

2023 Metrics and Key Indicators (continued)

	2022–2023 Trend	2023	2022	2021	2017 Base Year
Energy (continued)					
Global intermediate energy consumption (MWh)⁵	↓	451,817	466,608	441,102	504,826
Purchased electricity		97%	96%	96%	97%
Purchased steam & chilled water		3%	4%	4%	3%
Global direct and intermediate energy consumption (MWh)⁵	↓	493,518	506,427	483,932	546,929
Reduction in global energy consumption from baseline (%)		-10%	-7%	-12%	n/a
Energy use intensity for offices (kWh/sq. ft.)	↓	18.9	21.5	21.4	32.7
◇ Reduction in energy use intensity for offices from baseline (%) ⁴		-42%	-34%	-35%	n/a
Global renewable energy consumption (MWh)	↓	436,210	448,939	416,660	453,518
◇ Percent renewable energy ^{4,8}		100%	100%	100%	94%
Greenhouse Gas (GHG) Emissions					
Scope 1 — Direct (metric tons CO₂-equivalent [tCO₂e])⁵	↑	13,842	12,595	12,648	11,102
Natural gas ⁶		23%	35%	42%	61%
Other fuels ⁷		43%	30%	26%	11%
HFC refrigerants		34%	35%	32%	28%
Scope 2 (location) — Indirect (tCO₂e)⁵	↓	155,105	156,468	145,013	190,782
Purchased electricity		98%	98%	98%	99%
Purchased steam & chilled water		2%	2%	2%	1%
Scope 2 (market) — Indirect (tCO₂e)⁵	↓	9,252	9,821	11,121	18,192
Purchased electricity		68%	67%	70%	85%
Purchased steam & chilled water		32%	33%	30%	15%
Scope 3: Category 6 — Business travel (tCO₂e)⁵	↑	79,915	61,517	21,496	120,335
Commercial air ⁹		90%	84%	67%	81%
Other travel ¹⁰		10%	16%	33%	19%
Total Emissions: Scope 1 & 2 (location) (tCO₂e)⁵	↓	168,947	169,063	157,661	201,884
Total Emissions: Scope 1 & 2 (market) (tCO₂e)⁵	↑	23,094	22,416	23,769	29,294
Total Emissions: Scope 1, 2 (market), and 3 Category 6 (tCO₂e)⁵	↑	103,009	83,933	45,265	149,629
◇ Net Emissions: Scope 1, 2 (market), and 3 Category 6 (tCO₂e)^{4,5}		0	0	0	0
Verified carbon avoidance credits (tCO ₂ e) ¹¹		79,915	57,233	26,116	146,950
Verified carbon removals (tCO ₂ e) ¹¹		23,094	21,820	20,000	0

4 This symbol ◇ before an indicator denotes a commitment through Goldman Sachs' 2025 ESG and Net Zero Commitments and ongoing 2020 Operational Commitments. Further information on these commitments may be found on our Operational Impact pages [here](#). Net Emissions represent achievement of ongoing Carbon Neutral commitment. Reductions are from a 2017 baseline, except plastics, which are from a 2021 baseline or where otherwise noted.

5 Historical energy, water and greenhouse gas metrics were updated to reflect a new methodology in 2023. For originally reported values, please refer to our [2022](#) and [2021](#) Sustainability Reports. Global renewable energy consumption and verified carbon credits reflect the totals at the time of original reporting (excluding the methodology impact).

6 Historical data points may be adjusted to reflect new information and/or changes to accounting methodologies.

7 Other fuels include fuel oil, LPG, vehicle fuel, and jet fuel.

8 The firm sourced renewable electricity equivalent to 100% of global electricity consumption. 96% is in line with RE100 market boundary criteria and requirements for firms joining prior to 2021.

9 This includes impact of incremental changes in air travel emission factors in 2023.

10 This includes charter air, rail/bus, ferry, car, and hotels.

11 The firm purchases third-party-verified carbon offsets (avoidance and/or removal credits) with emission claims that are tracked on the registries of Verra, Green-e, Gold Standard, or other similar platforms. For YE 2023, credits are sourced from a variety of projects: [Madre de Dios REDD projects](#), [Hechu Afforestation Project in Anhui Province](#), [India's Breathing Space Improved Cooking Stoves Programme](#), [Guizhou Province Qianxinan Afforestation Project](#), and [Ascend N2O Abatement project in US](#). Credits are applied to net emissions: Scope 1, 2 (market) and Scope 3 Category 6.