

# Novex Delivery Solutions FY2018, FY2019, FY2020 GHG Emissions Summary Report

November 2021



## Overview

This report summarizes the findings of a detailed greenhouse gas (GHG) emissions inventory conducted for Novex Delivery Solutions (Novex) for FY2018, FY2019, and FY2020, which corresponds to the time period from November 1<sup>st</sup>, 2017 to October 31<sup>st</sup>, 2020. It follows the accounting and reporting guidelines of *The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard, Revised Edition*, published by the World Resources Institute (WRI) and the World Business Council for Sustainable Development (WBCSD), which is the industry standard for corporate GHG inventories.

This report references emissions back to 2007, when Novex began tracking their organizational GHGs. Novex generated a total of 926.7 tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e) in FY2018, 926.8 tCO<sub>2</sub>e in FY2019, and 754.7 tCO<sub>2</sub>e in FY2020, as shown in Table 1.

**Table 1. Novex's FY2018, FY2019, and FY2020 GHG Emissions**

Emissions Source	Annual GHG Emissions (tCO <sub>2</sub> e)			% Change	
	2018	2019	2020	2018 to 2019	2019 to 2020
<b>Scope 1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0%</b>	<b>0.0%</b>
<b>Scope 2</b>	<b>1.0</b>	<b>1.2</b>	<b>1.0</b>	↑ <b>22.4%</b>	↓ <b>-15.4%</b>
Electricity (location-based)	1.2	1.4	1.2	↑ 22.4%	↓ -15.4%
Electricity (market-based)	1.0	1.2	1.0	↑ 22.4%	↓ -15.4%
<b>Scope 3</b>	<b>925.7</b>	<b>925.6</b>	<b>753.7</b>	↓ <b>-0.01%</b>	↓ <b>-18.6%</b>
Employee Commute	38.3	38.3	30.8	0.0%	↓ -19.5%
Small Couriers	676.9	699.1	571.0	↑ 3.3%	↓ -18.3%
Freight Trucks	210.5	188.2	151.9	↓ -10.6%	↓ -19.3%
<b>OVERALL TOTAL</b>	<b>926.7</b>	<b>926.8</b>	<b>754.7</b>	↑ <b>0.01%</b>	↓ <b>-18.6%</b>

*Note: Figures may not add due to rounding.*

To provide context for the emissions listed in this report, Novex’s 2020 carbon footprint (754.7 tCO<sub>2</sub>e) is the equivalent<sup>1</sup> of:

- The annual emissions of over 39 typical Canadians
- Driving approximately 3,500 passenger vehicles for one year
- Combusting over 280,000 litres of gasoline

Novex does not have any Scope 1 emissions since their office is heated with electricity, and they do not own any fleet vehicles. From FY2018 to FY2020, Novex purchased Renewable Energy Certificates (RECs) from Bullfrog, which have mitigated all their Scope 2 emissions for FY2018 and FY2020, and the majority of their Scope 2 emissions for FY2019 (see Table 2, below).

**Table 2. Novex’s FY2018 to FY2020 avoided GHG emissions through purchased RECs**

Emissions Source	Annual GHG Emissions (tCO <sub>2</sub> e)		
	2018	2019	2020
Scope 2 (electricity, market-based)	1.0	1.2	1.0
Purchased RECs	-1.1	-1.1	-1.1
<b>Adjusted Scope 2 Emissions</b>	<b>0.0</b>	<b>0.05</b>	<b>0.0</b>

*Note: Figures may not add due to rounding.*

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<sup>1</sup> Greenhouse Gas Equivalencies Calculator, Environmental Protection Agency (EPA)  
<https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator>

## Reduction Strategies

Novex’s largest source of emissions is the contracted drivers that complete their deliveries (see Figure 1, below). In FY2020, 76% of Novex’s total footprint was from small couriers, while 20% was from delivery via freight trucks. Novex already contracts a number of drivers with hybrid or electric vehicles. In order to reduce year-over-year emissions, Offsetters recommends that Novex continues to increase the number of contracted drivers with lower emissions vehicles (e.g., hybrid or electric).

The majority of Novex employees travel to work using a personal vehicle. To reduce emissions from employee commuting, Novex can encourage ride sharing, use of public transportation, biking, and walking. The strategies described below can be implemented once COVID-19 restrictions have been lifted.

- Provide bicycle parking, EV charging stations, shower facilities, discounted transit passes, etc.
- Create incentives for greener commuting (friendly internal competitions with prizes for greenest commuters or most improved commutes, participate in Bike-to-Work week, etc.)
- Initiate carpool or ride-sharing program to help facilitate alternatives to single occupancy rides
- Communicate the GHG impacts of commuting to employees

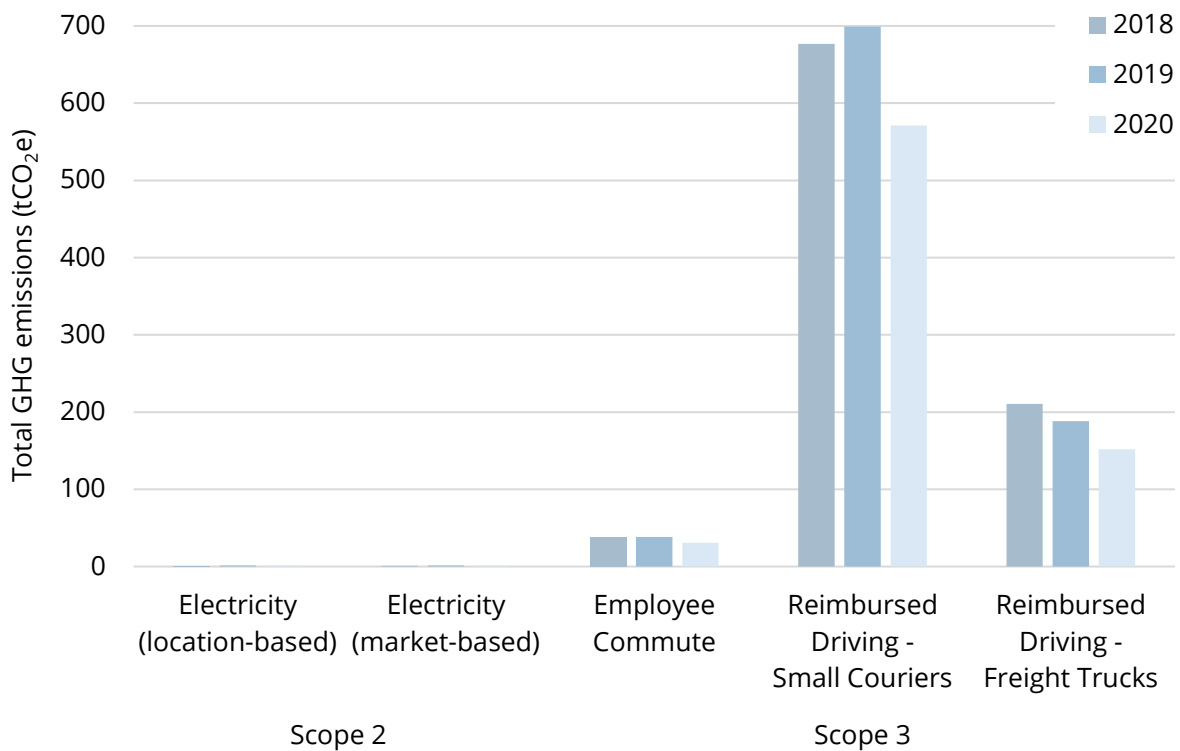


Figure 1. Novex’s FY2018, FY2019, and FY2020 GHG Emissions by Source

## Target Setting

After conducting their baseline GHG Inventory in 2007, Novex set a reduction target to decrease GHG emissions 33% by 2020. Novex exceeded this target by a large margin, reducing emissions 59% by FY2020 compared to FY2007 levels. In addition to evaluating absolute emissions, Offsetters also calculated Novex’s emissions intensity per delivery, and per kilometre travelled by couriers. Intensity metrics take into account increases or decreases in business activities as shown in Table 4; this enables companies to accurately track emissions efficiency overtime. From FY2007 to FY2020, Novex increased the efficiency of their operations, emitting 2.8% fewer GHGs per courier kilometre as shown in Table 5.

**Table 4. Novex’s Emissions Intensity per Delivery for FY2018, FY2019, and FY2020**

Year	Emissions Intensity (tCO <sub>2</sub> e/delivery)	% Difference from previous year	
2018	0.0024		
2019	0.0023	↓	0.8%
2020	0.0024	↑	0.2%

**Table 5. Novex’s Emissions Intensity Trend per Courier Kilometer from FY2007 to FY2020**

Year	Emissions Intensity (kg CO <sub>2</sub> e/kilometer)	% Difference from previous year	
2007	0.246		
2008	0.247	↑	0.5%
2009	0.241	↓	-2.5%
2010	0.248	↑	3.2%
2011	0.250	↑	0.5%
2012	0.261	↑	4.0%
2013	0.284	↑	9.0%
2015	-		
2017	-		
2019	0.236	↓	-6.8%
2020	0.239	↑	1.5%
<b>% Difference 2007 to 2020</b>		<b>↓</b>	<b>-2.8%</b>

Novex has already reached net zero emissions by purchasing carbon offsets to mitigate their operational emissions. In order to take the next step, Novex has set a goal to compete all deliveries in electric vehicles by 2035. This corresponds to an absolute emissions target of 114 tCO<sub>2e</sub>, assuming that emissions from utilities and employee commuting remain constant. A linear trajectory toward 114 tCO<sub>2e</sub> by 2035 is shown in Figure 2, below, which is based on emissions previously stated in Novex's GHG inventory reports prepared by Offsetters. Having surpassed their original target, Novex is currently on track to reach their new goal.

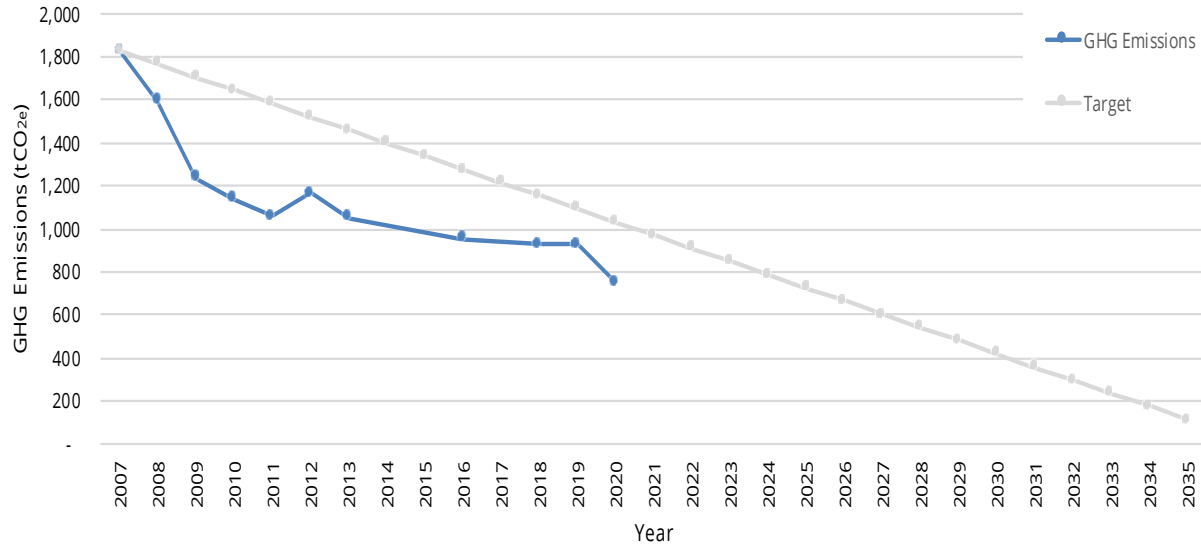


Figure 2. Historical Greenhouse Gas Emissions (tCO<sub>2e</sub>) and 2035 Emissions Target

## Carbon Neutral Status

In most cases, organizations aren't able to reduce 100% of their operational emissions and are left with unavoidable GHGs. To go beyond this reductions barrier, and take full responsibility for their emissions, organizations can purchase carbon offsets to mitigate their GHGs and achieve carbon neutrality (net zero emissions). A carbon offset is an investment in a project with a real and measurable emissions reduction, and can help organizations meet their carbon targets in a cost-effective way.

To mitigate their climate impacts in FY2018, FY2019, and FY2020, Novex has purchased 2,608 tonnes of carbon offsets from Offsetters' General Portfolio. The General Portfolio is a collection of high quality offset projects from British Columbia and around the world. For more information on the projects Novex is supporting, please visit:

<https://www.offsetters.ca/project-services/offset-projects/by-portfolio/general>.

