

# Maplesoft Group

A N S E B C O M P A N Y

## 2025 Emissions Report

In support of the Net-Zero Challenge (NZC)

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## Greenhouse Gas (GHG) Emissions Inventory:

Consumption Data Summary:			
	Unit	Amount Consumed in Baseline Year (2023)	Amount Consumed in 2025:
Natural Gas	m3	8,026	8,079
Electricity	kWh	76,513	86,904
GHG Emissions:			
<b>Scope 1:</b> <i>Natural Gas</i>	tCO2e	15.5	15.6
<b>Scope 2:</b> Electricity (Location-based)	tCO2e	4.5	5.1
<b>TOTAL</b>	tCO2e	20.0	20.7

*The above table does not reflect any international emissions outside of Canada. Note that this data has been updated to reflect the most recent emissions factors published within the National Inventory Report (NIR).*

### Methodology:

- **Approach and Boundary:** Our greenhouse gas inventory is calculated using the operational control approach, as outlined by the World Resources Institute and World Business Council for Sustainable Development's [Greenhouse Gas Protocol](#). The organizational boundary of this inventory includes data from our Canadian operations.

Carbon dioxide, methane and nitrous oxide are included in all emission totals for natural gas. Our base year is 2023.

- **Consumption Measurements:** Energy consumption data (electricity and natural gas) for our corporate office were obtained from utility bills and prorated based on area occupied.
- **Emissions Calculations:** All emissions were calculated using the global warming potential (GWP) values for the 100-year time horizon, from the [IPCC Sixth Assessment Report](#), 2021 (AR6). Emissions from natural gas and electricity were calculated using emission factors from Environment and Climate Change Canada's [National Inventory Report 1990-2022: greenhouse gas sources and sinks in Canada](#).

## Explanation of Changes from Baseline Inventory to the 2025 Annual Inventory:

As detailed in the above inventory, there has been a slight increase in Maplesoft's total GHG emissions between our baseline inventory (2023) and our 2025 inventory. These changes can be attributed to **Increased Heating/Cooling Degree Days**. A heating/cooling degree is allocated for each degree (Celsius) that the daily mean temperature deviates either below or above the baseline of 18 degrees Celsius. This metric can be used to estimate future energy requirements and can also reflect increased energy consumption.

This is relevant due to the fact that the 2025 calendar year had significantly more heating and cooling degree days compared to our baseline year (2023), as reflected below:

Calendar Year	Heating Degree Days	Cooling Degree Days
2023	4,054	265
2024	3,839	294
2025	4500	305

Source: [ottawa.weatherstats.ca](http://ottawa.weatherstats.ca)

Based on this data, 2025 saw an 11% increase in heating degree days and a 15% increase in cooling degree days over 2023 (Maplesoft's baseline year). This increase directly corresponds to increased electricity and natural gas usage for facility cooling/heating respectively and is thus reflected in our overall emissions inventory for 2025.