



Carbon Footprint Data

Amazon's Enterprise-wide Carbon Footprint, 2019–2021

Carbon Intensity	2019	2020	2021	YOY%
Carbon Intensity (grams of CO₂e per \$ of GMS)	122.8	102.7	100.8	-1.9%
Emissions Category (mmt CO₂e)				
	2019	2020	2021	YOY%
Emissions from Direct Operations (Scope 1)	5.76	9.62	12.11	26%
Fossil fuels	5.57	9.37	11.89	27%
Refrigerants	0.19	0.25	0.22	-12%
Emissions from Purchased Electricity (Scope 2)	5.50	5.27	4.07	-23%
Emissions from Indirect Sources (Scope 3)	39.91	45.75	55.36	21%
Corporate purchases and Amazon-branded product emissions (e.g., operating expenses, business travel, and Amazon-branded product manufacturing, use phase, and end-of-life)	15.41	16.70	19.09	14%
Capital goods (e.g., building construction, servers and other hardware, equipment, vehicles)	8.01	10.52	15.37	46%
Other indirect emissions (e.g., third-party transportation, packaging, upstream energy-related)	12.44	15.77	18.00	14%
Lifecycle emissions from customer trips to Amazon's physical stores	4.05	2.77	2.91	5%
Amazon's Total Footprint	51.17	60.64	71.54	18%

mmt = Million metric tons; CO₂e = Carbon dioxide equivalent; GMS = Gross merchandise sales