



The Directors  
Alphabet Inc.  
1600 Amphitheatre Pkwy  
Mountain View, CA 94043

July 14, 2016

To whom it may concern,

The purpose of this letter is to clarify matters set out in the assurance report. It is not an assurance report and is not a substitute for the assurance report.

This letter and the verifier's assurance report, including the opinion(s), are addressed to you and are solely for your benefit in accordance with the terms of the contract. We consent to the release of this letter by you to CDP in order to satisfy the terms of CDP disclosure requirements but without accepting or assuming any responsibility or liability on our part to CDP or to any other party who may have access to this letter or our assurance report.

In accordance with our engagement contract with and for the avoidance of doubt, we confirm that our verification report dated June 29<sup>th</sup>, incorporated the following matters:

- I. Boundaries of the reporting company covered by the assurance report and any known exclusions.

The boundaries of the Alphabet's GHG Emission Inventory included in the scope of the verification are as follows:

- Emissions Year: 2015;
- Geographical Boundary: global;
- Chemical Boundary: carbon dioxide (CO<sub>2</sub>) only;
- Organizational Boundary: operational control criterion of management control approach;
- Operational Boundary: The following sources were identified by Alphabet in its organizational boundary:

Scope 2 Indirect Emissions from Electricity Purchases: All electric use associated with facilities at which Alphabet has the full authority to introduce and implement its operating policies including offices and data centers. As submitted to Cameron-Cole, Alphabet also included *de minimis* amounts of electricity consumption at some data centers in this category. Note that under the contractual scenario, emissions deductions associated with renewable power purchases and retirement have been included.

Scope 1 Direct Emissions from Stationary Combustion Sources: Combustion of natural gas for space heating. As submitted to Cameron-Cole, Alphabet also included *de minimis* amounts of liquid fuel for emergency generators in this category.

Scope 1 Direct Emissions from Mobile Combustion Sources: Combustion of liquid fuels (gasoline and diesel) in Alphabet's fleet vehicles. As submitted to Cameron-Cole, Alphabet also included *de minimis* amounts of liquid fuel for ground and air vehicles.

Biogenic Emissions from Stationary and Mobile Sources: Combustion of landfill gas in a stationary source and liquid biofuels in fleet vehicles.

Scope 3 (Optional) Non-Scope 2 Indirect Emissions: Fuel use from employee commute and natural gas consumption at leased offices.

2. Emissions data verified - broken down by Scope 1, Scope 2 and Scope 3 categories with figures given; option to include other relevant data that has been verified with figures.

Assertions in the Alphabet CY2015 Global GHG Inventory as verified by Cameron-Cole, are as follows:  
Alphabet's CY2015 GHG assertions are as follows:

- Scope 1 and Scope 2 emissions totaled 1,762,152 metric tons (MT) CO<sub>2</sub>: 1,695,161 MT are Scope 2 (indirect) CO<sub>2</sub> emissions from market-based electricity purchases and 66,991 MT are Scope 1 (direct) CO<sub>2</sub> emissions from combustion.
- Location-based Scope 2 emissions are 2,694,531 MT CO<sub>2</sub>, with total emissions of 2,761,520 MT CO<sub>2</sub> for both Scope 1 and Scope 2 sources.
- Scope 3 emissions are reported to be 134,648 MT CO<sub>2</sub>.
- Declared biogenic emissions associated with the combustion of landfill gas and liquid biofuels are 14,356 MT CO<sub>2</sub>.

Alphabet Global CO <sub>2</sub> Emissions - Calendar Year 2015				
	Location-based		Market-based	
	Metric tons	%	Metric tons	%
<b>Scope 1</b>				
Road vehicle fuel	27,832	41.5%	27,832	41.5%
Other on-site fuel	23,224	34.7%	23,224	34.7%
Backup generators	10,147	15.1%	10,147	15.1%
Aircraft fuel	5,789	8.6%	5,789	8.6%
<b>Total Scope 1</b>	<b>66,991</b>		<b>66,991</b>	
<b>Scope 2</b>				
Large DC elec	2,194,091	81%	1,113,124	66%
POP / Networking	347,887	13%	423,210	25%
Office / Real Estate	152,549	6%	158,827	9%
<b>Total Scope 2</b>	<b>2,694,531</b>		<b>1,695,161</b>	
	<b>Location-based</b>		<b>Market-based</b>	
<b>Total Scope 1 and 2</b>	<b>2,761,522</b>		<b>1,762,152</b>	
<b>Alphabet Global CO<sub>2</sub> Emissions Optional and biogenic - Calendar Year 2015</b>				
<b>Biogenic Sources</b>				
Landfill gas	13,501	94%	13,501	94%
Biodiesel	855	6%	855	6%
<b>Total biogenic sources</b>	<b>14,356</b>		<b>14,356</b>	
<b>Scope 3</b>				
Employee commuting	118,981	0.30%	118,981	0.40%
Onsite fuel (leased buildings)	15,667	3.90%	15,667	5.70%
<b>Total Scope 3</b>	<b>134,648</b>	<b>4.20%</b>	<b>134,648</b>	<b>6.10%</b>
<b>Total MT CO<sub>2</sub>e (including biogenic and Scope 3)</b>				
Scope 1	66,992	2%	66,992	4%
Scope 2	2,694,531	93%	1,695,161	89%
Scope 3	134,648	5%	134,648	7%
Biogenic	14,356	0.5%	14,356	1%
<b>Total MT CO<sub>2</sub>e</b>	<b>2,896,170</b>		<b>1,896,800</b>	

3. Period covered (e.g. '12 months to DD MM YY')

January 1, 2015 – December 31, 2015

4. Verification standard used

Alphabet's GHG emission report was verified using the following standards:

- Alphabet's Inventory Management Plan
- WRI/WBCSD "A Corporate Accounting and Reporting Standard" (revised), 2004; and all relevant amendments, including the "Scope 2 Guidance" amendment adopted January 2015.
- ISO 14064-3 (Specifications with Guidance for the Validation and Verification of Greenhouse Gas Assertions).
- ISO 14064-3 (Specifications with Guidance for the Validation and Verification of Greenhouse Gas Assertions)

5. Assurance opinion (incl. level of assurance and any qualifications)

Based on the results of our verification activities, Cameron-Cole has found no reason to believe that material errors or omissions exist in Alphabet's 2015 GHG Inventory.

Cameron-Cole also found that the included inventory is accurate to a limited level of assurance, relative to the requirements of the verification criteria.

6. Verification provider and accreditations (if relevant)

Cameron-Cole, LLC.

ANSI accredited validator / verifier – Accreditation ID#0871

California Air Resources Board (ARB) Accredited GHG Verification Body (#H-13-006)

ARB-Accredited GHG Offset Verification Bodies (#H2-13-015)

Verification body for The Climate Registry, Massachusetts Department of Environmental Protection

7. Lead verifier name and relevant accreditations/professional membership (if relevant)

H. Dru Krupinsky

ARB-Accredited GHG Verifier of Emissions Data Reports for Mandatory Reporting–  
Lead Verifier, Transaction Specialist

ARB-Accredited GHG Verifier of Offset Project Data Reports– Lead Verifier and  
Forestry Project Specialist

Lead verifier for The Climate Registry, Massachusetts Department of Environmental  
Protection

8. This letter should be prepared on the verifier's letterhead or include the signature of the lead verifier (or authorized signatory/ organization responsible for issuing the assurance report / statement) in the box below.



**H. Dru Krupinsky, Lead Verifier**

*Senior Strategist, Sustainability Services*