



Synergy Enterprises

May 1, 2023 to April 30, 2024

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Executive Summary

Synergy Enterprises ('Synergy') is a sustainability consultancy based in Victoria, BC, working with other businesses to empower climate action. 2024 marks the 2nd year that Synergy has measured and reported it's emissions. Synergy shares office space with a sister non-profit, Synergy Foundation. As a result, the energy, water and waste footprints associated with Synergy Enterprises operations are approximately 58% of the total usage for the space.

In 2024, Synergy moved from it's 1,600 sq ft. office on Johnson St. to a 5,984 sq ft. office on Broughton St. This Inventory includes emissions associated with the construction of the new office.

Synergy's 2024 fiscal year (FY) totaled 157 tCO₂e. Construction emissions resulted in 122 tCO₂e, with emissions in the categories purchased goods and services and capital goods. The second largest emissions source was company travel, accounting for 15% of the total footprint (23.0 tCO₂e).
Following travel was natural gas at 3.0% (4.67 tCO₂e). This is Synergy's first year measuring capital goods, fuel and energy activities, and an expanded purchased goods and services.

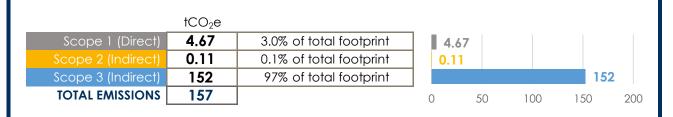
As a signatory of the Glasgow Declaration, Synergy Enterprises has set a target to reduce its carbon footprint 50% by 2030 based on the 2023 baseline.

Company Name	Synergy Enterprises				
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	Synergy operates from one office location in Victoria, BC. During FY 2024, Synergy moved from a 1,600 sqft office to a new 5,984 sqft office, and had 12 full time staff members.				
Reporting Period May 1, 2023 to April 30, 2024					
	Scope 1 (Direct Emissions) Natural Gas				
	Scope 2 (Indirect Emissions from Purchased Electricity)				
Inventory Boundary	Purchased Electricity (BC Hydro)				
	Scope 3 (Indirect Emissions from Other Sources)				
	Waste, Purchased Goods & Services, Capital Goods, Fuel & Energy Activities, Company Travel, Staff Commuting, Work from Home				
Scope 2 Approach	Scope 2 Approach Location Based Emissions Calculation				
Consolidation Approach	ach Operational Control: Accounting for 100% of emissions from operations over which the company has operational control.				
Primary Measurement Greenhouse gas emissions measured in Carbon Dioxide Equivale		quivalent (CO2e)			
Reporting Guidelines	-	d with those defined in The Greenhouse Gas Protocol: A Corporate nting and Reporting Standard, Revised Edition (The GHG Protocol, hgprotocol.org) .			

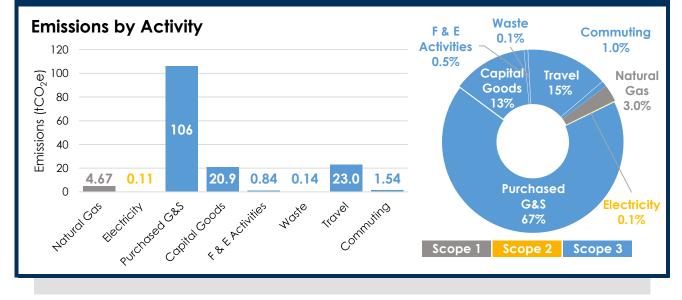
Inventory Information



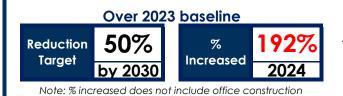
Carbon Footprint by Scope



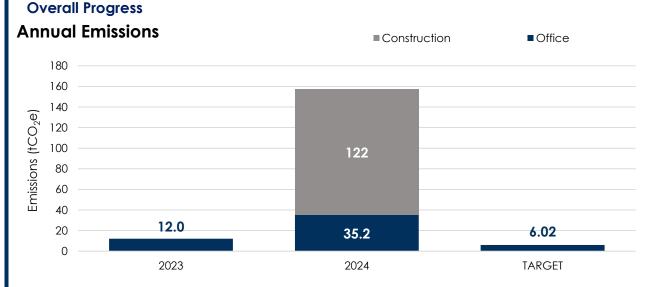
Carbon Footprint By Activity



Carbon Footprint Review & Reduction Targets

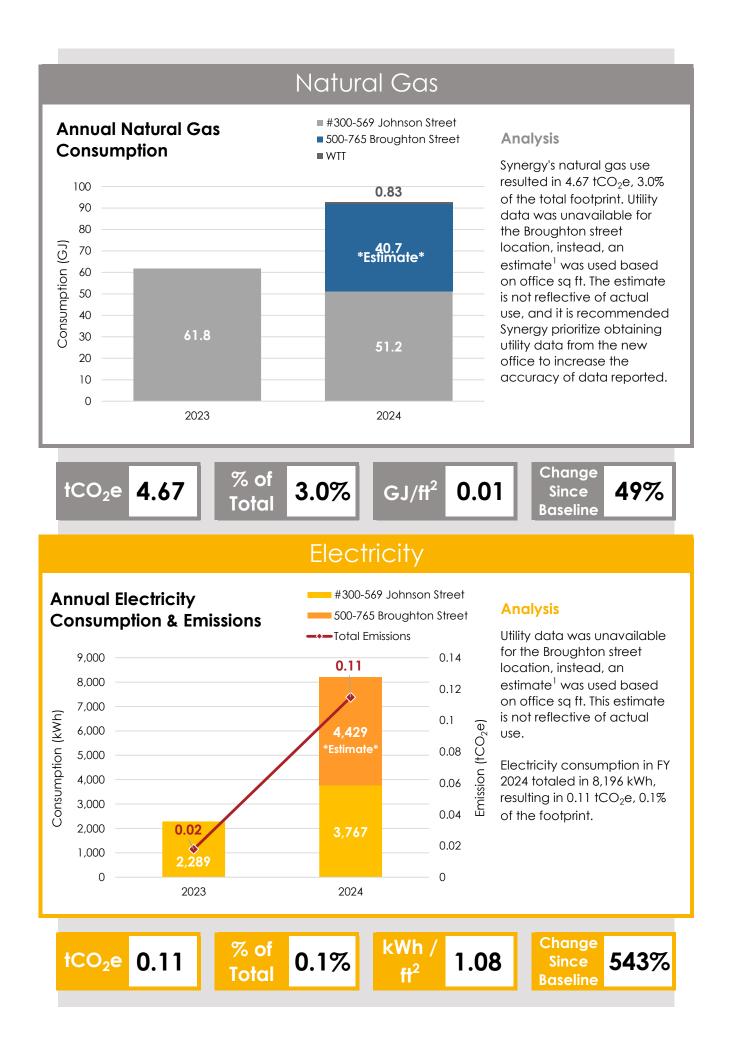


As part of their commitment as a signatory of the Glasgow Declaration, Synergy Enterprises has committed to reducing emissions 50% by 2030 based on 2023 levels.



Notes on Targets

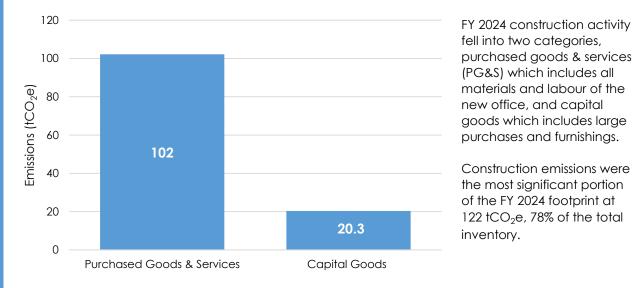
The construction of Synergy's new office space resulted in 122 tCO₂e, with Synergy's regular business activity related emissions producing 35.2 tCO₂e, a 192% increase over the 2023 baseline. This is a result of a 262% increase in travel emissions and a 191% increase in psg-km flown by Synergy staff. To meet Synergy's emission reduction targets set in alignment with the Glasgow Declaration, Synergy should focus on reducing emissions from business travel as it contributes to 45% of non-construction related emissions.



New Office Construction

Construction Category Emissions

Analysis



Analysis

The highest emission source of construction was the HVAC equipment, resulting in 26.8 tCO2e, 22% of the construction emissions. This was followed by plastics at 19.4 tCO₂e 13% of construction emissions.

Synergy avoided 9.78 tCO₂e by purchasing second hand items like the boardroom table, reclaimed wood used for the call room tables, and recycled items such as the carpeting and chairs.

Construction Emissions Breakdown 30 25 Emissions (†CO₂e) 20 15 26.8 10 19.4 16.0 13.3 12.2 10.2 5 9.50 9.06 5.45 0 HYAC Equipment PIOSICS Nood Products Codifieds Appliances Cost Construction about Gost Products Codifieds Construction Gost Products Gost Products Construction Gost Products Construction Gost Products Construction Constructico Construction Construction Construction Construction Construct other

9.78



Waste Generation in Operations

Landfill Organic Recycling Diversion Rate 120% 1,000 900 98% 96% 100% 800 700 ð Production (kg) 80% 665 Emissions (†CO 600 60% 500 559 400 40% 300 200 273 20% 100 175 16.9 36.0 0% 0 2023 2024

Analysis

Waste production increased from 751 kg to 974 kg, reflecting a larger team size and a change in office location. Despite this increase, Synergy maintained a diversion rate over 95%. FY 2024 waste production resulted in 0.14 tCO₂e, a

41% increase over the baseline year, 0.1% of the total footprint.

Change

Since

Baseline

41%

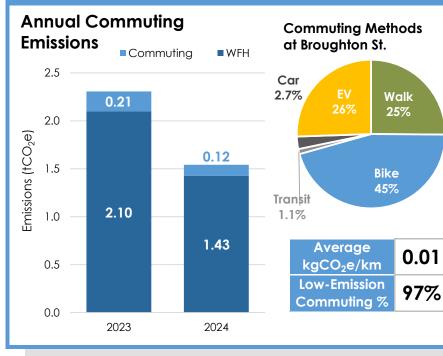
tCO2e 0.14

Annual Waste Production

% of Total 0.1%

6 96% Diversion Rate

Employee Commuting



Analysis

Commuting and WFH emissions in 2024 totaled $1.54 \text{ tCO}_2\text{e}$, 1.0% of the footprint.

Commuting and WFH emissions in FY 2024 decreased 44% and 32%, respectively, compared to the 2023 baseline.

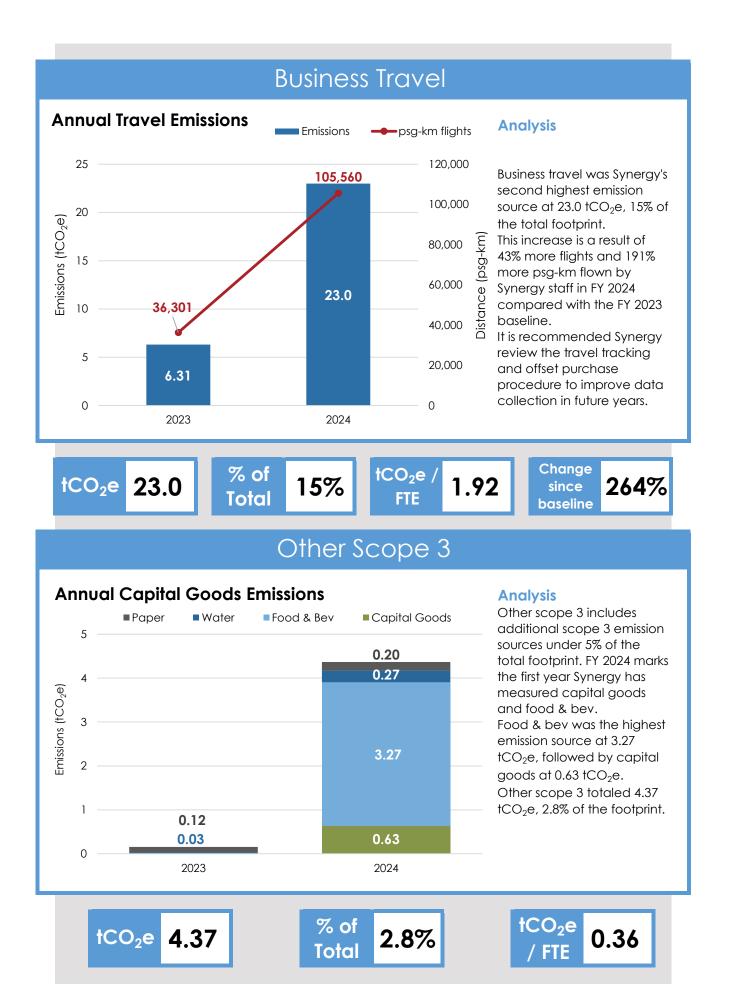
Synergy achieved 97% lowemission commuting rate, with gasoline vehicle use at 2.7% of company wide commuting methods.

tCO₂e 1.54

% of Total 1.0%



Change Since Baseline



Conclusion

Synergy's FY 2024 totaled 157 tCO₂e. 122 tCO₂e were a direct result of constructing the new office space, with emission sources from capital goods and purchased goods and services. The second largest emissions source was company travel, accounting for 15% of the total footprint (23.0 tCO₂e), followed by natural gas at 3.0% (4.67 tCO₂e).

As a signatory of the Glasgow Declaration, Synergy Enterprises has set an emissions reduction target of 50% by 2030 based on the 2023 baseline. To achieve this reduction, it is recommended to focus on reducing flights wherever possible, opting for low-emission alternatives if available.

Achievements

- Avoided 9.78 tCO $_2$ e of construction emissions through sustainable purchasing choices.

- Reduced commuting and WFH emissions 33% since the 2023 baseline.

Moving Forward

- Collect heating and electricity consumption data for the new office to improve data quality and reflect actual impact of Synergy's office use.

- Review the travel tracking and offset purchase procedure to improve data collection in future years.

Data Collection & Methodologies

Emission Source	Data Type	Data Quality	Notes
Natural Gas	Invoices / N/A	17/20	
Electricity	Invoices / N/A	15/20	This table details the type of data
Water	Invoices / N/A	17/20	received from Synergy Enterprises to
Waste	Estimate/Waste Tracking Worksheet	15/20	generate this report. Data quality is assessed on five categories:
Construction	Invoices	16/16	technology, time, geography, reliability
Food & Bev	Account Summary	16/16	and completeness. The purpose of this
Capital Goods	Account Summary	16/16	table is to provide further information on
Company Travel	Account Summary	13/16	the values in this report and what
Paper	Account Summary	16/16	sources were used to calculate them.
Commuting	Staff Survey	16/16	

Information on Inventory Uncertainty

* Waste data for the Johnson St. location was unavalible. Previous years data and FTEs were used to estimate FY 2024 production.

* 1. Utility data for the Broughton street location were unavalible. The missing data was estimated using averages per sq ft. and FTEs. * Synergy Enterprises office is shared with Synergy Foundation, as a result, an ownership percentages was applied to shared office facilities to estimate Synergy Enterprises contribution.

* Improved factors have been applied to calculate the emissions from paper. These improved factors may cause a decrease in emissions per kg of paper used.

Emissions References

1. 2022 B.C. Best Practices Methodology for Quantifying Greenhouse Gas Emissions https://www2.gov.bc.ca/assets/gov/environment/climate-change/cng/methodology/2021-bestpractices-methodology_for_archive.pdf

2. Environment Canada's National Inventory Report (1990-2021); Part 2 & 3. https://publications.gc.ca/collections/collection 2023/eccc/En81-4-2021-2-eng.pdf

https://publications.gc.ca/collections/collection 2023/eccc/En81-4-2021-3-eng.pdf

3. Department for Environment, Food & Rural Affairs (UK) Carbon Factors 2023 https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2023

4. Intergovernmental Panel on Climate Change (Global Warming Potentials) https://www.ipcc.ch/report/ar6/wg1/downloads/report/IPCC_AR6_WGI_Chapter07.pdf

5. UK WRAP Emissions Factor Database V1 .2 (2023)

https://www.wrap.ngo/resources/guide/scope-3-ghg-measurement-and-reporting-protocols-foodand-drink_

Policy for Base Year Recalculation:

Base year emissions, and other previous emissions, shall be retroactively recalculated if a change in organizational structure or data quality is expected to exceed a significance threshold of 10% of base year emissions. These changes may arise from structural changes such as mergers, acquisitions, divestments, outsourcing or insourcing, changes in calculation methodology and improvements in accuracy, or discovery of significant errors.

Glossary of Terms

Term	Description		
Carbon Neutral			
Emissions Factor			
GHG	Greenhouse Gas (emissions): Atmospheric gasses contributing to the greenhouse effect including Carbon Dioxide (CO_2), Methane (CH_4), Nitrous Oxide (N_2O), etc.		
GJ	Gigajoule : Unit of natural gas equal to 26.137 m ³ or 0.947 MMBtu		
kWh	Kilowatt-Hour: Common unit for measuring electrical consumption		
WTT	Well to Tank: Upstream emissions from extraction, processing and transport of fuel.		
Net-Zero Companies with a zero-emission carbon footprint, usually achieved by minim and negating the remaining emissions through carbon removal activities.			
psg-km	sg-km Passenger-Kilometer: Unit separating total emissions between passengers per km		
tCO ₂ e Tonnes of Carbon Dioxide Equivalent : a combined term capturing the emissions from various GHGs.			

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