

CARBON NEUTRAL ACTION REPORT 2013 – SMALL EMITTERS FORM

[This form is for the use of BC Public Sector Organizations that had GHG emissions of less than 600 tonnes Co2e in the 2012 reporting year, which as a group, equals less than 1% of all PSO emissions]

Organization Name

Royal BC Museum

Contact name

Pam Lowings

2013 Total Emissions

105

2013 Total Emissions for Offsets

105

Changes to previous years emissions (if applicable)

N/A

Over or Underpayments held by PCT (if applicable)

146

Total Offsets Purchased for 2013

41

List the top three actions taken by your organization in 2013 to reduce GHG emissions and/or improve sustainability

Action

1. The Royal BC Museum participated in the BC Hydro Continuous Optimization program. As part of that program we contracted with an Energy Manager consultant, Avalon Energy Management. Avalon Energy Management identified some operational improvements which were approved by BC Hydro and those measures were completed in 2013. The Royal BC Museum met the identified conservation goals and in a 12-month comparison ending in October 2013, the Royal BC Museum achieved a 9% reduction in spite of new HVAC equipment that was installed over the last few years (to ensure proper temperature and humidity control was achieved in 2 galleries allowing us to maintain ASHRAE AA standards) and a reduction in the amount of chilled water the government Central Heating plant send to the Royal BC Museum (by raising the ambient outdoor temperature from 8C to 12C) and the Royal BC Museum chillers automatically making up the difference.

2. Using computer power management software (originally installed in 2009) – our annual energy savings for 218 computers in 2013 were 92,528 kWh.

3. Six additional new low flush (1.6 gpf/6.0 lpf) toilets were installed on the Royal BC Museum campus.

Through our ongoing commitment to sustainability, our recycling program continued to grow and we recycled:

- ✓ Wood - 1780 kilograms
- ✓ Metal - 1330 kilograms
- ✓ Glass - 200 kilograms
- ✓ Cardboard, paper, clean plastics and tin - 39,150 kilograms
- ✓ Miscellaneous - 25,380 kilograms

Describe Plans your organization has for continuing to minimize your GHG emissions

As part on our ongoing commitment to sustainability and minimizing our GHG emissions, we will continue:

- ✓ to work with our Energy Management consultant on implementing energy conservation actions to further reduce our energy consumption;
- ✓ continuing to be a bottled-water-free zone and not purchasing bottled water for our meetings or events;
- ✓ using low VOC paint whenever possible;
- ✓ using hand washing soap in all washrooms with green-certified hand wash;
- ✓ purchasing BC-made, 100%- recycled-fibre paper towels comprising at least 88% post-consumer material for all washrooms and industrial work spaces; purchasing EcoLogo-certified 100%-recycled toilet paper comprising at least 88% post-consumer material for all washrooms;
- ✓ purchasing 100% recycled photocopier and printer paper;
- ✓ using computer power management software; and
- ✓ participate in Earth Hour in March, and leaving off all non-essential lighting all night, not just for one hour.

Executive Sign-off

Name
(print):

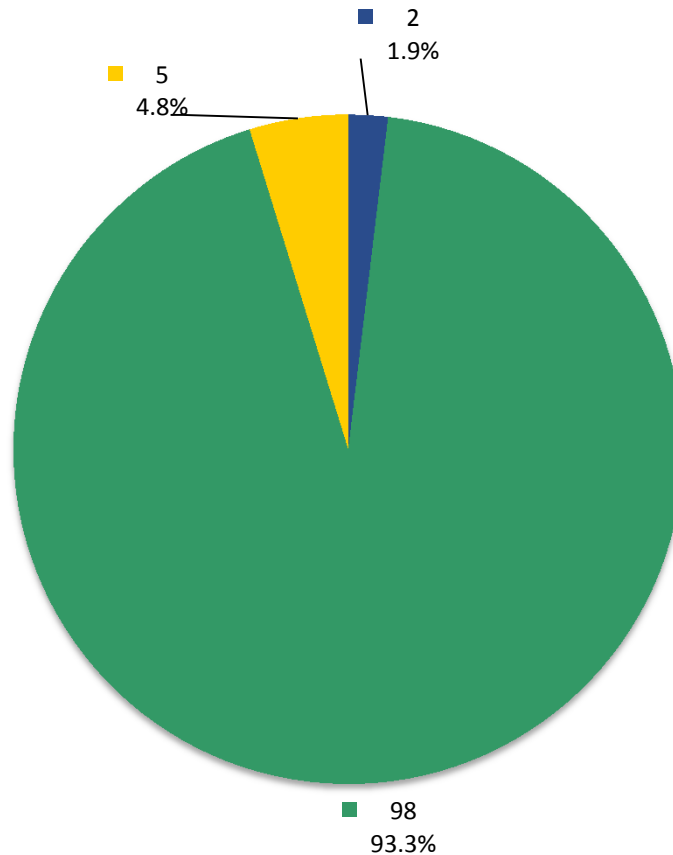
Jack Hohman

Date:

June 5, 2014

X

**Royal BC Museum
Greenhouse Gas Emissions by Source
for the 2013 Calendar Year (tCO₂e*)**



Total Emissions: 105

- 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 2013 (Generated May 21, 2014 2:27 PM)

Total offsets required: **105**. Total offset investment: **\$2,625**. Emissions which do not require offsets: **0** **

*Tonnes of carbon dioxide equivalent (tCO₂e) 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.