

DIALOG

Greenhouse Gas Emissions Report for the 2018 Calendar Year

January 1, 2018 to December 31, 2018



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Key terms

For further terms, see Climate Smart's [online glossary](#).

Baseline GHG Emissions Inventory: A comprehensive, quantified list of an organization's greenhouse gas emissions and sources for the initial reporting year (base year). The baseline GHG inventory is the level of greenhouse gas emissions against which future GHG inventories are compared.

Biologically sequestered carbon: Long-term carbon stored in biomass, such as forests, soils and peatland. Carbon is "locked" into organic matter through biological processes. This carbon can be released through e.g. burning of biomass as fuel or change in land use.

Carbon Dioxide Equivalent (CO₂e): The universal unit for comparing the emissions from various greenhouse gases. The carbon dioxide equivalent for a gas is derived by multiplying the mass of the gas by the associated global warming potential (GWP). For example, the GWP for methane is 21. This means that emissions of one metric tonne of methane are equivalent to the emissions of 21 metric tonnes of carbon dioxide.

Carbon Offset: A project or activity that results in a given amount of greenhouse gases being avoided or reduced in one place, that is used to 'balance out' another's total GHG emissions. Emission reductions that are real, additional (beyond business as usual), measurable, permanent, and verified can generate offset credits. Credits are tradable certificates.

Emission Factor: A factor that converts activity data to GHG emission values, e.g. lbs of carbon dioxide emitted per barrel of fossil fuel consumed.

Renewable energy certificates (RECs): RECs are tradable energy certificates representing proof that 1 megawatt-hour (MWh) of electricity was generated from an eligible renewable energy resource (e.g. solar or wind) and was fed into the electricity grid.

Climate Smart at a glance

Climate Smart is an award-winning certified B Corp that has developed a practical and solutions-based program for SMEs to **profitably track and reduce GHG emissions**. Climate Smart emphasizes the business case for GHG reduction: **operational efficiencies, cost savings, and competitive advantage**.

Using an SME tailored approach, Climate Smart provides **innovative tools and programming** for our "host partners" on the front lines—cities, ports, airports, chambers, and financial institutions—to disrupt old economic trajectories and invest in more efficient technologies to deliver cleaner products and services.

Since 2007, Climate Smart has worked with 40+ host partners to engage close to 1000 businesses to prepare for and participate in the low-carbon economy. [Case studies](#) from a sampling of 78 Climate Smart businesses show a total **annual cost savings of \$2.6 million**.

Climate Smart also links SMEs to global impacts through harnessing the power of SME derived data to inform estimates of emissions from SMEs at different geographical scales, through our [Business Energy and Emissions Profiles \(BEEPs\)](#). Climate Smart was awarded the Grand Prize in the [2016 MIT Climate CoLab contest](#) and was judges' choice in 2018 for our BEEPs. We have produced BEEPs for cities across Canada and the US. Our goal is to produce 100 BEEPs across North America.

950+

Climate Smart certified businesses to date (trained or in training)

5,148,000+

Total emissions measured by Climate Smart to date, in tonnes (t) CO₂e

21%

Average reduction if businesses see a reduction between two years

\$397

Projected cost savings to a business, per tonne CO₂e reduced

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DIALOG's 2018 calendar year carbon footprint

This report details the greenhouse gas emissions footprint for DIALOG during the 2018 calendar year, including the breakdown of emissions by source activity and DIALOG's plan to reduce their emissions going forwards. This report and inventory were compiled in compliance with the Greenhouse Gas Protocol [Corporate Accounting and Reporting Standard](#), Revised Edition.

DIALOG is working to reduce their GHG emissions from:

Electricity
Employee commuting
&
Paper use

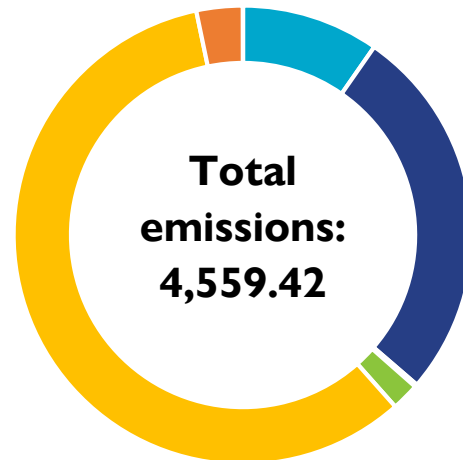
DIALOG' GHG emissions in their 2018 baseline year are equivalent to 967 passenger cars driven for one year¹.

967 cars



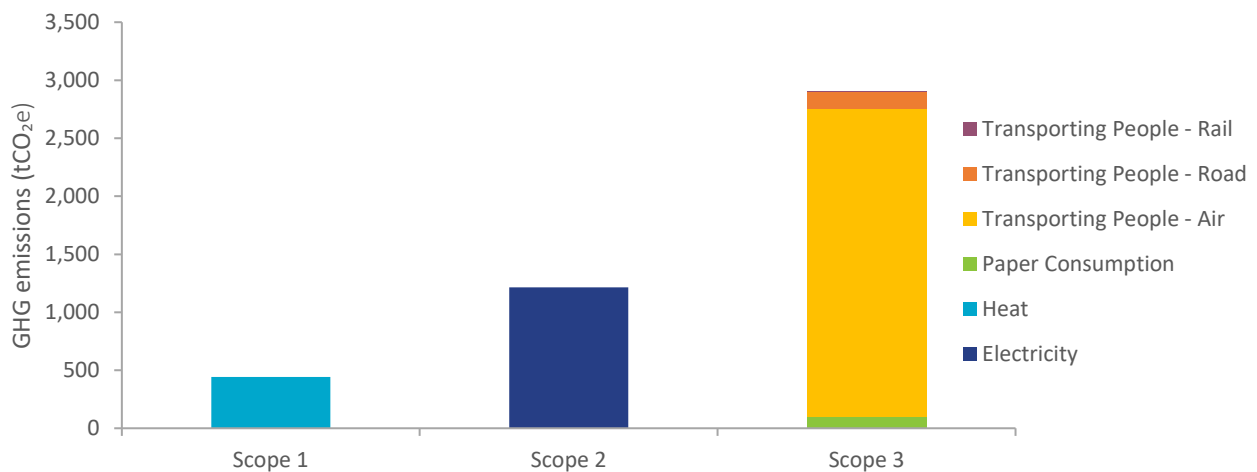
¹Source: EPA Greenhouse Gas Equivalencies Calculator

Total emissions for the 2018 calendar year by activity



- Scope 1 Heat
- Scope 2 Electricity
- Scope 3 Electricity
- Scope 3 Heat
- Scope 3 Paper Consumption
- Scope 3 Transporting People - Air
- Scope 3 Transporting People - Road
- Scope 3 Transporting People - Rail

Total emissions by scope



Analysis

DIALOG measured its first greenhouse gas inventory with Climate Smart for the 2018 calendar year (January 1, 2018 to December 31, 2018) and recorded emissions of 4,551.22 tonnes of carbon dioxide equivalent (tCO₂e). Overall, DIALOG's largest emissions sources were **air travel** (58%) and **electricity** (27%). DIALOG is Climate Smart certified for 2019.

The following sections present the breakdown of DIALOG's emissions for their 2018 calendar year inventory by scope, as well as details of any emissions of CO₂ from combustion of biologically sequestered carbon and purchased offsets and renewable energy certificates (RECs).

Scope 1

Scope 1 emissions totalled 442 tCO₂e in DIALOG's 2018 calendar year:

| Activity | Baseline Calendar 2018 (tCO ₂ e) | % of emissions | Justifications & Additional Notes |
|--------------------|---|----------------|--|
| Scope 1 | | | |
| Heat | 442.05 | 10% | Natural gas consumption for studio heating |
| Grand Total | 442.05 | 10% | |

Scope 2

Scope 2 emissions totalled 1,214 tCO₂e in DIALOG's 2018 calendar year:

| Activity | Baseline Calendar 2018 (tCO ₂ e) | % of emissions | Justifications & Additional Notes |
|--------------------|---|----------------|--|
| Scope 2 | | | |
| Electricity | 1,213.87 | 27% | Electricity consumption for studio equipment and servers |
| Grand Total | 1,213.87 | 27% | |

Market based emission factors

The 2015 [GHG Protocol Scope 2 guidance](#) requires companies to report their Scope 2 emissions in two ways: **location-based** (reflecting grid emission factors), and **market-based** (using supplier specific emissions factors and/or those from contractual instruments such as renewable energy certificates - RECs). The table below shows emissions from purchased electricity calculated using these two methods. Note that location-based values are shown on the emissions summary charts presented in this report.

| | Total kWh | Category of instruments | kWh | Total tCO ₂ e |
|---|-----------|--|--------------|--------------------------|
| Location-based Calculation ¹ | 1,776,825 | Alberta average | 1,340,999.76 | 1,229.7 |
| | | Ontario average | 307,217 | 28.87 |
| | | BC provincial average | 198,612 | 14.08 |
| Supplier Specific Market-based Calculation ² | 1,776,825 | BC Hydro-specific | 198,612 | 13.96 |
| | | Edmonton-specific | 298,881 | 215.63 |
| | | Calgary and Toronto-specific factors were not available at the time of reporting | | |

Scope 3

Scope 3 emissions totalled 2,904 tCO₂e in DIALOG's 2018 calendar year:

| Activity | Baseline Calendar 2018 (tCO ₂ e) | % of emissions | Justifications & Additional Notes |
|----------------------------|---|----------------|--|
| Scope 3 | | | |
| Electricity and Heat | 8.21 | 0.18% | Electricity and natural gas consumption from the San Francisco office |
| Transporting People - Air | 2,656.56 | 58% | Business travel by air between studios and for client work |
| Transporting People - Road | 148.92 | 3% | Fuel consumption from rental cars, taxis and carshare for business trips |
| Transporting People - Rail | 0.64 | 0.01% | Business trips by rail (metro and regional) |
| Paper Consumption | 89.18 | 2% | Paper use for client work, 100% recycled paper |
| Grand Total | 2,895 | 64% | |

Release of sequestered carbon

Direct CO₂ emissions arising from the combustion of biologically sequestered carbon, such as from burning biomass or biofuels, are reported separately from the scopes. For DIALOG's 2018 calendar year inventory, there was no reported release of sequestered carbon.

Offsets & renewable energy certificates

DIALOG mitigates their annual organizational carbon footprint by supporting Community Forests International, a not-for profit organization that purchases, restores, and protects sensitive forests on their behalf. These projects do not generate third-party verified carbon offsets so cannot be attributed towards emissions reductions for DIALOG's 2018 inventory.

¹ Emission Factor based on Environment and Climate Change Canada: National Inventory Report, 2016.

² Emission Factor based on BC Ministry of Environment: Best Practices Methodology for Quantifying GHG Emissions, 2016; Edmonton-specific factor provided by Mike Mellross at the City of Edmonton, December 20th 2018.

DIALOG's emissions reduction plan – Edmonton studio

Based on their 2018 calendar year inventory, DIALOG will work to minimize their emissions by focusing on strategies aimed at electricity, staff commuting, paper use, and staff engagement. DIALOG's current reduction plan for the Edmonton studio is shown below. DIALOG is working to develop an organisational-wide reduction strategy in 2020 which will include the other studio locations in Calgary, Vancouver, Toronto and San Francisco.

| Category | Strategy | Considering | Planned | Implemented |
|--|---|-------------|----------|-------------|
| Electricity | Make use of natural lighting as much as possible | Dec 2023 | | |
| | Use standby settings on electronics | Dec 2023 | | |
| | Set computers to power saving mode | Dec 2023 | | |
| | Put up signage to help people remember to turn off lights and equipment | | Dec 2020 | |
| | Regularly monitor your usage through your online account with your utility provider to identify inefficiencies | Dec 2023 | | |
| | Implement a policy that all office-based equipment and lighting is turned off when not in use | Dec 2023 | | |
| | Replace incandescent lightbulbs with light-emitting diodes | | | Jan 2019 |
| | Purchase/install energy efficient office equipment as old ones expire | Dec 2023 | | |
| | Replace desktop computers with laptops at their end of life | Dec 2023 | | |
| | Install occupancy sensors in common areas | Dec 2023 | | |
| Heat | Implement a regular maintenance program | Dec 2023 | | |
| | Check settings on programmable thermostats (if installed) so that heat is turned down in the evenings and on weekends | Dec 2023 | | |
| | Conduct a commercial energy assessment | Dec 2023 | | |
| | Install programmable thermostats | Dec 2023 | | |
| | Install faucet aerators | Dec 2023 | | |
| | Substitute electric heat in the place of natural gas in cases where temperature throughout your space is uneven | | Dec 2020 | |
| Transportation | Engage employees to consider lower carbon modes of travel where possible for business trips | | Dec 2020 | |
| | Promote carpooling to work by installing a ride share board or facilitating participating in local carpooling program | Dec 2020 | | |
| | Promote public transit by providing (discounted) transit passes to employees | | | Jan 2019 |
| | Allow employees to telecommute | Dec 2020 | | |
| | Reduce business travel through the use of teleconferencing / videoconferencing | Dec 2020 | | |
| | Participate in Ride-to-Work Week or similar programs | | | Jan 2019 |
| | Provide bicycle parking | | | Jan 2019 |
| | Provide shower facilities | | | Jan 2019 |
| | Provide change room(s) | | | Jan 2019 |
| | Provide eco-driver training to vehicle operators | | Dec 2020 | |
| Source from local / regional suppliers whenever possible | Dec 2021 | | | |
| Transport goods with an eco-friendly shipping company | Dec 2021 | | | |
| Ship by rail instead of truck where possible | Dec 2021 | | | |

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| Category | Strategy | Considering | Planned | Implemented |
|---|--|-------------|----------|-------------|
| | Switch shipments from air to truck, rail, or water where possible | Dec 2021 | | |
| | Collect detailed travel data to inform future travel policy | Dec 2020 | | |
| Paper | Put up signage to increase staff paper awareness | | Dec 2020 | |
| | Reduce paper consumption during meetings | | Dec 2020 | |
| | Re-use paper | | Dec 2020 | |
| | Set computer defaults to double-sided printing | | | Jan 2019 |
| | Switch from paper to electronic invoicing, where possible | Dec 2021 | | |
| | Switch from paper to electronic file storage | | | Jan 2019 |
| | Employ a fax to email service | Dec 2021 | | |
| | Track and report on office paper use | Dec 2021 | | |
| | Purchase paper with recycled content | | | Jan 2019 |
| | Purchase wheat-straw paper | Dec 2020 | | |
| Waste | Participate in a battery recycling program | | | Jan 2019 |
| | Increase waste diversion from landfill through improved signage and other employee engagement activities | | | Jan 2019 |
| | Expand waste program to divert organic waste from landfill | Dec 2020 | | |
| | Expand recycling program to include soft plastics | | Dec 2020 | |
| | Request all suppliers to minimize their packaging | | Dec 2021 | |
| Water | Fix leaking taps | | | Jan 2019 |
| | Install faucet aerators on high-use taps | Dec 2021 | | |
| | Install low-flow shower heads in shower facilities | Dec 2021 | | |
| Employee engagement | Communicate to staff why your company is getting Climate Smart certified and how they can get involved | | Dec 2020 | |
| | Solicit ideas for greening operations from staff | | Dec 2020 | |
| | Install a green board to communicate GHG emissions reduction initiatives and other sustainability-related activities | Dec 2020 | | |
| | Establish an employee green team to help develop and coordinate GHG emissions reduction initiatives | | | Jan 2019 |
| | Develop and include sustainability policy in operations and/or employee manual | | Dec 2021 | |
| | Regularly report to staff on GHG emissions reduction initiatives and progress | | Dec 2020 | |
| | Build sustainability into employees' performance metrics | Dec 2021 | | |
| | Include sustainability as a metric for executive compensation | Dec 2021 | | |
| Offsets & renewable energy certificates | Purchase renewable energy certificates (RECs) | Dec 2024 | | |
| | Purchase carbon offsets | | | Jan 2015 |

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Methodology

As a Climate Smart certified business, DIALOG conducted its GHG emissions inventory according to the Greenhouse Gas Protocol [Corporate Accounting and Reporting Standard](#), Revised Edition. The GHG Protocol is an internationally recognized standard published by the World Resources Institute and the World Business Council on Sustainable Development.

Organizational Boundaries

DIALOG used the operational control approach to determine its organizational boundary and included in its inventory all facilities over which it has operational control.

Inventory Boundaries

The GHG Protocol requires the inclusion of Scope 1 and 2 emissions, and suggests including Scope 3 emissions from activities relevant to an organization's business and goals, and for which reliable data can be obtained. DIALOG included emissions from the following activities under Scopes 1, 2 and 3:

- **Scope 1:** includes direct GHG emissions from sources that are owned or controlled by the reporting company or organization
 - natural gas consumption for heating
- **Scope 2:** includes indirect GHG emissions from purchased electricity and purchased heat
 - purchased electricity
- **Scope 3:** includes indirect GHG emissions that are consequences of the reporting company's operations but occur at sources owned by another company
 - business travel by air and road; and
 - paper consumption.

Scope 3 emissions from staff commuting and waste were excluded from the inventory.

Emission factors

This inventory was conducted using the emissions factors from the Climate Smart web-based greenhouse gas management tool. The Climate Smart GHG management tool was designed for adherence to the GHG Protocol. Climate Smart's emission factors come from a variety of sources, such as Environment Canada, the GHG Protocol Initiative, the US Environmental Protection Agency and the Intergovernmental Panel on Climate Change. Climate Smart reviews its emission factors annually to update them based on refined industry methodology and changing electricity grids.

Climate Smart also acknowledges that complete adherence to the Protocol requires the six major greenhouse gases to be accounted for separately, and is working towards adding this feature at a future date. Further details on Climate Smart's emission factors, their sources, and methodology for updating them are available upon request to info@climatesmartbusiness.com.



Sources of data included

DIALOG used the following sources of data to estimate their greenhouse gas emissions for the 2018 calendar year:

| Activity | Data source |
|---|--|
| Electricity > Purchased | The total kilowatt-hours of electricity used, based on utility bills, were entered into the Climate Smart software tool. |
| Heat > Generated | The total giga-joules of natural gas used were entered based on utility bills. |
| Paper Consumption | The paper type, paper bond weight, number of reams used and post-consumer recycled content were entered. The paperweight and paper type were entered into the paper calculator (http://papercalculator.org) to calculate emissions. |
| Transporting People > Vehicles owned by others > Air | The total kilometers travelled were entered by type of flight (short-, medium-, or long-haul). |
| Transporting People > Vehicles owned by others > Rail | The total kilometers travelled were entered. |
| Transporting People > Vehicles owned by others > Road | The total kilometers travelled were entered. |

Prepared on: March 12, 2020

Prepared by: Elly Pattison (Data Analyst & Client Advisor)

Prepared for: Siassia Likibi, Designer

DIALOG

100, 10237-104 Street NW

Edmonton, Alberta, T5J 1B1

Climate Smart Businesses Inc.

507 - 163 W. Hastings St

Vancouver, BC, V6B 1H5

Phone: +1 604 254 6283

Email: info@climatesmartbusiness.com

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