



Ernst & Young LLP  
303 Almaden  
Boulevard  
San Jose, CA 95110

Tel: +1 408 947 5500  
Fax: +1 408 947 5717  
ey.com

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## Independent Accountants' Review Report

To the Board of Directors and Management of Alphabet Inc.

We have reviewed Alphabet Inc.'s Schedules of Select Environmental Metrics for the year ended December 31, 2025 (the "Subject Matter") included in Appendix A in accordance with the criteria also set forth in Appendix A (the "Criteria"). Alphabet Inc.'s management is responsible for the Subject Matter in accordance with the Criteria. Our responsibility is to express a conclusion on the Subject Matter based on our review.

Our review was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants (AICPA) AT-C section 105, *Concepts Common to All Attestation Engagements*, and AT-C section 210, *Review Engagements*. Those standards require that we plan and perform our review to obtain limited assurance about whether any material modifications should be made to the Subject Matter in order for it to be in accordance with the Criteria. The procedures performed in a review vary in nature and timing from and are substantially less in extent than, an examination, the objective of which is to obtain reasonable assurance about whether the Subject Matter is in accordance with the Criteria, in all material respects, in order to express an opinion. Accordingly, we do not express such an opinion. Because of the limited nature of the engagement, the level of assurance obtained in a review is substantially lower than the assurance that would have been obtained had an examination been performed. As such, a review does not provide assurance that we became aware of all significant matters that would be disclosed in an examination. We believe that the review evidence obtained is sufficient and appropriate to provide a reasonable basis for our conclusion.

We are required to be independent of Alphabet Inc. and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements related to our review engagement. Additionally, we have complied with the other ethical requirements set forth in the Code of Professional Conduct and applied the Statements on Quality Management Standards established by the AICPA.

The procedures we performed were based on our professional judgment. Our review consisted principally of applying analytical procedures, making inquiries of persons responsible for the subject matter, obtaining an understanding of the data management systems and processes used to generate, aggregate and report the Subject Matter and performing such other procedures as we considered necessary in the circumstances.



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As described in Appendix A the Subject Matter is subject to measurement uncertainties resulting from limitations inherent in the nature and the methods used for determining such data. The selection of different but acceptable measurement techniques can result in materially different measurements. The precision of different measurement techniques may also vary.

Furthermore, Scope 3 emissions are calculated based on a significant number of estimations and management assumptions due to the inherent nature of the Greenhouse Gas Protocol Corporate Value Chain (Scope 3) Accounting and Reporting Standard as well as the Technical Guidance for Calculating Scope 3 Emissions criteria.

The information included in Alphabet Inc's annual Environmental Report and submission to the CDP, other than the Subject Matter, has not been subjected to the procedures applied in our review and, accordingly, we express no conclusion on it.

Based on our review, we are not aware of any material modifications that should be made to the accompanying Schedules of Select Environmental Metrics for the year ended December 31, 2025 included within Appendix A in order for them to be in accordance with the Criteria.

*Ernst & Young LLP*

June 22, 2026

## Appendix A – Schedules of Select Environmental Metrics

| Alphabet Inc. <sup>1</sup> Schedule of Select Environmental Metrics<br>For the Year Ended December 31, 2025 <sup>2</sup> |                             |                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Metric <sup>3, 4</sup>                                                                                                   | Reported Value <sup>5</sup> | Unit                                                          | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| GREENHOUSE GAS (GHG) EMISSIONS                                                                                           |                             |                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Emissions Inventory                                                                                                      |                             |                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Scope 1                                                                                                                  | 86,100                      | Metric tons of carbon dioxide equivalent (tCO <sub>2</sub> e) | World Resources Institute (WRI)/World Business Council for Sustainable Development's (WBCSD):<br><br>1. The GHG Protocol: A Corporate Accounting and Reporting Standard as amended by the GHG Protocol Scope 2 Guidance (Corporate Standard)<br>2. Corporate Value Chain (Scope 3) Accounting and Reporting Standard (Scope 3 Standard)<br>3. Technical Guidance for Calculating Scope 3 Emissions (Scope 3 Technical Guidance)<br><br>Collectively, these are referred to as the GHG Protocol. |
| Scope 2 location-based                                                                                                   | 15,148,700                  | tCO <sub>2</sub> e                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Scope 2 market-based                                                                                                     | 2,815,000                   |                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Total operational emissions: scope 1 and 2 (market-based)                                                                | 2,901,100                   |                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Scope 3 (Category 1: Purchased goods and services) <sup>6</sup>                                                          | 4,023,000                   |                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Scope 3 (Category 2: Capital goods) and (Category 11: Use of sold products) <sup>6</sup>                                 | 8,979,000                   |                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Scope 3 (Category 3: Fuel- and energy-related activities [not included in scope 1 or scope 2]) <sup>6</sup>              | 718,000                     |                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Scope 3 (Category 4: Upstream transportation and distribution) <sup>6</sup>                                              | 1,073,000                   |                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Scope 3 (Category 5: Waste generated in operations) <sup>6</sup>                                                         | 9,000                       |                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Scope 3 (Category 6: Business travel) <sup>6</sup>                                                                       | 449,000                     |                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Scope 3 (Category 7: Employee commuting) <sup>6</sup>                                                                    | 140,000                     |                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Scope 3 (Category 8: Upstream leased assets) <sup>6</sup>                                                                | 555,000                     |                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Scope 3 (total) <sup>6</sup>                                                                                             | 15,946,000                  |                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Biogenic emissions                                                                                                       | 45,100                      | Metric tons of carbon dioxide (tCO <sub>2</sub> )             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ENERGY                                                                                                                   |                             |                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Energy Consumption                                                                                                       |                             |                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Total energy consumption <sup>7</sup>                                                                                    | 44,046,500                  | MWh <sup>8</sup>                                              | As defined by GRI Disclosure 302-1: Energy consumption within the organization a, b, c, e, f, g <sup>9, 10</sup>                                                                                                                                                                                                                                                                                                                                                                                |
| Electricity procured from renewable sources                                                                              | 100                         | %                                                             | Alphabet calculates electricity procured from renewable sources (%) on an annual basis by dividing the MWhs of electricity procured from renewable sources (i.e., through contractual instruments, on-site renewable electricity generation, and renewable electricity in the electric grids where facilities are located) by the total MWhs of electricity consumption of Alphabet's global operations.                                                                                        |

<sup>1</sup> References to Alphabet Inc. includes its subsidiaries (collectively, Alphabet).

<sup>2</sup> All metrics are reported for the period January 1, 2025 through December 31, 2025.

<sup>3</sup> The ambitions and progress against related ambitions are not included in this presentation of the Subject Matter.

<sup>4</sup> Non-financial information is subject to measurement uncertainties resulting from limitations inherent in the nature and the methods used for determining such data. The selection of different but acceptable standards and frameworks provide acceptable measurement techniques, which may result in materially different measurements. The precision of different measurement techniques may also vary.

<sup>5</sup> All reported values are rounded to the nearest hundred unless otherwise noted.

<sup>6</sup> All reported scope 3 GHG emissions values are rounded to the nearest thousand.

<sup>7</sup> Total energy consumption includes all fuel and natural gas consumption; purchased electricity, steam, heating, cooling; and all electricity generated on-site from renewable sources.

<sup>8</sup> Metric is reported in MWh, using a conversion factor of 3600 MJ/MWh.

<sup>9</sup> Significant contextual information necessary to understand how the data has been compiled has been disclosed.

<sup>10</sup> Other criteria included in GRI Disclosure 302-1 (e.g., 302-1d: electricity, heating, cooling, and steam consumed sold) are excluded.

| Alphabet Inc. <sup>1</sup> Schedule of Select Environmental Metrics<br>For the Year Ended December 31, 2025 <sup>2</sup> |                             |                 |                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Metric <sup>3, 4</sup>                                                                                                   | Reported Value <sup>5</sup> | Unit            | Criteria                                                                                                                                                                                                                                          |
| <b>WATER</b>                                                                                                             |                             |                 |                                                                                                                                                                                                                                                   |
| <b>Global Operational Water Use</b>                                                                                      |                             |                 |                                                                                                                                                                                                                                                   |
| Water withdrawal                                                                                                         | 14,689                      | Million gallons | Total water withdrawal, excluding seawater, for any use by Alphabet. <sup>9, 11</sup>                                                                                                                                                             |
| Water discharge                                                                                                          | 3,820                       |                 | Total water discharge, excluding seawater, for which Alphabet has no further use. <sup>9</sup>                                                                                                                                                    |
| Water consumption                                                                                                        | 10,869                      |                 | Total water consumption, excluding seawater, that has been withdrawn and incorporated into Alphabet's operations, including through evaporation, and is therefore not released back to surface water, groundwater, or a third party. <sup>9</sup> |

## Boundaries and general methodology

The metrics in the following schedules are reported in alignment with the criteria outlined in the Schedule of Select Environmental Metrics above. The reporting boundary for the GHG emissions, energy, and water metrics included in the Schedule of Select Environmental Metrics is Alphabet, globally. Alphabet utilizes the operational control approach, as defined by the GHG Protocol, to establish the relevant operations for the emissions, energy, and water metrics at Alphabet's owned and leased data centers, offices, and other assets (Global Facilities). Where possible, based on Alphabet's reporting timeline and requirements, Alphabet uses the most up-to-date emission factors available at the time of their emissions inventory calculation and calculates emissions by multiplying relevant activity data by the applicable emission factors, and global warming potentials (GWPs) (if applicable). Many of the emission factor sources provide emission factors in CO<sub>2</sub>e and therefore GWPs are not required. In cases where Alphabet calculates CO<sub>2</sub>e from emission factors for individual GHGs, the GWPs for each GHG are sourced from the Intergovernmental Panel on Climate Change (IPCC) Fourth Assessment Report (AR4), IPCC Fifth Assessment Report (AR5), and IPCC Sixth Assessment Report (AR6).

## Scope 1

**"Scope 1"** represents direct emissions from natural gas, back-up generator fuel use, and fugitive emissions of hydrofluorocarbons (HFCs) from refrigerant leaks at owned Global Facilities, fuel consumption from Alphabet's operated vehicles and aircraft, and methane (CH<sub>4</sub>) and nitrous oxide (N<sub>2</sub>O) from biogenic sources. Where actual data isn't available, for example from a utility bill, Alphabet estimates fuel consumption using square footage of the data centers, offices, and other assets and internally developed fuel-specific intensity factors by office type, based on data from the reporting period. Where actual refrigerant leakage data isn't available, Alphabet estimates refrigerant leakage by taking an average of GWP values from known refrigerants within the portfolio and a 20% leakage rate at data centers, offices, and other assets. The emission factors used to calculate scope 1 GHG emissions include the 2025 U.S. Environmental Protection Agency (EPA) Emission Factors for Greenhouse Gas Inventories, the 2025 Climate Registry Default Emission Factors, and the 2025 Department for Energy Security and Net Zero (DESNZ) UK Government GHG Conversion Factors.

## Scope 2 location-based and Scope 2 market-based

**"Scope 2 location-based"** and **"Scope 2 market-based"** represent indirect emissions from natural gas, fugitive emissions from refrigerant leaks at leased Global Facilities, purchased steam, hot water, and chilled water from district energy systems, and purchased electricity consumption at Global Facilities. All purchased electricity includes purchased electricity for owned and operated global data centers and purchased electricity related to the operation of Alphabet's information technology assets at leased data centers and other locations. Alphabet reports scope 2 emissions using both location-based and market-based methods. The location-based method reflects the average carbon intensity of the electric grids where Alphabet's operations are located and thus where the electricity consumption occurs. The market-based method incorporates Alphabet's procurement choices, primarily renewable energy purchases via contractual instruments. Alphabet uses actual data (such as third-party invoices, monthly utility bills, or meter readings) to calculate scope 2 emissions. Where actual data isn't available, Alphabet estimates electricity consumption, natural gas consumption, and activity from district energy systems using square footage of data centers, offices, and other assets and internally developed intensity factors by office type, based on data from the reporting period. The emission factors used to calculate scope 2 (location-based) emissions include the 2025 EPA Emission Factors for Greenhouse Gas Inventories, the 2025 DESNZ UK Government GHG Conversion Factors, the 2025 International Energy Agency (IEA) Emission Factors, the 2025 EPA eGRID Emission Factors, and the 2025 Climate Registry Default Emission Factors. The emission factors used to calculate scope 2 (market-based) emissions are the same as scope 2 (location-based) with the addition of emission factors specific to energy attribute certificates (EACs) and Granular Certificates (GCs) from Alphabet's long-term clean energy agreements as well as GCs purchased from the marketplace, as well as residual mix emission factors where available. Residual grid mix removes the proportion of renewable energy contracted to other parties—which have the rights to claim those clean electricity attributes through EACs—from the grid electricity mix and therefore avoids double counting. Comprehensive residual mix emission factors are currently only available for Europe (European Residual Mixes 2024, Association of Issuing Bodies). Outside of Europe, residual emission factors aren't available from third-party sources to account for voluntary purchases, and this may result in double counting between electricity consumers.

<sup>11</sup> Water withdrawal excludes seawater that is subsequently discharged back into the sea.

| Alphabet's Schedule of GHG Emissions by Region<br>For the Year Ended December 31, 2025<br>(tCO <sub>2</sub> e) |               |                        |                          |
|----------------------------------------------------------------------------------------------------------------|---------------|------------------------|--------------------------|
| GHG emissions by region                                                                                        | Scope 1       | Scope 2 (market-based) | Scope 2 (location-based) |
| North America                                                                                                  | 57,400        | 783,700                | 11,669,400               |
| Europe, Middle East, & Africa                                                                                  | 10,300        | 134,800                | 1,101,800                |
| Latin America                                                                                                  | 2,500         | 13,900                 | 130,600                  |
| Asia Pacific                                                                                                   | 15,900        | 1,882,600              | 2,246,900                |
| <b>Global total</b>                                                                                            | <b>86,100</b> | <b>2,815,000</b>       | <b>15,148,700</b>        |

| Alphabet's Schedule of GHG Emissions by Type<br>For the Year Ended December 31, 2025<br>(tCO <sub>2</sub> e) |               |                        |                          |
|--------------------------------------------------------------------------------------------------------------|---------------|------------------------|--------------------------|
| GHG emissions by type                                                                                        | Scope 1       | Scope 2 (market-based) | Scope 2 (location-based) |
| CO <sub>2</sub>                                                                                              | 58,900        | 2,793,900              | 15,062,400               |
| CH <sub>4</sub>                                                                                              | 100           | 3,500                  | 30,500                   |
| N <sub>2</sub> O                                                                                             | 200           | 7,700                  | 45,900                   |
| HFCs                                                                                                         | 26,900        | 9,900                  | 9,900                    |
| <b>Total</b>                                                                                                 | <b>86,100</b> | <b>2,815,000</b>       | <b>15,148,700</b>        |

| Alphabet's Schedule of GHG Emissions by Type<br>For the Year Ended December 31, 2025<br>(metric tons per gas type) |         |                        |                          |
|--------------------------------------------------------------------------------------------------------------------|---------|------------------------|--------------------------|
| GHG emissions by type                                                                                              | Scope 1 | Scope 2 (market-based) | Scope 2 (location-based) |
| CH <sub>4</sub>                                                                                                    | 2       | 100                    | 1,100                    |
| N <sub>2</sub> O                                                                                                   | 1       | 29                     | 200                      |
| HFCs                                                                                                               | 17      | 6                      | 6                        |

## Scope 3 GHG emissions

"**Scope 3 GHG emissions**" are indirect emissions from other sources in Alphabet's value chain. Alphabet calculates the reported values in the Schedule of Select Environmental Metrics using methodologies from the Scope 3 Technical Guidance for the following categories identified as relevant:

- Category 1: Purchased goods and services
- Category 2: Capital goods
- Category 3: Fuel- and energy-related activities (not included in scope 1 or scope 2)
- Category 4: Upstream transportation and distribution
- Category 5: Waste generated in operations
- Category 6: Business travel
- Category 7: Employee commuting
- Category 8: Upstream leased assets<sup>12</sup>
- Category 11: Use of sold products

Alphabet evaluated the remaining categories using the Scope 3 Standard's relevance criteria and determined the following categories to be either not applicable or not relevant. The emissions associated with categories deemed not relevant are not significant to scope 3 emissions individually or in the aggregate.

- Category 9: Downstream transportation and distribution. Not relevant because category 9 emissions are insignificant.
- Category 10: Processing of sold products. Not applicable because Alphabet does not sell intermediate goods that require further processing.
- Category 12: End-of-life treatment of sold products. Not relevant because category 12 emissions are insignificant.
- Category 13: Downstream leased assets. Not relevant because category 13 emissions are insignificant.
- Category 14: Franchises. Not applicable because Alphabet does not have franchises.
- Category 15: Investments. Not relevant because category 15 emissions are insignificant, based on a screening estimate of equity investments in which Alphabet has greater than 5% ownership.

<sup>12</sup> Alphabet accounts for the emissions of upstream leased assets in scope 2 following the operational control approach. In 2025, for emissions from overhead electricity at colocation facilities where Google is a lessee, Alphabet separately accounted for these emissions within category 8.

Alphabet's reported values in the Schedule of Select Environmental Metrics are presented according to the minimum boundaries listed by the Scope 3 Standard. For certain categories, Alphabet also includes activities that the Scope 3 Standard deems optional.

Alphabet presents emissions from category 2 (Capital goods) and category 11 (Use of sold products) as an aggregated total for business confidentiality purposes. The emissions from category 11 (Use of sold products) are not a material component of total scope 3 emissions.

For each relevant scope 3 category, Alphabet provides the following details, as applicable: the minimum and optional activities included, calculation methods, activity data, emission factors, percentage of category emissions from value chain partners, allocations, and any significant estimations or assumptions.

**“Category 1: Purchased goods and services”** includes upstream emissions generated from manufacturing consumer devices and spare parts, the Real Estate & Workplace Services (REWS) food program, and additional goods and services purchased for Alphabet's operations. Alphabet uses a combination of the average-data method and spend-based method, as defined by the Scope 3 Technical Guidance. To calculate supply chain emissions generated from manufacturing consumer devices and spare parts, Alphabet performs third-party-verified Life Cycle Assessments (LCAs) in accordance with International Organization for Standardization (ISO) 14040 and ISO 14044. Alphabet calculates emissions generated from the REWS food program using HowGood's Product Carbon Footprint software and procurement volumes from a subset of their offices. Where procurement volume data isn't available for the remaining offices, Alphabet estimates remaining emissions by scaling the emissions from procurement data based on global building admittance data. Alphabet estimates supplier emissions from the remaining goods and services purchased for operations using spend data and the Cornerstone Sustainability Data Initiative's U.S. Environmentally-Extended Input-Output (“USEEIO”) Supply Chain GHG Emission Factors (2025 v1.4), which are then adjusted for inflation using the U.S. Bureau of Labor Statistics' Consumer Price Index Inflation Calculator (“USEEIO supply chain emission factors”). Data obtained from value chain partners is used to calculate approximately 2% of category 1 emissions.

**“Category 2: Capital goods”** includes upstream emissions generated from final goods used in manufacturing and assembly of servers and networking equipment used in technical infrastructure (“technical infrastructure hardware”), materials and fuels used in the construction of data centers and offices, and additional capital goods purchased for Alphabet's operations. Alphabet uses a combination of the average-data, and spend-based methods, as defined by the Scope 3 Technical Guidance, as well as LCAs that are in accordance with ISO 14040, ISO 14044, and ISO 14067. To calculate emissions generated from technical infrastructure hardware, Alphabet primarily uses configurable LCA models (third-party reviewed) for high-impact components (which account for the majority of total technical infrastructure hardware emissions). This allows tailored calculations to Alphabet's specific mix of data center hardware and incorporation of supplier-specific process-level data. Where component- and supplier-specific information isn't available, Alphabet uses generic data and default model values to make estimates in the LCAs. For technical infrastructure components where LCA data is unavailable, Alphabet applies the spend-based method; Alphabet collects supplier emissions data from contract manufacturers as well as component and fabless suppliers through the CDP Supply Chain Program. Alphabet's share of these suppliers' emissions is determined via economic allocation (i.e., based on revenue and spend). Where available and valid, Alphabet uses scope 2 market-based method emissions from these suppliers. Where supplier-specific emissions data is not available through CDP, Alphabet estimates supplier emissions using spend data and either USEEIO supply chain emission factors or proxy supplier emissions data. To calculate emissions generated from materials used in data center and office construction, Alphabet uses data on annual construction area and lifecycle emission factors derived from LCAs conducted on Alphabet data centers and offices, as well as invoice-based material information. Alphabet inputs building mass by material data—either collected, or estimated based on actuals where unknown—into LCA software (Tally, One Click LCA and SimaPro—which reference the emission factor databases fromecoinvent and Sphera), and the Embodied Carbon in Construction Calculator (EC3) webtool. For offices, the LCA results undergo third-party review (e.g., by the US Green Building Council for LEED certification). To calculate emissions generated from additional capital goods purchased for operations, Alphabet estimates supplier emissions using spend data and USEEIO supply chain emission factors. Data obtained from value chain partners is used to calculate approximately 7% of emissions.

**“Category 3: Fuel- and energy-related activities (not included in scope 1 or scope 2)”** includes upstream emissions from purchased fuels (e.g., natural gas, diesel, and gasoline) and purchased energy (i.e., electricity, steam, heating, and cooling), as well as emissions from transmission and distribution losses from purchased energy. Alphabet uses the average-data method, as defined by the Scope 3 Technical Guidance. Alphabet calculates upstream emissions from purchased fuel, steam, heating, and cooling and emissions from transmission and distribution losses from steam, heating, and cooling using 2025 DESNZ UK Government GHG Conversion Factors. Alphabet calculates emissions from upstream electricity by country using the 2025 IEA Emission Factors. Alphabet calculates emissions from electricity transmission and distribution losses using grid loss values and emission factors derived from the 2025 IEA Emission Factors and, for the United States, the 2025 EPA eGRID Emission Factors. For upstream electricity, Alphabet calculates emissions using scope 2 market-based data (i.e., by using the remaining electricity not addressed by renewable energy). For electricity transmission and distribution losses, Alphabet uses the market-based method to account for EACs Alphabet has purchased to cover a portion of grid losses.

**“Category 4: Upstream transportation and distribution”** includes emissions generated from transportation and warehousing of Alphabet's consumer products and data center equipment. Report Values also include the optional activities of upstream emissions of transportation. For transportation emissions, Alphabet uses a combination of the fuel-based and distance-based methods, as defined by the Scope 3 Technical Guidance. For transportation emissions, Alphabet collects well-to-wheel (WTW) emissions data—calculated based on fuel use or weight-distance data—and routing associated with a shipment from suppliers. Logistics providers determine Alphabet's share of a shipment's transportation emissions via physical allocation (i.e., based on how much of the total shipment's weight is from Alphabet's goods). Where actual logistics provider emissions data isn't available, Alphabet calculates WTW emissions using weight and distance data by shipment collected from providers, using emission factors from the 2025 Global Logistics Emissions Council (GLEC) framework v3.2 or EPA SmartWay carrier performance data. Where logistics provider weight and distance data is not available, emissions are estimated based on reported data from other transportation providers and the weight shipped. For warehousing emissions, Alphabet uses the site-specific method, as defined by the Scope 3 Technical Guidance. To calculate consumer products and data center equipment

warehousing emissions, Alphabet collects energy data directly from the warehouses and calculates emissions using lifecycle electricity and fuel emission factors from the Sphera Professional database 2025. Alphabet's share of a third party's warehouse energy is determined via physical allocation (i.e., based on how much of the total warehouse area is used for Alphabet's goods). Data obtained from value chain partners is used to calculate nearly 100% of emissions.

**"Category 5: Waste generated in operations"** includes emissions from solid waste generated at Alphabet's offices, Google-owned and -operated data centers,<sup>13</sup> and Google-owned warehouses. The waste is either composted, recycled, landfilled, or incinerated (with or without energy recovery). Alphabet calculates this category's emissions to also include the optional activity of waste transportation, which is embedded in the emission factors used. Alphabet uses a combination of the waste-type-specific method and the average-data method, as defined by the Scope 3 Technical Guidance. The waste generation data comes from a combination of data from invoices and on-site measurements. Where actual waste data isn't available for a specific facility, Alphabet estimates waste tonnage using waste container size and pickup frequency, actual waste data from similar facilities, or historical waste data from the same facility. Alphabet uses waste type- and disposal type-specific emission factors from the 2025 EPA Emission Factors for Greenhouse Gas Inventories. Alphabet excludes from this category emissions from wastewater treatment. Although category 5 emissions are insignificant, Alphabet determined that waste generated in operations is relevant based on other criteria for relevance such as influence, risk, and stakeholders.

**"Category 6: Business travel"** includes emissions from business-related air, rail, bus, personal vehicle (when the employee's car is used for business purposes), taxi, rideshare, shuttle, and rental car travel, including emissions from relocation travel. Report Values also include the optional activity of upstream emissions of business travel. Alphabet uses a combination of the distance-based and fuel-based calculation methods, as defined by the Scope 3 Technical Guidance. Alphabet collects all travel data through an online booking system or a third-party travel agency. To calculate emissions from the majority of air travel, Alphabet uses the Travel Impact Model, an emissions estimation model developed by Google that's built from public and licensable external datasets. Alphabet calculates total plane WTW emissions and allocates an amount to the employee passenger based on the plane's percentage of occupied seats (i.e., the passenger load factor) and the mass of cargo being carried. For all other modes of transport, including rail, taxi, rideshare, non-U.S. personal vehicles, non-U.S. shuttle travel, and a minority of air travel, Alphabet uses WTW emissions factors from the 2025 DESNZ UK Government GHG Conversion Factors. Alphabet calculates emissions from car rental, U.S. personal vehicle, and U.S. shuttle travel using well-to-tank (WTT) emission factors from the 2025 DESNZ UK Government GHG Conversion Factors (WTT) and tank-to-wheel (TTW) emission factors from the 2025 EPA Emission Factors for Greenhouse Gas Inventories. Data obtained from value chain partners is used to calculate approximately 6% of emissions.

**"Category 7: Employee commuting"** includes emissions from the transport of full-time employees between their homes and their worksites by passenger car (i.e., carpool, dropoff, taxi, rideshare, or single-occupied vehicle), rail, bus, motorcycle and gas-powered scooter. Report Values also include the optional activity of upstream emissions of employee commuting. Alphabet uses the distance-based method, as defined by the Scope 3 Technical Guidance. Alphabet surveys its employees to determine typical commuting patterns and applies these commuting patterns to its global employee population. Alphabet uses a mode-specific commuting distance obtained from the American Public Transportation Association's 2025 Fact Book and the U.S. Department of Transportation's 2022 National Household Travel Survey. Alphabet calculates employee commuting emissions using mode-specific WTT emission factors from the 2025 DESNZ UK Government GHG Conversion Factors and TTW emission factors from the 2025 EPA Emission Factors for Greenhouse Gas Inventories and the 2025 DESNZ UK Government GHG Conversion Factors. Alphabet uses passenger distance-based emission factors for shared vehicles (i.e., carpool, taxi, rideshare, rail, bus) to allocate the total vehicle emissions to the employee passenger.

**"Category 8: Upstream leased assets"** includes emissions from overhead electricity (e.g., for cooling, lighting, and security systems) at colocation facilities where Google is a lessee. These emissions also include the optional activity of upstream electricity emissions. Alphabet accounts for emissions from their IT load electricity at colocation facilities within their scope 2 emissions because Alphabet has operational control over the IT equipment in these facilities. Alphabet uses the asset-specific method, as defined by the Scope 3 Technical Guidance. Alphabet estimates overhead electricity based on actual asset-specific IT load electricity data and power usage (PUE)<sup>14</sup> effectiveness data. For facilities with partially complete PUE data, Alphabet estimates the remainder using actual PUE data from the reporting period. For facilities with no PUE data, Alphabet uses an average PUE based on the Uptime Institute Global Data Center Survey 2025 report. Alphabet calculates lifecycle emissions from this overhead electricity using transmission and distribution losses and emission factors from a mix of the 2025 IEA Emission Factors and 2025 EPA eGRID Emission Factors. Approximately 69% of the data Alphabet uses to calculate category 8 emissions are obtained from value chain partners.

**"Category 11: Use of sold products"** includes direct use-phase emissions generated by Google's consumer devices sold in the reporting period that directly consume electricity during use.<sup>15, 16</sup> These emissions also include the optional activity of upstream electricity emissions of these devices by using LCA emission factors. Alphabet performs LCAs that are in accordance with ISO 14040 and ISO 14044 and are third-party reviewed. The LCA results are published on Google's Sustainability Reports webpage. Alphabet uses laboratory power draw measurements, data on use patterns, and common industry assumptions on product lifetimes as inputs into the LCA models. Alphabet then applies electricity emission factors from the 2025 Sphera LCA for Experts database to quantify associated emissions.

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<sup>13</sup> Alphabet is the parent holding company of Google.

<sup>14</sup> PUE is a standard industry ratio that compares the amount of non-computing overhead energy (used for things like cooling and power distribution) to the amount of energy used to power IT equipment.

<sup>15</sup> Flagship consumer devices are products that can provide their main functionality without connection to another product. For example, this generally doesn't include accessories such as cases.

<sup>16</sup> Network and end-user devices used to access web-based software are not considered to be direct-use phase emissions and are not within the reporting boundary for use of sold products.

## Biogenic emissions

“**Biogenic emissions**” represent direct CO<sub>2</sub> emissions from Alphabet’s combusting biofuel consumption in operated vehicles and generators, as well as equipment used to construct their data centers. They also represent direct CO<sub>2</sub> from Alphabet’s food program when crops that have sequestered carbon are harvested during production. In accordance with the Corporate Standard, biogenic CO<sub>2</sub> emissions are reported separately from the scopes. The emission factors used to calculate biofuel biogenic emissions come from the 2025 EPA Emission Factors for Greenhouse Gas Inventories and those used to calculate food biogenic emissions come from HowGood’s Product Carbon Footprint software.

## Energy

Where actual data isn’t available, Alphabet estimates electricity consumption, natural gas consumption, and activity from district energy systems using square footage of data centers, offices, and other assets and internally developed intensity factors by office type, based on data from the reporting period.

Alphabet calculates electricity procured from renewable sources (%) using a custom methodology based on a global approach. Alphabet calculates electricity procured from renewable sources (%) on an annual basis by dividing the MWhs of renewable electricity procured (i.e., through contractual instruments, on-site renewable electricity generation, and renewable electricity in the electric grids where facilities are located) by the total MWhs of electricity consumed by Alphabet’s global operations. Contractual instruments may include PPAs, tax equity investments, PPA-linked Renewable Energy Certificates (RECs) / guarantee of origin (GO) agreements, and utility renewable energy tariffs, which may result in RECs or GOs. The numerator includes all renewable electricity procured, regardless of the market in which Alphabet consumed the renewable electricity. To achieve Alphabet’s 100% renewable electricity match, Alphabet first considers both on-site renewable electricity generation and the renewable electricity already in the electric grids where the facilities are located. Grid renewable electricity mix data are obtained from the IEA’s 2025 World Energy Statistics and the 2024 Association of Issuing Bodies’ European Residual Mixes. Alphabet then procures renewable electricity energy through PPAs and utility renewable energy tariffs. Alphabet has a few facilities located in geographies where it is not currently able to source large volumes of renewable electricity, so Alphabet procures surplus renewable electricity in regions where it’s abundant. Refer to Alphabet’s “Achieving Our 100% Renewable Energy Purchasing Goal and Going Beyond” white paper for additional details on Alphabet’s custom criteria and methodology.

| Alphabet’s Schedule of Electricity Consumption and Renewable Electricity by Region<br>For the Year Ended December 31, 2025<br>(MWh) |                               |                                       |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------|
| Electricity consumption and renewable electricity allocated by region                                                               | Total electricity consumption | Total renewable electricity allocated |
| North America                                                                                                                       | 32,152,900                    | 28,993,500                            |
| Europe, Middle East, & Africa                                                                                                       | 6,307,300                     | 5,992,000                             |
| Latin America                                                                                                                       | 639,700                       | 526,200                               |
| Asia Pacific                                                                                                                        | 4,486,700                     | 682,300                               |
| <b>Global total</b>                                                                                                                 | <b>43,586,600</b>             | <b>36,194,000</b>                     |

| Alphabet’s Schedule of Energy Consumption<br>For the Year Ended December 31, 2025<br>(MWh) |                   |                       |                   |
|--------------------------------------------------------------------------------------------|-------------------|-----------------------|-------------------|
| Energy consumption by source type                                                          | Renewable sources | Non-renewable sources | Total             |
| Fuel                                                                                       | 55,000            | 263,300               | 318,300           |
| Purchased electricity <sup>17</sup>                                                        | 36,194,000        | 7,282,000             | 43,476,000        |
| Purchased heat                                                                             | 0                 | 154,300               | 154,300           |
| Purchased steam                                                                            | 0                 | 15,800                | 15,800            |
| Purchased cooling                                                                          | 0                 | 57,300                | 57,300            |
| On-site renewable electricity                                                              | 24,800            | 0                     | 24,800            |
| <b>Total energy consumption</b>                                                            | <b>36,273,800</b> | <b>7,772,700</b>      | <b>44,046,500</b> |

<sup>17</sup> “**Purchased electricity**” represents electricity sourced from the grid and procured from third-party utilities. Consistent with GRI reporting, electricity generated on-site is excluded and reported under fuel consumption.



| Alphabet's Schedule of Electricity Consumption<br>For the Year Ended December 31, 2025<br>(MWh) |                   |
|-------------------------------------------------------------------------------------------------|-------------------|
| Data centers                                                                                    | 42,415,800        |
| Offices and other facilities                                                                    | 1,170,800         |
| Total electricity consumption <sup>18</sup>                                                     | <b>43,586,600</b> |

| Alphabet's Schedule of Electricity Procured from Renewable Sources<br>For the Year Ended December 31, 2025<br>(MWh) |                   |
|---------------------------------------------------------------------------------------------------------------------|-------------------|
| Renewable electricity procured (PPAs and other renewable energy agreements) <sup>19</sup>                           | 32,986,300        |
| Renewable electricity procured (on-site)                                                                            | 24,800            |
| Renewable electricity (grid)                                                                                        | 10,575,500        |
| <b>Total electricity procured from renewable sources</b>                                                            | <b>43,586,600</b> |

## Water

Relevant operations for water metrics include owned and fully leased data centers and owned and leased offices and other assets.

**Water consumption** is calculated by subtracting "water discharge" from "water withdrawal."

**Water withdrawal** is based on actual metered or invoiced data when it is available. At offices where actual metered or invoiced data is not available, water withdrawal is estimated using facility square footage and internally developed water withdrawal intensity factors by office type based on data from the reporting period. At data centers where actual data isn't available, Alphabet estimates water withdrawal using partial-year data or by applying withdrawal-to-discharge ratios from available data.

**Water discharge** is based on actual metered or invoiced data when it's available. Where actual domestic wastewater discharge data isn't available, Alphabet applies an industry-standard 90% discharge flow factor to a facility's domestic water withdrawal to estimate domestic water discharge and a 0% discharge flow factor to a facility's irrigation water withdrawal to estimate irrigation water discharge. Alphabet applies this water discharge estimation methodology at all offices and at data centers where metered water discharge data isn't available. For the remaining data centers where actual data isn't available, Alphabet estimates water discharge using engineering principles.

| Alphabet's Schedule of Water Use by Data Centers and Offices<br>For the Year Ended December 31, 2025<br>(million gallons) |               |              |               |
|---------------------------------------------------------------------------------------------------------------------------|---------------|--------------|---------------|
| Water use by data centers and offices                                                                                     | Withdrawal    | Discharge    | Consumption   |
| Data centers                                                                                                              | 13,562        | 3,039        | 10,523        |
| Office and other facilities                                                                                               | 1,127         | 781          | 346           |
| <b>Total</b>                                                                                                              | <b>14,689</b> | <b>3,820</b> | <b>10,869</b> |

<sup>18</sup> "Total electricity consumption" includes both purchased electricity and electricity generated on-site from renewable and non-renewable sources

<sup>19</sup> "Total renewable electricity procured (PPAs and other renewable energy agreements)" represents the portion of total renewable electricity allocated necessary to maintain the 100% renewable electricity match.

**Alphabet's Schedule of Water Use by Data Center Location**  
**For the Year Ended December 31, 2025**  
(million gallons)<sup>20</sup>

| <b>Location</b>             | <b>Withdrawal</b> | <b>Discharge</b> | <b>Consumption</b> |
|-----------------------------|-------------------|------------------|--------------------|
| Ashburn, VA                 | 76.5              | 23.3             | 53.2               |
| Berkeley County, SC         | 988.5             | 86.8             | 901.7              |
| Bristow, VA                 | 359.6             | 92.0             | 267.6              |
| Council Bluffs, IA          | 1,746.4           | 400.4            | 1,346.0            |
| The Dalles, OR              | 654.3             | 185.3            | 469.0              |
| Douglas County, GA          | 440.6             | 73.5             | 367.1              |
| Dublin, Ireland             | 0.5               | 0.4              | 0.1                |
| Eemshaven, Netherlands      | 532.2             | 126.5            | 405.7              |
| Frankfurt, Germany          | 1.2               | 1.0              | 0.2                |
| Fredericia, Denmark         | 88.8              | 17.0             | 71.8               |
| Hamina, Finland             | 4.3               | 3.9              | 0.4                |
| Hanau, Germany              | 3.4               | 1.5              | 1.9                |
| Henderson, NV               | 401.7             | 162.3            | 239.4              |
| Inzai, Japan                | 94.6              | 21.4             | 73.2               |
| Jackson County, AL          | 191.0             | 17.4             | 173.6              |
| Lancaster, OH               | 307.1             | 171.3            | 135.8              |
| Leesburg, VA                | 238.1             | 47.4             | 190.7              |
| Lenoir, NC                  | 378.3             | 34.0             | 344.3              |
| Lockbourne, OH              | 460.8             | 101.3            | 359.5              |
| Mayes County, OK            | 1,396.7           | 315.3            | 1,081.4            |
| Mesa, AZ                    | 19.4              | 9.7              | 9.7                |
| Middenmeer, Netherlands     | 13.6              | 4.3              | 9.3                |
| Midlothian, TX              | 263.6             | 43.4             | 220.2              |
| Montgomery County, TN       | 499.5             | 74.8             | 424.7              |
| Montreal, Canada            | 0.3               | 0.2              | 0.1                |
| New Albany, OH              | 1,008.1           | 172.4            | 835.7              |
| New Haven, IN               | 62.2              | 24.4             | 37.8               |
| Omaha, NE                   | 241.8             | 57.9             | 183.9              |
| Papillion, NE               | 677.8             | 129.6            | 548.2              |
| Pflugerville, TX            | 0.4               | 0.3              | 0.1                |
| Phoenix, AZ                 | 0.5               | 0.4              | 0.1                |
| Quilicura, Chile            | 278.2             | 135.2            | 143.0              |
| Read Oak, TX                | 67.0              | 16.6             | 50.4               |
| San Bernardo, Chile         | 0.9               | 0.8              | 0.1                |
| St. Ghislain, Belgium       | 714.4             | 263.6            | 450.8              |
| Sterling, VA                | 258.4             | 58.6             | 199.8              |
| Storey County, NV           | 66.7              | 60.0             | 6.7                |
| Sydney, Australia           | 1.4               | 1.2              | 0.2                |
| Wilmer, TX                  | 2.6               | 2.3              | 0.3                |
| Winschoten, Netherlands     | 0.1               | 0.05             | 0.05               |
| Other data center locations | 1,020.3           | 101.1            | 919.2              |
| <b>Total</b>                | <b>13,562</b>     | <b>3,039</b>     | <b>10,523</b>      |

<sup>20</sup> Water use by data center location metrics are rounded to the nearest tenth. If water use by data center location is less than fifty thousand gallons, Alphabet rounds to the nearest hundredth.