

# Yamaha Group Environmental Data

The Company has changed the indicators and corrected past year data following a review of the data collection method and scope.

Climate Change Mitigation and Adaption ISO 26000 6.5.5		Scope of coverage: Headquarters area, manufacturing and resort facilities (distribution data includes key sales locations) Data collection timing: Fiscal year-end (March 31)				
Indicator	Breakdown [Units]	Fiscal 2018	Fiscal 2019	Fiscal 2020	Fiscal 2021	Fiscal 2022
Scope 1 greenhouse gas emissions GRI-305-1 [10,000 tons-CO <sub>2</sub> ]		2.3	2.2	2.3	2.2	2.4
Scope 2 greenhouse gas emissions GRI-305-2 Market-based standard [10,000 tons-CO <sub>2</sub> ]		13.5	13.9	12.8	11.9	13.1
Scope 1 + Scope 2 greenhouse gas emissions [10,000 tons-CO <sub>2</sub> ]		15.8	16.1	15.1	14.1	15.5
Greenhouse gas emissions intensity*1 GRI 305-4 [10,000 tons-CO <sub>2</sub> /10 billion yen]		0.36	0.37	0.36	0.38	0.38
Reduction of greenhouse gas emissions*2 GRI 305-5 [10,000 tons-CO <sub>2</sub> ]		0.2	-0.3	1.0	1.0	-1.4
Bionic greenhouse gas emissions GRI 305-5 [10,000 tons-CO <sub>2</sub> ]		0.9	0.9	0.6	0.6	0.6
Scope 3 greenhouse gas emissions GRI 305-3	Purchased goods and services [10,000 tons-CO <sub>2</sub> ]	43.7	48.1	48.6	39.6	41.3
	Capital goods*3 [10,000 tons-CO <sub>2</sub> ]	7.9	5.1	6.6	3.6	4.9
	Fuel- and energy-related activities (not included in Scope 1 or Scope 2) [10,000 tons-CO <sub>2</sub> ]	0.7	0.8	0.8	0.7	0.7
	Upstream transportation and distribution [10,000 tons-CO <sub>2</sub> ]	12.5	12.1	11.9	10.8	11.8
	Waste generated in operations [10,000 tons-CO <sub>2</sub> ]	0.4	0.5	0.4	0.3	0.4
	Business travel [10,000 tons-CO <sub>2</sub> ]	0.3	0.3	0.3	0.0	0.1
	Employee commuting [10,000 tons-CO <sub>2</sub> ]	1.2	1.1	1.2	0.7	1.0
	Upstream leased assets [10,000 tons-CO <sub>2</sub> ]	N/A	N/A	N/A	N/A	N/A
	Downstream transportation and distribution [10,000 tons-CO <sub>2</sub> ]	2.2	2.2	2.1	2.2	2.3
	Processing of sold products [10,000 tons-CO <sub>2</sub> ]	N/A	N/A	N/A	N/A	N/A
	Use of sold products*4 [10,000 tons-CO <sub>2</sub> ]	42.7	39.5	42.2	30.7	27.6
	End-of-life treatment of sold products [10,000 tons-CO <sub>2</sub> ]	0.7	0.7	0.6	0.6	0.6
	Downstream leased assets [10,000 tons-CO <sub>2</sub> ]	N/A	N/A	N/A	N/A	N/A
	Franchises [10,000 tons-CO <sub>2</sub> ]	N/A	N/A	N/A	N/A	N/A
	Investments [10,000 tons-CO <sub>2</sub> ]	N/A	N/A	N/A	N/A	N/A
Total Scope 3 greenhouse gas emissions [10,000 tons-CO <sub>2</sub> ]	112.3	110.4	114.7	89.3	90.8	
Logistics-related CO <sub>2</sub> emissions volume*5 G4-EN17 [t-CO <sub>2</sub> ]		125,163	120,920	119,108	107,852	117,630

\*1 Calculated by summation of Scope 1 and Scope 2

\*2 Difference from previous year (summation of Scope 1 and Scope 2)

\*3 Applies to capital expenditures for the period under review

\*4 Applies to musical instruments and audio equipment, figures for fiscal 2016-fiscal 2019 have been restated to better reflect the estimated use times and standard energy consumption of specific products, alternative coefficients for Japanese power utilities have been used

\*5 Category 4 of Scope 3

Energy ISO 26000 6.5.4/6.5.5		Scope of coverage: Headquarters area, manufacturing and resort facilities Data collection timing: Fiscal year-end (March 31)				
Indicator	Breakdown [Units]	Fiscal 2018	Fiscal 2019	Fiscal 2020	Fiscal 2021	Fiscal 2022
Energy consumption GRI 302-1 [MWh]		292,029	349,744	327,948	324,545	358,436
Energy procured from renewable sources [MWh]		25,236	15,959	19,196	26,823	33,209
By region	Japan [MWh]	162,467	219,546	168,951	156,345	165,020
	China [MWh]	54,660	53,944	78,817	78,209	87,459
	Southeast Asia [MWh]	74,902	76,253	80,010	77,060	89,570
	Others [MWh]	—	—	—	12,932	16,387

Prevention of Pollution ISO 26000 6.5.3		Scope of coverage: Headquarters area, manufacturing and resort facilities (★ indicates items applying to facilities in Japan) Data collection timing: Fiscal year-end (March 31)				
Indicator	Breakdown [Units]	Fiscal 2018	Fiscal 2019	Fiscal 2020	Fiscal 2021	Fiscal 2022
Water discharge GRI 306-1 (2016) GRI 303-4 (2018) [10,000 m <sup>3</sup> ]		169.4	173.8	153.9	139.4	148.1
Volume by destination	Fresh surface water [10,000 m <sup>3</sup> ]	96.3	102.1	84.8	77.9	84.3
	Brackish surface water/Seawater [10,000 m <sup>3</sup> ]	0.0	0.0	0.0	0.0	0.0
	Groundwater [10,000 m <sup>3</sup> ]	0.0	0.0	0.0	0.0	0.0
	Municipal/Industrial wastewater treatment plants [10,000 m <sup>3</sup> ]	73.0	71.7	69.1	61.4	63.8
	Wastewater for other organizations [10,000 m <sup>3</sup> ]	0.0	0.0	0.0	0.0	0.0
Nitrogen oxide (NOx) emissions ★ GRI 305-7 [Tons]		29.7	28.4	38.2	35.8	33.1
Sulfur oxide (SOx) emissions ★ GRI 305-7 [Tons]		2.8	4.5	5.4	3.5	4.7
Pollutant release and transfer register (PRTR)-designated substances released ★ GRI 305-7 [Tons]		53.9	47.3	48.9	44.9	44.8
Atmospheric emissions of volatile organic compounds (VOCs) ★ GRI 305-7 [Tons]		184	165	177	182	188
Volume of PRTR-designated substances handled (above 0.1 ton) ★ [Tons]		203	194	191	183	174
Volume of VOCs used ★ [Tons]		393	392	408	387	378
Number of sites subject to environmental risk audits*1	Japan [Sites]	4	4	4	6	3
	Overseas [Sites]	4	4	4	0	3

\*1 Audits by staff with skills and expertise in environmental preservation

Sustainable Resource Use ISO 26000 6.5.4		Scope of coverage: Headquarters area, manufacturing and resort facilities (☆ indicates items applying to facilities in Japan) Data collection timing: Fiscal year-end (March 31)				
Indicator	Breakdown [Units]	Fiscal 2018	Fiscal 2019	Fiscal 2020	Fiscal 2021	Fiscal 2022
Water withdrawals GRI 303-1 (2016)	GRI 303-3 (2018) [10,000 m <sup>3</sup> ]	207	192	180	171	182
Volume by sources	Fresh surface water [10,000 m <sup>3</sup> ]	0.0	0.0	0.0	0.0	0.0
	Brackish surface water/ Seawater [10,000 m <sup>3</sup> ]	0.0	0.0	0.0	0.0	0.0
	Rainwater [10,000 m <sup>3</sup> ]	0.0	0.0	0.0	0.0	0.0
	Groundwater (renewable) [10,000 m <sup>3</sup> ]	107	97	87	88	89
	Groundwater (non-renewable) [10,000 m <sup>3</sup> ]	0.0	0.0	0.0	0.0	0.0
	Produced/process water [10,000 m <sup>3</sup> ]	0.0	0.0	0.0	0.0	0.0
	Municipal supply [10,000 m <sup>3</sup> ]	100	95	94	83	92
	Wastewater from other organizations [10,000 m <sup>3</sup> ]	0.0	0.0	0.0	0.0	0.0
Water consumption [10,000 m <sup>3</sup> ]		45	34	34	40	40
Water recycling GRI 303-3 (2016)	Volume of recycled water [10,000 m <sup>3</sup> ]	20	11	11	8	9
	Recycling rate [%]	9.7	5.7	6.1	4.7	5.2
Timber procurement volume*1	GRI 301-1 [1,000 m <sup>3</sup> ]	85.8	93.8	84.0	75.0	96.8
By type	Solid wood [1,000 m <sup>3</sup> ]	50.4	56.7	49.0	40.9	54.1
	Wood composite [1,000 m <sup>3</sup> ]	35.4	37.1	35.0	33.9	42.7
By region	Japan [1,000 m <sup>3</sup> ]	2.4	1.5	1.7	1.2	1.1
	China [1,000 m <sup>3</sup> ]	9.2	7.8	6.9	5.7	7.5
	Southeast Asia [1,000 m <sup>3</sup> ]	34.0	37.8	34.7	31.1	37.7
	Oceania [1,000 m <sup>3</sup> ]	13.0	14.9	13.4	11.8	21.7
	North America [1,000 m <sup>3</sup> ]	14.4	17.0	14.4	11.6	15.3
	Europe [1,000 m <sup>3</sup> ]	10.3	9.9	9.0	8.0	8.4
	Africa [1,000 m <sup>3</sup> ]	0.8	0.7	0.8	0.7	0.9
	Others [1,000 m <sup>3</sup> ]	1.8	4.2	3.1	4.8	4.2
Waste generated	GRI 306-2 [1,000 tons]	11.3	13.8	13.5	12.3	13.9
Hazardous waste generated*2	GRI 306 [1,000 tons]	—	—	—	1.6	1.7
Electronic component waste generated	GRI 306 [1,000 tons]	—	—	—	0.2	0.2
Recycling activities☆	Waste generated [1,000 tons]	6.2	6.2	6.6	5.3	5.6
	Recycling rate*3 [%]	99	99	99	99	99

\*1 Calculated through system implemented in 2016

\*2 Total of industrial waste designated for special management in Japan and waste oil, waste solvents, waste acid, and waste alkaline at overseas bases

\*3 Calculated using values for the landfill rate

Eco-Friendly Products and Services ISO 26000 6.5/6.7.5		Data collection timing: Fiscal year-end (March 31)				
Indicator	Breakdown [Units]	Fiscal 2018	Fiscal 2019	Fiscal 2020	Fiscal 2021	Fiscal 2022
Yamaha Eco-Products Program*1	Qualified products [Number]	16	53	46	29	14
	Yamaha Eco-Label products [Number]	16	56	58	70	5
Education on eco-friendly designing of products [Recipients]		22	13	16	—	—

\*1 Initiative started in December 2015 aimed at certifying eco-friendly products that meet standards established by Yamaha

ISO 14001 Internal Environmental Audits		Data collection timing: Fiscal year-end (March 31)				
Indicator		Fiscal 2018	Fiscal 2019	Fiscal 2020	Fiscal 2021	Fiscal 2022
Number of employees with internal environmental auditor qualifications (% of total employees)		381 (5.7%)	362 (5.6%)	354 (6.8%)	327 (6.4%)	293 (5.7%)
Number of internal environmental audits		8 (All sites)	8 (All sites)	8 (All sites)	8 (All sites)	8 (All sites)

Environmental Accounting		Scope of coverage: Headquarters area, domestic manufacturing and resort facilities, manufacturing facilities in Indonesia (manufacturing facilities in China and Malaysia added from fiscal 2018) Data collection timing: Fiscal year-end (March 31)				
Indicator	Breakdown [Units]	Fiscal 2018	Fiscal 2019	Fiscal 2020	Fiscal 2021	Fiscal 2022
Environmental costs	Environmental investments [Millions of yen]	780	833	1,089	117	147
	Environmental expenses (personnel and other expenses) [Millions of yen]	1,081	1,426	1,257	1,251	1,295
Environmental benefits	Reduction of CO <sub>2</sub> emissions GRI 305-5 [10,000 tons]	0.1	-0.3	1.0	1.0	-1.4
	Reduction of water consumption [10,000 m <sup>3</sup> ]	14.0	15.0	12.0	9.0	-10.6
Economic benefits	Total savings [Millions of yen]	-123	-61	92	402	-555
	Gain on sales of valuable waste [Millions of yen]	340	333	330	241	322