

ESG Data (E : Environment)

The Group's Environmental Performance

- "The Group's production sites" as stated under the scope of application in each table refers to the following business sites.

Domestic	9 business sites	GS Yuasa International Ltd. (Kyoto, Osadano, Gunma, Ritto and Kawagoe Plants), GS Yuasa Energy Co., Ltd., GS Yuasa Ibaraki Co., Ltd., GS Yuasa Moldings Co., Ltd., GS Yuasa Azumino Co., Ltd.
Overseas	14 business sites	GS Battery (China) Co., Ltd., GS Battery Taiwan Co., Ltd., GS Battery Vietnam Co., Ltd., GS Yuasa Battery Malaysia Sdn. Bhd., PT. Trimitra Baterai Prakasa, PT. Yuasa Battery Indonesia, Siam GS Battery Co., Ltd., Yuasa Battery (Thailand) Pub. Co., Ltd., GS Yuasa Siam Industry Ltd., Inci GS Yuasa Aku Sanayive Ticaret Anonim Sirket, GS Yuasa Battery Manufacturing UK Limited, Yuasa Battery, Inc., Century Yuasa Batteries Pty Ltd., GS Yuasa Hungary Ltd.

- For Scope 3, the calculation boundaries are clearly defined for each category.
- All data is disclosed following a periodic review and the incorporation of the results of that review. Additionally, should changes arise in the scope of application, past results are also retroactively revised as necessary.
- Energy usage and CO2 emissions data are verified by a third party.

CO ₂ emissions ^{*1}		Unit	FY2020	FY2021	FY2022	FY2023	FY2024	Scope of application	
Scope 1	Direct emissions from fossil fuel combustion, etc.	t-CO ₂	63,867	67,085	64,841	57,838	58,153	The Group's production sites	
Scope 2 ^{*2,3}	Indirect emissions from the use of purchased electricity	t-CO ₂	284,985	285,785	249,204	270,299	257,833		
Total (Scope 1+2)		t-CO ₂	348,852	352,870	314,046	328,138	315,986		
Scope 3 ^{*4}	Category 1	Purchased goods and services	t-CO ₂	—	471,173	523,813	560,759	940,714	GS Yuasa International Ltd. (items directly related to product manufacturing)
	Category 2	Capital goods	t-CO ₂	—	45,615	89,778	135,092	160,843	The Group's production sites
	Category 3	Fuel- and energy-related activities not included in scope 1 or scope 2	t-CO ₂	—	86,686	64,815	59,555	60,434	The Group's production sites
	Category 4	Upstream transportation and distribution	t-CO ₂	—	9,484	8,702	8,039	7,979	GS Yuasa International Ltd. (restricted to transportation of freight involving specified shippers)
	Category 5	Waste generated in operations	t-CO ₂	—	1,089	1,226	1,322	1,408	FY2020 : GS Yuasa International Ltd. (4 business sites), 3 main domestic subsidiaries FY2021 : GS Yuasa International Ltd. (5 business sites), 2 main domestic subsidiaries
	Category 6	Business travel	t-CO ₂	—	732	785	867	881	FY2022 : GS Yuasa International Ltd. (4 business sites), 4 main domestic subsidiaries
	Category 7	Employee commuting	t-CO ₂	—	2,103	2,283	2,533	2,562	FY2023, FY2024 : GS Yuasa International Ltd. (5 business sites), 4 main domestic subsidiaries
	Category 12	End-of-life treatment of sold products	t-CO ₂	—	—	18,048	17,930	18,412	GS Yuasa International Ltd. (disposal of our manufactured lead-acid batteries)
	Total	Indirect emissions other than Scope 2	t-CO ₂	—	616,881	709,450	786,096	1,193,233	

*1 Regarding greenhouse gases other than CO₂ are excluded from calculation because their relationship to the Group's business activities is negligible and due to extremely low emissions.

*2 Scope 2 emissions are disclosed based on the market-based method, which calculates emissions by reflecting contractual agreements for purchased electricity and the procurement of renewable energy.

*3 The CO₂ conversion factor in the calculation of CO₂ emissions associated with power usage uses the following published values. However, the conversion factor for electricity derived from renewable energy is set to zero.

Domestic	Annual coefficient for each power company announced in accordance with the Act on Promotion of Global Warming Countermeasures
Overseas	Annual coefficients announced in "Emissions Factors," a publication of the International Energy Agency (IEA).

*4 The Group commenced calculations of Scope 3 emissions in FY2021.

Water intake and Wastewater		Unit	FY2020	FY2021	FY2022	FY2023	FY2024	Scope of application
Water intake	Water for industrial use (Third party water)	1,000 m ³	2,412	2,260	2,130	2,102	2,111	The Group's production sites
	Underground water	1,000 m ³	1,531	1,508	1,440	1,536	1,544	
	Public water supply (Third party water)	1,000 m ³	790	832	795	791	800	
	Total	1,000 m ³	4,733	4,600	4,365	4,429	4,456	
Wastewater	River	1,000 m ³	1,965	1,844	1,741	1,794	1,898	The Group's production sites
	Sewage disposal	1,000 m ³	1,935	1,881	1,702	1,711	1,691	
	Total	1,000 m ³	3,900	3,725	3,444	3,505	3,589	

Provision of Environmentally Considered Products	Unit	FY2020	FY2021	FY2022	FY2023	FY2024	Scope of application
Percentage of environmentally considered products in total sales of all products	%	34.8	36.5	36.4	38.7	36.7	The GS Yuasa Group
Ratio of recycled lead used as lead raw materials in lead-acid batteries	%	54.6	63.3	56.5	65.7	72.4	The GS Yuasa Group

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Usage Status of Renewable Energy	Unit	FY2020	FY2021	FY2022	FY2023	FY2024	Scope of application
In-house power generation	MWh	—	2,367	3,445	7,480	12,524	Certain Group production sites
External procurement	MWh	—	41,869	95,716	94,157	120,366	
Total	MWh	—	44,236	99,161	101,637	132,890	

Environmental Performance of Domestic Business Site

Material Flow in Business Activities			Unit	FY2020	FY2021	FY2022	FY2023	FY2024	Scope of application	
INPUT	Main materials	Lead, sulfuric acid, plastics, etc.	t	186,225	188,020	186,298	193,473	198,821	FY2020	GS Yuasa International Ltd. (4 business sites); 3 main domestic subsidiaries
	Water	Water for industrial use, underground water, public water supply	1,000 m ³	2,455	2,348	2,257	2,381	2,418		
	Energy (crude oil conversion)	Production	kL	96,772	98,869	99,872	100,758	84,196		
		Physical distribution ^{*5}	kL	3,409	3,598	3,302	3,040	3,014	FY2021	GS Yuasa International Ltd. (5 business sites); 2 main domestic subsidiaries
	Used products	Volume of recovered	t	5,006	4,773	4,573	4,515	4,944		
OUTPUT	Waste	Amount of recycling	t	11,126	12,083	12,625	13,634	15,079	FY2022	GS Yuasa International Ltd. (4 business sites); 4 main domestic subsidiaries
		Amount of final disposal	t	598	504	633	625	561		
	Wastewater	River and Sewage disposal	1,000 m ³	2,172	2,020	1,961	2,034	2,025	FY2023 - FY2024	GS Yuasa International Ltd. (5 business sites); 4 main domestic subsidiaries
	Greenhouse gases (CO ₂)	Production ^{*6*7}	t-CO ₂	146,888	134,505	109,634	133,325	151,135		
		Physical distribution ^{*5}	t-CO ₂	8,953	9,484	8,702	8,039	7,979		
	Used products	Amount of recycling	t	4,156	3,952	3,782	3,733	4,093		
		Amount of final disposal	t	850	822	791	782	851		

^{*5} Environmental performance related to transportation refers to actual values for GS Yuasa International Ltd. (4 business sites).

^{*6} Scope 2 greenhouse gas emissions from production activities are disclosed based on the market-based method, which calculates emissions by reflecting contractual agreements for purchased electricity and the procurement of renewable energy.

^{*7} Scope 2 emissions in production activities are calculated using the annual coefficient for each power company announced in accordance with the Act on Promotion of Global Warming Countermeasures. However, the conversion factor for power derived from renewable energy is set as zero.