



## **St. Michael's Centre – 2014 Carbon Neutral Action Report**

### **Executive Summary**

St. Michael's Centre is a 128 bed complex care facility and 16 bed hospice located on Sussex Avenue in Burnaby, BC. The facility was constructed in 1981, added on to in 1992 and partially renovated in 2002 - to develop the hospice program. It is an aging facility as much of our building services were installed in 1981 and 1992. It is a denominational care organization with the Anglican, Roman Catholic and United Churches as founders. These denominations continue to support the organization through their guidance and active participation on the Board of Directors.

### **Overview**

#### **Actions Taken to Reduce Greenhouse Gas Emissions**

St. Michael's Centre is continually striving to reduce its consumption of energy in order to reduce its Carbon Footprint.

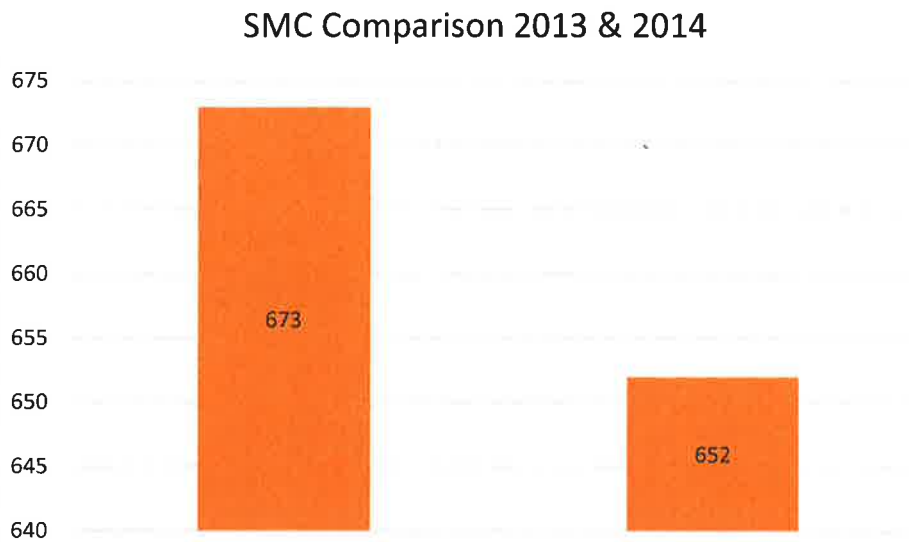
Some of our implemented initiatives include:

- Installed a high efficiency Rational Combi-Oven in our kitchen, reducing our energy consumption for this appliance by approximately 30%.
- Reduced our paper usage through email distribution of all pay stubs and various other communications and memo's to staff.
- Have implemented a thorough building equipment Preventative Maintenance program with an external vendor to ensure all equipment is being properly maintained in order to ensure the best energy efficiency.

Some future initiatives in 2015 are:

- Redirect all food waste away from landfills and compost organics.
- As old equipment requires replacing, replacing them with energy efficient options.
- Renovating our old tub room with water efficient bath and showers.

## Comparison of GHG emissions 2013 – 2014



Between 2013 and 2014, St. Michael's has reduced its GHG emissions by 21 tonnes. Our total GHG Emissions for 2014 were 652 and our total GHG offsets were 652.

### Plans to Continue

We will remain committed within our available resources and funding to investigate further opportunities for improvement.

Blake Armstrong  
Senior Operations Leader

# 2014 Carbon Neutral Action Report (CNAR) - Part 2 ACTIONS

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## Organization Name

St. Michael's Care Centre

## Actions Taken to Reduce Emissions

### 1) Stationary Fuel Combustion, Electricity (Buildings): Indicate which actions were taken in 2014:

Performed energy retrofits on existing buildings

No

Built or are building new LEED Gold or other "Green" buildings.

No

Undertook an evaluation of overall building energy use.

No

Please list any other actions taken to reduce emissions from Buildings:

We have installed a high efficiency combi-oven in our Kitchen in Oct. 2014, utilizing approximately 30% less energy than previous convection oven.

### 2) Mobile Fleet Combustion (Fleet and other vehicles): Indicate which actions were taken in 2014:

Do you have a fleet?

Yes

Replaced existing vehicles with more fuel efficient vehicles (gas/diesel)

No

Replaced existing vehicles with hybrid or electric vehicles

No

Reduced the overall number of fleet vehicles

No

Took steps to drive less than last year

No

Please list any other actions taken to reduce emission from fleet:

In March 2015 - had bus taken for full service to improve overall operation and fuel, vehicle efficiency.

**3) Supplies (Paper):Indicate which actions were taken in 2014:**

Used less paper than previous year

Yes

Used only 100% recycled paper

Yes

Used some recycled paper

No

Used alternate source paper (Bamboo, hemp, etc.)

No

Please list any other actions taken to reduce emissions from paper use:

(No response)

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### **Actions Taken to Reduce Emissions - continued**

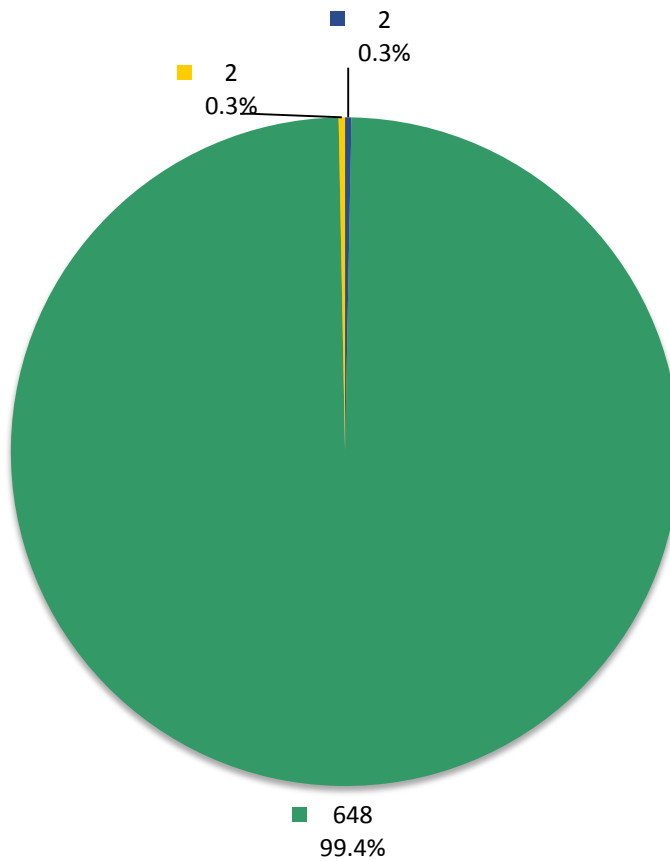
Explain how you plan to continue minimizing emissions in 2015 and future years:

Transitioning to the composting all organics.

If you wish to list any other "sustainability actions" outside of buildings, fleet, paper and travel check "yes". This reporting is optional.

No

**St. Michael's Centre  
Greenhouse Gas Emissions by Source  
for the 2014 Calendar Year (tCO<sub>2</sub>e\*)**



**Total Emissions: 652**

- Mobile Fuel Combustion (Fleet and other mobile equipment)
- Stationary Fuel Combustion (Building Heating and Generators) and Electricity
- Supplies (Paper)

**Offsets Applied to Become Carbon Neutral in 2014 (Generated June 22, 2015 4:41 PM)**

Total offsets required: **652**. Total offset investment: **\$16,300**. Emissions which do not require offsets: **0** \*\*

\*Tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e) is a standard unit of measure in which all types of greenhouse gases are expressed based on their global warming potential relative to carbon dioxide.

\*\* Under the *Carbon Neutral Government Regulation of the Greenhouse Gas Reduction Targets Act*, all emissions from the sources listed above must be reported. As outlined in the regulation, some emissions do not require offsets.