

# St Michael's Centre Hospital Society

## 2023 PSO Climate Change Accountability Report

**Title:** 2023 PSO Climate Change Accountability Report

**Organization:** St Michael's Centre Hospital Society

### PART 1. Legislative Reporting Requirements

**Declaration statement:** This PSO Climate Change Accountability Report for the period January 1, 2023 to December 31, 2023 summarizes our greenhouse gas (GHG) emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2023 to minimize our GHG emissions, and our plans to continue reducing emissions in 2024 and beyond.

#### Emission Reductions: Actions & Plans

##### A. Stationary Sources (e.g. buildings, power generation)

From October 2022 to September 2023, St Michael's Centre upgraded its outdated HVAC system by replacing the aging components with modern technologies and integrating these technologies with an improved Building Automation System utilizing professional engineering insight to provide an improved ability to monitor, modulate, and automate indoor climate control within the facility. The payoff is already tangible, as our Natural Gas Consumption has reduced by 14% year on year (graph below), with a corresponding similar drop in our carbon emissions for 2023 versus 2022.

Natural Gas Consumption / Last 12 months



Electricity accounts for 33% of our building's energy usage, and we plan on conducting a lighting inventory and lighting retrofit in the near future via a BC Hydro Power Alliance lighting engineer in order to replace existing fluorescent and incandescent lighting with LED lighting. This will not only

reduce significantly the electricity required to power our lighting, it will also serve to help cool the building in summer months by removing almost all waste energy that is converted to heat through inefficient lighting (up to 90% of incandescent lighting energy).

## B. Mobile Sources (e.g. fleet vehicles, off-road/portable equipment)

The majority of meetings are conducted virtually at St Michaels, offsetting the carbon emissions from road travel.

Our sole vehicle, a wheelchair accessible bus to transport residents for outings travels only locally less than 1,000 km annually. This bus is serviced regularly twice/year to ensure it is running in the most environmentally efficient manner.

## C. Paper Consumption

As part of our waste management program, all waste paper is recycled from all our offices and our shared printer is set as default to print double sided.

### 2023 GHG Emissions and Offsets Summary Table

<b>St Michael's Centre Hospital Society 2023 GHG Emissions and Offsets Summary</b>	
<b>GHG emissions for the period January 1 - December 31, 2023</b>	
Total BioCO <sub>2</sub>	0.027823
Total Emissions (tCO <sub>2</sub> e)	321
Total Offsets (tCO <sub>2</sub> e)	321
<b>Adjustments to Offset Required GHG Emissions Reported in Prior Years</b>	
Total Offsets Adjustment (tCO <sub>2</sub> e)	0
<b>Grand Total Offsets for the 2023 Reporting Year</b>	
Grand Total Offsets to be Retired for 2023 Reporting Year (tCO <sub>2</sub> e)	321
Offset Investment (\$)	321 x \$25 = \$8025

### **Retirement of Offsets:**

In accordance with the requirements of the *Climate Change Accountability Act* and the Carbon Neutral Government Regulation, St Michael's Centre (**the Organization**) is responsible for arranging for the retirement of the offsets obligation reported above for the 2023 calendar year, together with any adjustments reported for past calendar years (if applicable). The Organization hereby agrees that, in exchange for the Ministry of Environment and Climate Change Strategy (**the Ministry**) ensuring that these offsets are retired on the Organization's behalf, the Organization will pay within 30 days, the associated invoice to be issued by the Ministry in an amount equal to \$25 per tonne of offsets retired on its behalf plus GST.

## **PART 2. Public Sector Climate Leadership**

### **2A. Climate Risk Management**

As part of St Michael's Heat Management Strategy, with assistance from the Ministry of Health, our building has upgraded its HVAC system to provide central air conditioning in many areas of the building, particularly in our large dining rooms, nursing stations, medication rooms and offices, with the most direct exposure to the sun.

The updated HVAC includes an upgraded building automation system to help regulate temperature that has had a measurable effect on reducing our gas consumption.

St Michaels Centre, its staff and our residents are very grateful to the Ministry of Health for the funding of \$676,000 towards this HVAC upgrade.

In addition, we conduct preventive maintenance work on our HVAC system to ensure it is running in the most efficient manner, and rent additional portable air conditioners in the summer to mitigate heat stress for our staff and vulnerable residents.

Finally we upgraded our washers and dryer to more energy efficient models in April 2024, which has significantly reduced the temperature in our laundry, and has had a noticeable effect on our electricity consumption.

### **2B. Other Sustainability Initiatives**

Deposit bottles/cartons are regularly returned to a recycling depot by our kitchen.



### **2C. Success Stories**

St Michael's Centre's greatest success in our carbon reductions for 2023 is directly attributable to our upgraded HVAC, with its Building Automated System regulating the temperature in the building that has led to a 14% reduction in carbon emissions from reduced Natural Gas consumption (see graph below).

**Year Over Year Natural Gas Emission / Last 12 months compared to previous period**



**Executive Sign-off:**

		MAY 24, 2024.
Signature	Date	
ALEX MATHIESON	Arif Padamshi, CEO	FINANCE MANAGER / CEO.
Name (please print)	Title	