



Firefly GHG Consulting is a specialist greenhouse gas management consultancy based in Calgary, AB, Canada. Climate change is probably the greatest environmental problem that humanity has faced; we envision a future where our children can be proud of the actions that we took to be a part of the solution.

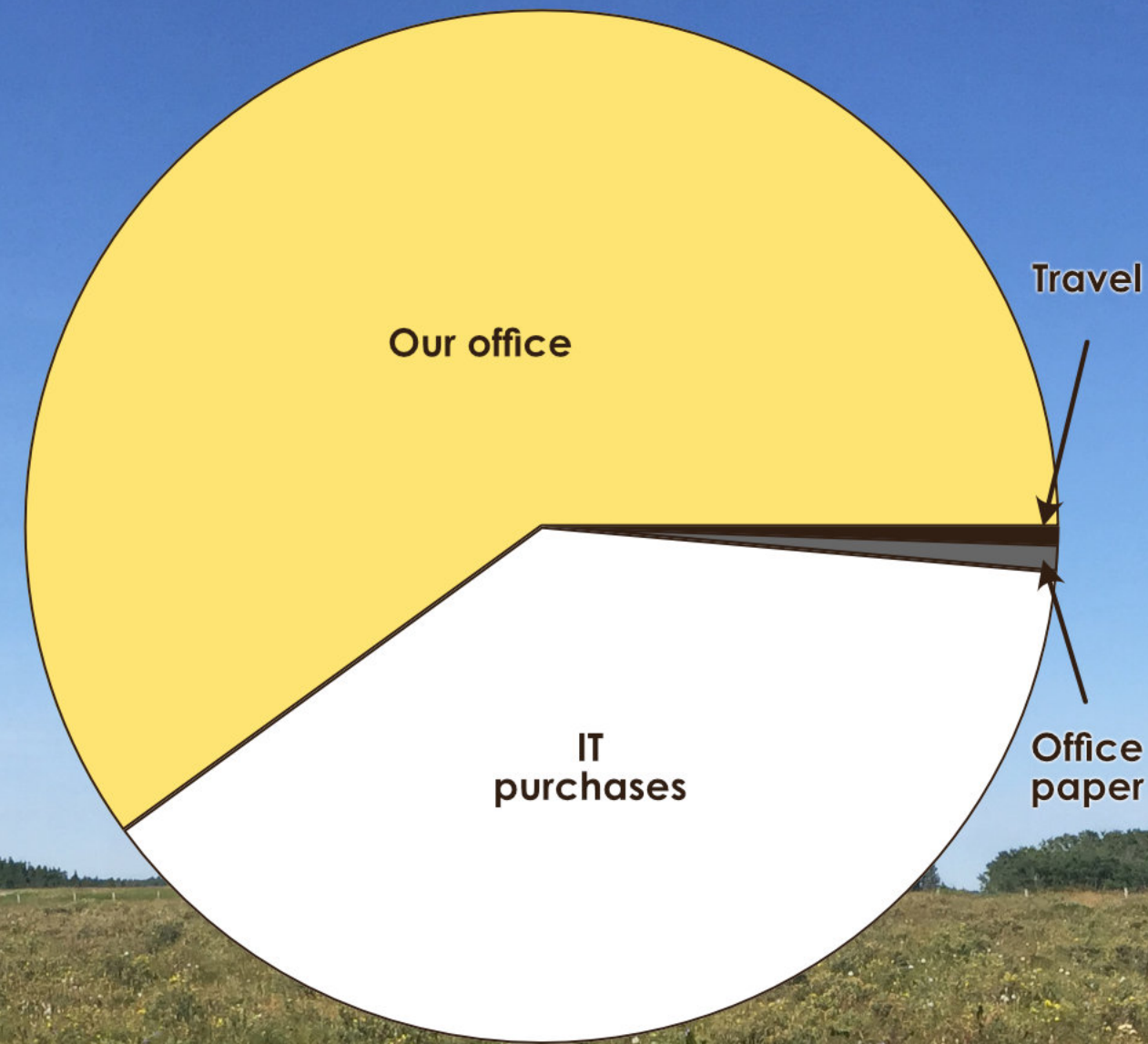
Our Carbon Footprint

How It's Calculated

Our carbon footprint was calculated using the World Business Council for Sustainable Development / World Resources Institute's *GHG Protocol*, including the supplemental *Corporate Value Chain (Scope 3) Accounting and Reporting Standard*.

What's Included

Scope 1 and 2 emissions include the apportioned emissions from stationary combustion (natural gas for heating) as



well as from imported energy (electricity) for our home-based office. In line with our 2020 Climate Commitment and Action Plan, we have also expanded the coverage of our Scope 3 emissions footprint this year, and are now reporting the categories of 'Capital Goods' (purchases of IT assets) and 'Purchased Goods and Services' (office paper) as well as the 'Business Travel' and 'Employee Commuting' that we have previously reported.

Our 2021 Carbon Footprint

Our Results

Our 2021 footprint was **1.22 tonnes CO₂e**. Our office accounted for 60% of our footprint (40% due to natural gas for heating and 20% due to electricity imports). Most of the rest of our footprint in 2021 came from capital purchases (a new desktop computer) with travel accounting for only 1%.

What's Changed

In 2020, Firefly adopted major changes including the installation of a solar PV system, switching to an electric vehicle, and purchasing 100% ECO Logo certified green electricity. 2021 saw the first full-year of production from the solar PV system, as well as reduced travel (and with that travel made using active transportation or the EV). By comparison, the baseline year (2019) included both airline and bus travel, as well as the occasional use of an internal combustion engine (ICE) vehicle to



Our 2021 Carbon Footprint

attend meetings. Finally, in 2021, we bought a new desktop computer.

This Is How We Got To Net Zero

In 2019 we made the commitment to get to net-zero, and first achieved this goal in 2020. To do this again for 2021, we started by quantifying our business-as-usual (baseline) footprint. Without the reduction actions we took - using our EV and our solar PV system - our 2021 footprint would have been 11.5% higher, at 1.36 tonnes CO₂e.

We then continued to purchase green electricity for our imports and also exported solar energy onto the grid for use by other Albertans.

Finally, we offset the remainder of our footprint by funding the reforestation of mangrove trees in Madagascar through our partner, TreeEra.

