

Verification Statement Facebook – CY2015 Global GHG Inventory

Background

Cameron-Cole, LLC (Cameron-Cole) was retained by Facebook Inc. (Facebook) to perform an independent verification of its Global Greenhouse Gas (GHG) Emissions Inventory for Calendar Year (CY) 2015, which was developed according to the World Resources Institute (WRI)/World Business Council for Sustainable Development (WBCSD) Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (2004 revised edition) and its associated amendment dated February 2013. Our opinion on the results of the inventory, with respect to the verification objectives and criteria, is provided in this statement.

Responsibility of Facebook & Independence of Verification Provider

Facebook has sole responsibility for the content of its GHG Inventory. Cameron-Cole accepts no responsibility for any changes that may have occurred to the GHG emissions results since they were submitted to us for review. Based on internationally accepted norms for impartiality, we believe our review represents an independent assessment of Facebook's Global CY2015 GHG Emissions Inventory. Finally, the opinion expressed in this verification statement should not be relied upon as the basis for any financial or investment decisions.

Level of Assurance

The level of assurance is used to determine the depth of detail that a Verification Body designs into the Verification Plan to determine if there are material errors, omissions or misstatements in a company's GHG assertions. Two levels of assurance are generally recognized – reasonable and limited. Reasonable Assurance generates the highest level of confidence that an emissions report is materially correct (with the exception of Absolute Assurance which is generally impractical for companies to achieve). Limited Assurance provides less confidence, and involves less detailed examination of GHG data and supporting documentation. Limited Assurance statements assert that there is no evidence that an emissions report is not materially correct. Cameron-Cole's verification of Facebook's Global GHG Emissions Inventory for CY2015 was constructed to provide a Limited Level of Assurance.

Objectives

The primary objectives of this verification assignment were as follows:

- Determine whether the GHG emissions assertions meets/exceeds the 90% threshold for accuracy (for Scope 1 and 2 emission); and,
- Evaluate the conformance of Facebook's accounting and calculation methodologies, processes and systems to the GHG Protocol.

A materiality threshold was not set for Scope 3 emissions.

Verification Criteria

Cameron-Cole conducted verification activities in alignment with the principles of ISO-14064-3:2006(E) Specifications with Guidance for the Validation and Verification of Greenhouse Gas Assertions. The Facebook inventory was prepared to, and verified against, the WRI/WBCSD GHG Protocol.

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Verification Scope & Assertions

The scope of this verification assignment covers Facebook's Global CY2015 GHG Emissions Inventory, which includes carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O) and hydrofluorocarbons (HFCs) emissions from Scope 1 and Scope 2 sources. Scope 3 sources emitted CO₂, CH₄ and N₂O.

Facebook's GHG assertions are as follows:

Facebook GHG emissions 2015 MTCO ₂ e			
Scope	Aggregated Categories	Regional EF Scenario	Contractual EF Scenario
1	HQ Natural Gas	4,643.00	4,643.00
1	DC Diesel	1,723.00	1,723.00
1	HQ Owned Vehicle Fleet	8.00	8.00
1	HQ Diesel	7.00	7.00
1	HQ Refrigerant	0.00	0.00
1	DC Refrigerant	0.00	0.00
Scope 1 subtotal		6,381.00	6,381.00
2	Data Center Electricity	444,468	406,886
2	POPs Electricity	12,154	13,711
2	HQ Electricity	9,326	13,727
2	Global Office Electricity	6,026	7,534
2	GO Natural Gas	2,356	2,356
2	Leased DC Natural Gas	224	224
2	Leased DC Diesel	218	218
Scope 2 subtotal		474,771.38	444,655.29
3	Construction	96,146.25	96,146.25
3	Corporate Travel Auto	52,085.25	52,085.25
3	HQ Commute Other	18,094.20	18,094.20
3	Hardware Transportation Auto	12,316.51	12,316.51
3	Hardware Transportation Manual	7,112.90	7,112.90
3	HQ Commute Shuttle/Vanpool	6,608.46	6,608.46
3	GO Commute	5,061.36	5,061.36
3	HQ Commute Manual Shuttle/Ferry	175.13	175.13
3	Corporate Travel Manual	175.85	175.85
Scope 3 subtotal		197,775.90	197,775.90
Scope 1 + 2 Total		481,152.38	451,036.29
Scope 3 Total		197,775.90	197,775.90
Grand Total (all scopes)		678,928.29	648,812.19

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For CY2015, Facebook has calculated and presented two versions of its carbon footprint. The Regional EF Scenario uses eGRID emissions factors for data center Scope 2 emissions in the United States and the IEA factors for Global Offices and POP locations. The Contractual EF Scenario uses utility-specific emission factors for data centers in the US, Residual Mix factors for all office locations worldwide, and counts zero Scope 2 carbon impact for LLA (due to Guarantees of Origin for hydropower) as well as ATN and FTW data centers (due to purchased RECs).

For CY2015 under the “Regional” scenario, Facebook calculated its total Scope 1 and Scope 2 emissions as 481,152.38 metric tons (MT) CO₂ equivalents (e): 474,771 MT of Scope 2 (indirect) CO₂e emissions from electricity purchases and 6,381 MT of Scope 1 (direct) CO₂e emissions from combustion.

For CY2015 under the “Contractual” scenario, Facebook calculated its total Scope 1 and Scope 2 emissions as 451,036.29 MT CO₂e: 444,655 MT of Scope 2 (indirect) CO₂e emissions from electricity purchases and 6,381 MT of Scope 1 (direct) CO₂e emissions from combustion.

In CY2015, Facebook has additionally declared Scope 3 emissions associated with air, rail and car business travel, product transportation, construction of owned data centers and offices, and employee commuting. Facebook has reported that these sources emitted 197,776 MT CO₂e in CY2015.

Verification Opinion

Based on the method employed and the results of our verification activities, **Cameron-Cole has found no evidence of material errors, omissions or misstatements in Facebook’s Global CY2015 GHG Inventory within the boundaries described above.** Cameron-Cole also found that Facebook’s GHG accounting and calculation methodologies, processes and systems for this inventory conform to the WRI/WBCSD GHG Protocol.

Cameron-Cole, LLC

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