## **Environmental Impact Data**

## **■**INPUT

## FY2021 FY2020 FY2022 **Energy consumption** 2,054,950 1 2,197,942 1 2,067,582 Energy intensity GJ/100 million yen 1.092 808 722 Total electricity consumption 331,539 361,089 342,676 Electricity from renewable MWh 66,149 96,590 energy sources MWh 96,500 Purchased power 66,118 In-house power generation <sup>3</sup> MWh 24 31 90 Electricity from non-renewable energy sources 331,515 MWh 294,940 246,086 Rate of renewable energy use 0.01 18 28 Heavy oil, light oil, gasoline 980 KL1,084 1,087 18,241 19,010 17,597 thousand m<sup>3</sup> Natural gas, city gas IPG · ING 155 197 174 Materials 37,083 31,431 18,079 t Raw materials t 34,376 27,471 14,839 Chemical substances t 2,707 3,960 3,240 Water resources 3,994 4,902 4,336 Total water withdrawal thousand m By water Municipal water thousand m<sup>3</sup> 1,043 1,203 993 2,951 3,343 3,700 Ground water thousand m<sup>3</sup> Recycled water volume thousand m<sup>3</sup> 3,145 3,383 3,305 Recycling rate 44 41 43

Data boundary

FY2020 and FY2021: Shinko Group in Japan and overseas production sites

Overseas production sites: KOREA SHINKO MICROELECTRONICS CO., LTD. (KSM)
SHINKO ELECTRONICS (MALAYSIA) SDN. BHD. (SEM)
SHINKO ELECTRIC INDUSTRIES (WUXI) CO., LTD. (SEW)

FY2022: Shinko Group in Japan and overseas production sites

Overseas production sites: KOREA SHINKO MICROELECTRONICS CO., LTD. (KSM)
SHINKO ELECTRONICS (MALAYSIA) SDN. BHD. (SEM)

Some items have totals that do not match due to rounding

No water intake from water stress areas

- <sup>1</sup> In the past, the annual consumption of electricity was multiplied by the calorific value conversion factor specified in Article 4, Appended Table 3 of the Enforcement Regulations of the Law Concerning the Rational Use of Energy, but the method of calculating the annual consumption of electricity was changed as of the current term. Accordingly, the figures for previous years were revised retrospectively.
- <sup>2</sup> Retrospective revision of previous years' figures to improve calculation accuracy
- <sup>3</sup> No energy sales
- <sup>4</sup> Calculated by including energy related to automobiles, etc., traveling outside the premises of plants, etc., which has previously been calculated as within Scope 3. Accordingly, the figures for previous years were revised retrospectively.
- $^{\rm 5}$  Retrospective revision of previous years' figures because of change in method of calculation

 $\label{thm:continuous} \textbf{Switched from recycled water usage rate for process to recycled water usage rate for entire plant.}$ 

Due to data availability restrictions, figures for previous years have not been revised.

From FY2022 onward, calculated by adding VOC to PRTR substances.

Due to data availability restrictions, figures for previous years have not been revised.

## OUTPUT

				FY2020	FY2021	FY2022
Emissions into the air						
Scope1		t-CO <sub>2</sub>	2	45,131	<sup>2</sup> 48,076	44,135
Energy sources t		t-CO <sub>2</sub>	2	43,859	<sup>2</sup> 45,854	42,453
Non-energy sources t		t-CO <sub>2</sub>	2	1,272	2 2,222	1,682
Carbon dioxide (CO <sub>2</sub> )		t-CO <sub>2</sub>	2	39	2 37	40
Methane (CH <sub>4</sub> )		t-CO <sub>2</sub>		0	0	0
Telafluoromethane (CF <sub>4</sub> )		t-CO <sub>2</sub>	2	1,041	<sup>2</sup> 1,722	1,428
Sulfur hexafluoride (SF <sub>6</sub> )		t-CO <sub>2</sub>	Г	0	74	0
Nitrogen trifluoride (NF <sub>3</sub> ) t-CC				0	0	0
Hydrofluorocarbon (HFCs) t-Co				192	388	215
Scope2 Locati	on-based	t-CO <sub>2</sub>	Г	151,821	163,357	153,211
Mark	et-based	t-CO <sub>2</sub>		_	122,797	105,620
NOx		t		29	28	26
SOx		t	Г	1	0	0
Chemical substances						
PRTR		t		5	6	5
VOC		t		101	130	137
Water						
Total water discharge thousand m <sup>3</sup>				3,444	3,996	3,574
		ısand m³		2,339	2,853	2,534
		ısand m³		1,105	1,143	1,039
BOD		t		291	291	213
Waste + Valuables		t		25,130	29,382	26,321
Waste		t		6,134	7,060	6,427
Hazardous Effectively utilized	/ Thermal	t	Г	18	50	136
	Material	t		1,328	1,343	1,540
Non-effe utilized	ctively	t		10	50	6
Non- Effectively hazardous utilized	Thermal	t	Г	171	192	196
	Material	t		4,476	5,285	4,428
Non-effectively utilized		t		132	140	122
Valuables		t		18,996	22,322	19,894
Effective utilization rate %			99.4	99.4	99.5	
(Landfill disposal) t		t	2	19.3	<sup>2</sup> 10.9	25
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<sup>&</sup>lt;sup>6</sup>To improve calculation accuracy, weight conversion factors for procured components are revised accordingly.