GHG Emissions and Energy Consumption Metrics

Overview

We are committed to being responsible stewards of the environment as we operate our business. On an annual basis 3D Systems collects and discloses data on our scope 1, scope 2, and scope 3 Greenhouse Gas (GHG) emissions and energy consumption across our sites globally. In 2024, we continued our reporting on climate activities in alignment with the Task Force on Climate-Related Financial Disclosures (TCFD) and expanded our measures across our value chain to include GHG scope 3.

Internal Metrics

Overview: Our internal metrics below are used to provide insights to management as we evaluate environmental strategies around further reducing GHG emissions and conserving energy across our facilities. These environmental strategies include assessing our real estate portfolio for opportunities to implement energy efficiency measures and looking for investments into renewable energy sources where feasible. Examples include renewable electricity procurement via solar in a key manufacturing site, sensor lighting applications, and LED lighting upgrades. We continue to monitor and report our energy mix annually as part of our sustainability efforts.

Methodology: 3D Systems' GHG inventories are collected from our largest facilities, based on square footage. Different facility types are included in our sample to cover relevant company activities from each type of facility (offices, manufacturing sites, warehouses, and R&D sites). Impacts from this sample are extrapolated to calculate estimations for the facilities excluded from the sample.

Renewable Energy: 3D Systems sourced 100% of its electricity from the regional grid. Based on the renewable energy content of the grid during FY 2024, approximately 15%, or 3,393,348 kWh, of our electricity consumption is from renewable sources. This figure is calculated as a weighted average, based on the energy usage of our operations and the renewable energy share of the grid. All other energy consumed was from a non-renewable source.

Scope 1 & 2 GHG Emissions[1]

GHG Emission Type	2022 (MT CO2e)	2023 (MT CO2e)	2024 (MT CO2e)
Scope 1	2,671	2,589	2,535
Scope 2 (market-based)	6,675	7,109	6,441
Total	**9,346**	**9,698**	**8,976**

Energy Consumption Breakout

The table below includes aggregated energy consumption from all sources, which are non-renewable.

Consumption Type	2022 Consumption	2023 Consumption	2024 Consumption
Electricity (kWh)	20,353,397	22,622,322	20,484,875
Gas (therms)	370,708	329,080	331,309
Fleet – Gasoline (gallons)	29,510	27,369	33,660
Fleet – Diesel (gallons)	13,489	12,957	18,309

[1] 3D Systems' 2022, 2023 and 2024 Greenhouse Gas inventories were calculated based on requirements defined by the World Resource Institute's (WRI) Greenhouse Gas (GHG) Protocol. WRI's GHG Protocol is the most used and respected international standard for how to measure, manage, and report GHG emissions. The calculation of GHG emissions uses recognized emission factors from The Climate Registry, Intergovernmental Panel on Climate Change (IPCC), and the United States Environmental Protection Agency (EPA). The requirements outlined in ISO 14064-1:2018 are followed, though the GHG Protocol is utilized in cases where the standards conflict. 3D Systems' 2022, 2023, and 2024 inventories were third-party verified to ensure emissions calculations are compliant with ISO-14064.

Value Chain Metrics

We began measuring our scope 3 GHG emissions this past year to better understand our environmental impact from indirect emissions that occur throughout our value chain, both upstream and downstream.

Our measurement approach aligns to the GHG scope 3 methodology of 15 categories of scope 3 emissions within a company's value chain. Categories in this table are most material to 3D Systems' value-chain and were measured starting in FY 2023.

GHG Scope 3 Category	Category and Calculation Description
Purchased goods and services	Emissions associated with purchased goods and services captured through 3D Systems' procurement system. The scope includes expenses associated with the manufacturing of 3D Systems' products, such as raw materials, components, parts, and packaging, and non-product related expenses that encompass overhead spend.
Upstream transportation and distribution	Emissions associated with any transportation and logistics paid for by 3D Systems, which could include services from suppliers to 3D Systems facilities, from 3D Systems manufacturing facilities to 3D Systems warehouses, or from 3D Systems warehouses to resellers or other customers.
Waste generated in operations	Emissions associated with any facility waste type generated by 3D Systems in the creation of printers, materials, or 3D-printed products in our operations, prior to sale.
Processing of sold products	Emissions associated with the additive manufacturing process when 3D Systems' materials are used in a non-3D Systems printer.
Use of sold products	Emissions from the energy consumed by end consumers operating 3DS printers sold. Emissions in the year of measurement are based on printers sold that same year, estimating the annual energy draw over the expected lifetime of those printers.
End of life treatment of sold products	Emissions associated with the end-of-life disposal of all 3D printers and materials sold in the year of measurement. Also includes estimated emissions associated with landfill impacts of mixed plastic and metal materials sold in the year of measurement.
Downstream leased assets	Emissions resulting from the operation of facilities leased by 3DS but sub-leased to other entities, and therefore outside of the 3DS' direct control.

Scope 3 GHG Emissions

Category	2023 MT CO2e [1]	2024 MT CO2e
Purchased goods and services	66,412	65,227
Upstream transportation and distribution	2,063	2,874
Waste generated in operations	568	623
Processing of sold product	157	41
Use of sold product	141,147	94,378
End of life treatment of sold products	82	263
Downstream leased assets	265	-
Total	**210,964**	**163,406**

[1] Due to improvements in our data calculation process, baseline amounts for 2023 have been updated to enhance accuracy.