

Yamaha Group Environmental Data

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

Climate Change Mitigation and Adaption ISO 26000 6.5.5		Scope of coverage: Headquarters Area, Manufacturing/Resort Facilities (distribution data includes key sales locations)				
		Settlement day: March 31				
Indicator	Breakdown [Units]	3/2017	3/2018	3/2019	3/2020	3/2021
GHG Emissions Scope1 GRI-305-1 [10,000 tons-CO ₂]		2.5	2.3	2.2	2.3	2.2
GHG Emissions Scope2 GRI-305-2	market-based [10,000 tons-CO ₂]	13.5	13.5	13.9	12.8	11.9
GHG Emissions Intensity* ¹ GRI 305-4 [10,000 tons-CO ₂ /10 billion yen]		0.38	0.37	0.37	0.38	0.38
Reduction of GHG Emissions* ² GRI 305-5 [10,000 tons-CO ₂]		2.0	0.2	-0.3	1.0	1.0
Bionic GHG Emissions GRI 305-5 [10,000 tons-CO ₂]		-	0.9	0.9	0.6	0.6
GHG Emissions Scope3 GRI 305-3	Purchased goods and services [10,000 tons-CO ₂]	41.4	43.7	48.1	48.6	39.6
	Capital goods* ³ [10,000 tons-CO ₂]	5.6	7.9	5.1	6.6	3.6
	Fuel- and energy-related activities(not included in scope 1 or scope 2) [10,000 tons-CO ₂]	0.7	0.7	0.8	0.8	0.7
	Upstream transportation and distribution [10,000 tons-CO ₂]	11.1	11.1	10.7	11.9	10.8
	Waste generated in operations [10,000 tons-CO ₂]	0.5	0.4	0.5	0.4	0.3
	Business travel [10,000 tons-CO ₂]	0.4	0.3	0.3	0.3	0.03
	Employee commuting [10,000 tons-CO ₂]	1.2	1.2	1.1	1.2	0.7
	Upstream leased assets [10,000 tons-CO ₂]	N/A	N/A	N/A	N/A	N/A
	Downstream transportation and distribution [10,000 tons-CO ₂]	1.8	2.2	2.2	2.1	2.2
	Processing of sold products [10,000 tons-CO ₂]	N/A	N/A	N/A	N/A	N/A
	Use of sold products* ⁴ [10,000 tons-CO ₂]	66.7	60.1	59.4	59.1	47.1
	End-of-life treatment of sold products [10,000 tons-CO ₂]	0.6	0.7	0.7	0.6	0.6
	Downstream leased assets [10,000 tons-CO ₂]	N/A	N/A	N/A	N/A	N/A
	Franchises [10,000 tons-CO ₂]	N/A	N/A	N/A	N/A	N/A
Investments [10,000 tons-CO ₂]	N/A	N/A	N/A	N/A	N/A	
Transport Volume* ⁵ GRI 305-3 [1 million tons ×kilometers]		369,353	374,425	325,439	363,308	30,333
Logistics-related CO ₂ emissions volume* ⁵ G4-EN17 [tons-CO ₂]		110,794	111,330	106,693	119,108	107,853

*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 expenditure for the current period

*4 Applies to musical instruments and audio products. Calculated with an emission factor of 0.5

*5 Category 4 of Scope 3

Energy ISO 26000 6.5.4/6.5.5		Scope of coverage: Headquarters Area, Manufacturing/Resort Facilities Settlement day: March 31				
Indicator	Breakdown [Units]	3/2017	3/2018	3/2019	3/2020	3/2021
Energy Consumption GRI 302-1 [MWh]		292,261	292,029	349,744	327,948	293,658
Renewable Fuel Sources [MWh]		-	16,665	16,989	19,134	23,368
By Region	Japan [MWh]	172,546	162,467	219,546	168,951	156,219
	China [MWh]	51,596	54,660	53,944	78,817	49,684
	Southeast Asia [MWh]	68,120	74,902	76,253	80,010	74,824
	Others [MWh]	-	-	-	-	10,530

Prevention of Pollution ISO 26000 6.5.3		Scope of coverage: Headquarters Area, Manufacturing/Resort Facilities(*: Japan) Settlement day: March 31				
Indicator	Breakdown [Units]	3/2017	3/2018	3/2019	3/2020	3/2021
Water Discharge GRI 306-1 (2016) GRI 303-4 (2018) [10,000 m ³]		178.8	169.4	173.8	153.9	139.4
Volume by Destination	Fresh Surface Water [10,000 m ³]	99.1	96.3	102.1	84.8	77.9
	Brackish Surface Water/Seawater [10,000 m ³]	0.0	0.0	0.0	0.0	0.0
	Groundwater [10,000 m ³]	0.0	0.0	0.0	0.0	0.0
	Municipal/Industrial Wastewater Treatment Plant [10,000 m ³]	79.7	73.0	71.7	69.1	61.4
	Wastewater for Other Organizations [10,000 m ³]	0.0	0.0	0.0	0.0	0.0
Nitrogen Oxide (NOx) Emissions* GRI 305-7 [Tons]		32.6	29.7	28.4	38.2	35.7
Sulfur Oxide (SOx) Emissions* GRI 305-7 [Tons]		4.6	2.8	4.5	5.4	3.6
PRTR-Designated Substances Released* GRI 305-7 [Tons]		52.7	53.9	47.3	48.9	45.0
Volatile Organic Compounds (VOCs) Atmospheric Emissions* GRI 305-7 [Tons]		165	184	165	177	182
Usage of PRTR-Designated Substances/VOCs* [Tons]		206	203	194	191	184
Environmental Audits*	Japan [Sites]	4	4	4	4	6
	Overseas [Sites]	4	4	4	4	0

* Audit by staff who have skills and expertise in environmental preservation

Sustainable Resource Use ISO 26000 6.5.4		Scope of coverage: Headquarters Area, Manufacturing/Resort Facilities(*: Japan) Settlement day: March 31				
		Indicator	Breakdown [Units]	3/2017	3/2018	3/2019
Water Withdrawals GRI 303-1 (2016)	GRI 303-3 (2018) [10,000 m ³]	221	207	192	180	171
Volume by Sources	Fresh Surface Water [10,000 m ³]	0.0	0.0	0.0	0.0	0.0
	Brackish Surface Water/Seawater [10,000 m ³]	0.0	0.0	0.0	0.0	0.0
	Rainwater [10,000 m ³]	0.0	0.0	0.0	0.0	0.0
	Groundwater (Renewable) [10,000 m ³]	92	107	97	94	88
	Groundwater (Non-Renewable) [10,000 m ³]	0.0	0.0	0.0	0.0	0.0
	Produced/Process Water [10,000 m ³]	0.0	0.0	0.0	0.0	0.0
	Municipal Supply [10,000 m ³]	129	100	95	86	83
	Wastewater from Other Organizations [10,000 m ³]	0.0	0.0	0.0	0.0	0.0
Water Consumption [10,000 m ³]		51	45	34	34	32
Water Recycling GRI 303-3 (2016)	Volume of Recycled Water [10,000 m ³]	16	20	11	11	8
	Recycling Rate [%]	7.2	9.7	5.7	6.1	4.7
Wood Materials Usage* ¹ GRI 301-1 [1,000 m ³]		85.2	85.8	93.8	84.0	75.0
By Types	Solid wood [1,000 m ³]	47.4	50.4	56.7	49.0	40.9
	Wood composite [1,000 m ³]	37.8	35.4	37.1	35.0	33.9
By Logging Region	Japan [1,000 m ³]	1.1	2.4	1.5	1.7	1.2
	China [1,000 m ³]	6.9	9.2	7.8	6.9	5.7
	Southeast Asia [1,000 m ³]	34.7	34.0	37.8	34.7	31.1
	Oceania [1,000 m ³]	16.0	13.0	14.9	13.4	11.8
	North America [1,000 m ³]	12.0	14.4	17.0	14.4	11.6
	Europe [1,000 m ³]	8.0	10.3	9.9	9.0	8.0
	Africa [1,000 m ³]	0.5	0.8	0.7	0.8	0.7
	Others [1,000 m ³]	6.1	1.8	4.2	3.1	4.8
Waste Generated GRI 306-2 [1,000 tons]		13.6	11.5	11.3	9.6	10.2
Hazardous Waste Generated GRI 306 [1,000 tons]	* ²	-	-	-	-	1.6
E-waste Generated GRI 306 [1,000 tons]		-	-	-	-	0.2
Recycling Activity *	Waste Generated [1,000 tons]	7.1	6.3	6.2	6.6	5.0
	Recycling Rate* ² [%]	99	99	99	99	99

*1 Counted by the system constructed in fiscal 2017/3

*2 Amount of specially controlled industrial waste for domestic sites and waste oil, solvents, acids and alkalis for overseas sites

*3 Calculated using values of land fill rate

Environmentally Friendly Products and Services ISO 26000 6.5/6.7.5		Settlement day: March 31				
Indicator	Breakdown [Units]	3/2017	3/2018	3/2019	3/2020	3/2021
Yamaha Eco-Products Program *1	Qualified Products [Number]	306*2	16	53	46	29
	Labelling Products [Number]	13	16	56	58	70
Education for Environmentally Friendly Designing of Products [Persons]		17	22	13	16	-

*1 An initiative started in December 2015, aimed at certifying environmentally-friendly products that meet standards established by Yamaha.

*2 Conducted retroactive certification of existing products

ISO 14001 Internal Environmental Audits		Scope of coverage: Headquarters Area, Manufacturing/Resort Facilities in Japan Settlement day: March 31				
Indicator [Units]		3/2017	3/2018	3/2019	3/2020	3/2021
Internal Environmental Auditor (employee ratio) [Persons]		419 (6.1%)	381 (5.7%)	362 (5.6%)	354 (6.8%)	327 (6.4%)
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, Manufacturing/Resort Facilities in Japan, Manufacturing Facilities in Indonesia (Manufacturing Facilities in China and Malaysia Added from FY2018) Settlement day: March 31				
Indicator	Breakdown	3/2017	3/2018	3/2019	3/2020	3/2021
Environmental Costs	Environmental Investments [Million yen]	373	780	833	1,089	117
	Environmental Expenses [Million yen]	1,240	1,081	1,426	1,257	1,251
Environmental Benefits	Reduction of CO ₂ Emissions GRI 305-5 [10,000 tons]	0.5	0.1	-0.3	1.1	1.0
	Reduction of Water Consumption [10,000 m ³]	-7.0	10.8	14.9	11.0	9.0
Economic Benefits	Total Savings [Million yen]	223	449	75	46	530
	Income from Sales of Valuable Wastes [Million yen]	256	383	313	333	241