

Verification Statement

Alphabet – Global CY2018 GHG Inventory

Verification Scope & Assertions

The scope of this verification assignment covers Alphabet's Global CY2018 GHG Emissions Inventory, which includes carbon dioxide (CO₂) emissions from Scope 1, Scope 2, Scope 3, and biogenic sources.

- Scope 1 and Scope 2 emissions totaled 747,757 metric tons (MT) CO₂: 684,236 MT are Scope 2 (indirect) CO₂ emissions from market-based electricity purchases and 63,521 MT are Scope 1 (direct) CO₂ emissions from combustion.
- Location-based Scope 2 emissions are 4,344,686 MT CO₂, with total emissions of 4,408,207 MT CO₂ for both Scope 1 and Scope 2 sources.
- Scope 3 emissions are reported to be 150,467 MT CO₂.
- Declared biogenic emissions associated with the combustion of landfill gas and liquid biofuels are 22,862 MT CO₂.

2018 Alphabet Carbon Footprint (MT CO ₂ e)		
Scope 1	Location-based	Market-based
	63,521	63,521
Scope 2	Location-based	Market-based
	4,344,686	684,236
Subtotal Scope 1 + 2	4,408,207	747,757
Scope 3	Location-based	Market-based
	150,467	150,467
TOTAL FOOTPRINT	4,558,674	898,224
Biogenic Emissions	Location-based	Market-based
	22,862	22,862

It is therefore verified that Alphabet's declared assertions above are materially correct, limited to the boundaries listed in the Verification Scope & Assertions section.

Most emissions were calculated from activity data consisting of metered consumption, though some Scope 2 emissions were estimated based on square feet of occupied space and an assumed electric consumption rate. No other data and information supporting the GHG assertion were hypothetical, projected or historical in nature, other than the inherent historical nature of grid-based electricity emissions factors.