

# ESG data

You can view various data of ESG (Environment, Social, and Governance), based on Hamamatsu Photonics's business and social activities.

— Environment

	Unit	2020	2021	2022
Energy	(kl)	[consolidated:34,737] 30,307	[consolidated:35,177] 30,912	[consolidated: 36,290] 31,832
Electricity	(kWh)	[consolidated:125,829,614] 110,355,594	[consolidated:128,468,749] 113,478,245	[consolidated: 135,607,363] 116,661,364
Renewable Electricity	(kWh)	[consolidated:7,099,740] 7,099,740	[consolidated:11,544,463] 11,544,463	[consolidated: 19,855,218] 18,682,466
Carbon Emissions	(t-CO <sub>2</sub> )	[consolidated:651,073] 558,151	[consolidated:602,082] 509,884	[consolidated: 743,427] 624,333
Scope1 (All Direct Carbon Emissions)	(t-CO <sub>2</sub> )	[consolidated:12,796] 11,689	[consolidated:12,599] 11,604	[consolidated: 11,233] 10,398
Scope2 (Indirect Carbon Emissions)	(t-CO <sub>2</sub> )	[consolidated:49,979] 42,359	[consolidated:46,638] 39,701	[consolidated: 46,271] 38,838
Scope3 (Other Indirect Carbon Emissions)	(t-CO <sub>2</sub> )	[consolidated:588,298] 504,103	[consolidated:542,845] 458,579	[consolidated: 685,923] 575,097
Water	(1,000m <sup>3</sup> )	[consolidated:825] 730	[consolidated:825] 742	[consolidated: 879] 799
Tap water	(1,000m <sup>3</sup> )	[consolidated:135] 101	[consolidated:136] 102	[consolidated: 150] 108
Well water	(1,000m <sup>3</sup> )	[consolidated:646] 585	[consolidated:640] 591	[consolidated: 675] 637
Industrial water	(1,000m <sup>3</sup> )	[consolidated:44] 44	[consolidated:49] 49	[consolidated: 54] 54
Wastewater	(1,000m <sup>3</sup> )	[consolidated:788] 706	[consolidated:789] 717	[consolidated: 831] 775
Public sewer	(1,000m <sup>3</sup> )	[consolidated:183] 138	[consolidated:179] 133	[consolidated: 198] 148
River discharge	(1,000m <sup>3</sup> )	[consolidated:605] 568	[consolidated:610] 584	[consolidated: 633] 627
VOC emissions	(t)	13.6	13.7	17.2
Materials	(t)	626	637	790
Participants of chemical substance education	(People)	499	507	692
Industrial waste	(t)	549	618	657
Certain hazardous waste	(t)	307	404	339
Valuable material	(t)	288	317	285
Recycling	(t)	1,077	1,250	1,230
Landfill	(t)	3	4	7
Green Purchasing Rate	(%)	89.6	97.3	95.5
ISO14001 certification (employee ratio)	(%)	98.0	98.1	98.1

\* To be updated after January 2023.

- + Social
- + Governance

(Note) The reporting period is our business year (from October of previous year to September) or the general fiscal year (from April to March of next year).

## Sustainability/CSR >

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