18	17	11	9	17
Number of recent graduate hires * Hired in Japan		Persons	Employees of Furukawa Co., Ltd.	43	62	61	58	70
	Male	Persons		39	53	56	46	54
	Female	Persons		4	9	5	12	16
	Foreign nationals	Persons		0	3	6	4	4
Number of persons terminated from employment * Excluding retirements		Persons	Employees of Furukawa Co., Ltd.	27	25	34	33	48
	Male	Years		25	24	31	26	44
	Female	Years		2	1	3	7	4

● Work-life Balance

Data item		Unit	Scope of coverage	FY2018	FY2019	FY2020	FY2021	FY2022
Number of employees taking parental leave		Persons	Employees of Furukawa Co., Ltd.	43	39	37	44	50
	Male	Persons		35	33	28	34	38
	Female	Persons		8	6	9	10	12
Percentage of employees taking parental leave		%	Employees of Furukawa Co., Ltd.	87.8	88.6	97.4	91.7	83.3
	Male	%		85.4	86.8	96.6	89.5	79.2
	Female	%		100	100	100	100	100
Average number of days taken for parental leave	Male	Days	Employees of Furukawa Co., Ltd.	13.9	21.4	6	18.6	9.6
	Female	Days		390.5	499.0	320.3	430.5	386.5
Percentage of employees returning to work after having taken parental leave		%		100	100	100	100	100
Number of employees taking caregiver leave		Persons		0	1	0	0	0
Prescribed working hours		Hours	—	1,891	1,891	1,891	1,891	1,891
Extra working hours		Hours	Employees of Furukawa Co., Ltd.	322	305	268	183	226
Hours of paid annual leave taken		Hours	Furukawa Co., Ltd.	76	79	76	85	92
Total actual working hours		Hours	Furukawa Co., Ltd.	2,138	2,117	2,083	1,952	1,986

Furukawa Company Group ESG Data 2022

Overtime hours (monthly average)		Hours	Employees of Furukawa Co., Ltd.	26.85	25.40	22.36	15.22	18.80
Percentage of paid annual leave taken		%		48.2	51.0	53.2	61.6	66.5

● Safety Performance

Data item	Unit	Scope of coverage	FY2018	FY2019	FY2020	FY2021	FY2022
Number of industrial incidents requiring leave of absence*1	Cases	In Japan consolidated	4	2	1	1	5
Industrial accident frequency*2	—	In Japan consolidated	0.86	0.43	0.21	0.22	1.03
	Reference for comparison: All industries*4	—	1.66	1.83	1.80	1.95	2.09
	Reference for comparison: Manufacturing industries*5	—	1.02	1.20	1.20	1.21	1.31
Industrial accident severity*3	—	In Japan consolidated	0.05	0.04	0.06	0.01	0.05
	Reference for comparison: All industries*6	—	0.09	0.09	0.09	0.09	0.09
	Reference for comparison: Manufacturing industries*7	—	0.08	0.10	0.10	0.07	0.06

*1 Frequency and severity are calculated on the basis of incidents requiring leaves of absence of at least four days.

*2 Accident frequency refers to the rate of industrial accidents with casualties per one million total working hours.

*3 Accident severity refers to the number of working days lost per 1,000 total work hours.

*4,5,6,7 Figures for all industries and for manufacturing industries are the Survey on Industrial Accidents conducted by Ministry of Health, Labor and Welfare.

Governance Data

Officers

Data item		Unit	Scope of coverage	FY2018	FY2019	FY2020	FY2021	FY2022
Number of directors under Articles of Incorporation		Persons	Non-consolidated basis	Up to 12 persons	Up to 12 persons	Up to 12 persons	Up to 12 persons	Up to 12 persons
Number of directors* ¹	Total	Persons	Non-consolidated basis	9	9	9	9	9
	Number of outside directors included	Persons		3	3	3	3	3
	Number of independent directors included	Persons		2	2	3	3	3
	Number of female directors included	Persons		0	0	1	1	1
Number of executive officers* ²	Total	Persons	Non-consolidated basis	16	18	16	16	15
	Number of female executive officers included	Persons		0	0	0	0	0

*1: As of end of September 2022
 Number of directors: 9
 Number of outside directors included: 3
 Number of independent directors included: 3
 Number of female directors included: 1

*2: As of end of September 2022
 Number of executive officers: 13
 Number of female executive officers included: 0

Audit System

● Number of Audit System Personnel

Data item		Unit	Scope of coverage	FY2018	FY2019	FY2020	FY2021	FY2022
Number of Audit & Supervisory Board Members under Articles of Incorporation		Persons	Non-consolidated basis	Up to 5 persons	Up to 5 persons	Up to 5 persons	Up to 5 persons	Up to 5 persons
Number of Audit & Supervisory Board Members	Total	Persons	Non-consolidated basis	4	4	4	4	4
	Number of outside Audit & Supervisory Board Members included	Persons		2	2	2	2	2
	Number of independent Audit & Supervisory Board Members included	Persons		1	1	1	1	1
Certified public accountants who conducted account auditing services	Designated limited partners	Persons	Consolidated	2	2	2	2	2
	Employees conducting auditing operations	Persons		8	7	6	5	6
	Certified public accountants other than the above	Persons		9	11	11	17	15
Number of Internal Audit Department personnel		Persons	Non-consolidated basis	5	5	5	5	5

● Internal Audit Performance

Data item		Unit	Scope of coverage	FY2018	FY2019	FY2020	FY2021	FY2022
Number of companies that conducted internal audit	Total	Company	Consolidated	9	16	6	2	5
	Number of overseas consolidated subsidiaries included	Company		2	9	2	0	0
Number of companies where follow-up audits were conducted	Total	Company	Consolidated	5	8	7	6	2
	Number of overseas consolidated subsidiaries included	Company		2	2	4	2	0