



## **Louis Brier Home and Hospital - 2012 Carbon Neutral Action Report**

### **Executive Summary**

The Louis Brier Home and Hospital is a 215 Intermediate and Extended Care facility located at 41<sup>st</sup> and Oak Street in Vancouver. The 9,676 square meter (104,152 square feet) building was constructed in 1963 with an addition added in 1977 and the addition of a second level in 1991. It is the only Jewish long-term care facility west of Winnipeg. Special holiday observances and other special programs and services provide the kind of Home our residents and their families could never find anywhere else in British Columbia.

Our vision is to be leaders in the provision of seniors care to the Jewish elderly of the 21<sup>st</sup> century through developing and achieving standards of excellence in service, clinical practice, education, research, and community outreach.

We are committed to developing the best possible practices and policies for the health and safety of our residents, our staff, their communities and our environmental health and to implement recycling, reduce waste and pollution, implement energy efficiency measures and other sustainable building initiatives and practices, and develop collaborative partnerships with external agencies and service providers to reduce our Greenhouse Gas (GHG) emissions and our Carbon Footprint.

### **2012 Emission & Offsets**

### **Actions Taken to Reduce Greenhouse Gas Emissions in 2012**

1. Enhanced controls for some of the facility's mechanical equipment & lighting so they do not operate 24/7.
2. Implemented a laundry system that uses ozone, instead of hot water, to sanitize linens. We have observed a reduction in the usage of hot water in the laundry by approximately 75%. The ozone system has also resulted in a decrease in drying time.
3. We continue to enhance the initiatives that we have been developing over the past few years such as:
  - a. Energy Management Plan through partnership with a contracted service provider for real time on-line monitoring of our Heating, Ventilation and Air Conditioning (HVAC ) energy utilities consumptions and adjustment through an energy server. Quarterly energy consumption reports are provided, showing monthly savings on costs, GHG emissions and energy use.

- b. Waste management practices including:
  - i. recycling programme for paper, plastics, glass, metal and cardboard
  - ii. monitoring and minimizing wastage
  - iii. encouraging reuse of materials
  - iv. selling or donating obsolete or surplus items
- c. Safe disposal of hazardous materials and waste.
- d. Regular inspection and maintenance of the HVAC system and computer controlled boilers to promote maximum efficiency and control emissions.
- e. Dishwashing and laundry washing machines are regularly serviced and checked for their consumption of cleaning agents, water, and electricity.
- f. Laundry uses phosphate-free chemicals & detergents that use less water.
- g. Dual pane windows are inspected regularly for leaks.
- h. Water pipes and bathroom plumbing are inspected regularly for leaks.

#### **Plans to Continue Reducing Greenhouse Gas Emissions 2013-2015**

We are committed, within our available funding and resources, to:

- Continue to replace equipment with more energy-efficient models
- Continue to promote and implement sustainability initiatives
- Continue to seek ways and opportunities to implement energy conservation measures
- Continue to investigate and introduce other actions that will contribute to our goal of reducing GHG and reduce our Carbon Footprint.



Judith Globerman, PhD  
Interim CEO

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### Actions Towards Carbon Neutrality

The actions listed below contribute to a reduction in greenhouse gas emissions from sources for which public sector organizations are responsible under the carbon neutral government regulation of the Greenhouse Gas Reduction Targets Act.

Action	Status	Steps Taken	Steps Planned	Start Year	End Year
<b>Mobile Fuel Combustion (Fleet and other)</b>					
<b>Behaviour change program</b>					
Introduce anti-idling policy and/or raise anti-idling awareness for fleet drivers (e.g., signs, stickers, messages)	Completed (in Previous Year)				No End Date (Continuous)
<b>Vehicle fuel efficiency</b>					
Perform regular fleet maintenance to improve fuel-efficiency	Ongoing/In Progress	Quarterly maintenance checks	continue quarterly maintenance checks	2008	No End Date (Continuous)
<b>Stationary Fuel Combustion, Electricity</b>					
<b>Behaviour change program</b>					
Help staff reduce personal energy use through ""workstation tune-ups""	Not Yet Evaluated				No End Date (Continuous)
Ask staff to unplug electrical equipment or switch off power bars when not in use	Not Yet Evaluated				No End Date (Continuous)
Ask staff to unplug electrical equipment or switch off power bars when not in use	Not Yet Evaluated				No End Date (Continuous)
Ask staff to close blinds at end of work day to reduce heating/cooling demands	Not Yet Evaluated				No End Date (Continuous)
Encourage use of stairs instead of elevators	Completed (in Previous Year)				No End Date (Continuous)
Provide reminders for turning off lights (e.g., signs, stickers, messages)	Not Yet Evaluated				No End Date (Continuous)
Promote hot water conservation	Not Yet Evaluated				No End Date (Continuous)
<b>IT power management</b>					
Install power management software which shuts down computers outside of regular business hours	In Development	consult with IT	follow up on IT recommendations	2012	2014
Implement server virtualization	Completed (in Previous Year)				No End Date (Continuous)
Apply auto-sleep settings on computer monitors and CPUs	Completed (in Previous Year)				No End Date (Continuous)
Remove stand-alone printers, copiers, and/or fax machines and install multi-function devices as part of a print management strategy	Completed (in Previous Year)				No End Date (Continuous)
Apply auto-sleep settings on printers, fax machines, and/or multi-function devices	Completed (in Previous Year)				No End Date (Continuous)
Replace computers with ENERGY STAR models during regular computer upgrades	Not Yet Evaluated				No End Date (Continuous)
<b>Owned buildings</b>					
Perform energy retrofits on existing, owned buildings	Completed (in Previous Year)				No End Date (Continuous)
Incorporate a refrigerant management strategy into regular building management/maintenance to reduce fugitive emissions	Completed (in Previous Year)				No End Date (Continuous)
<b>Planning/management</b>					
Install a real time metering system (e.g. Pulse, Reliable Controls, Houle Controls)	Completed (in Previous Year)				No End Date (Continuous)

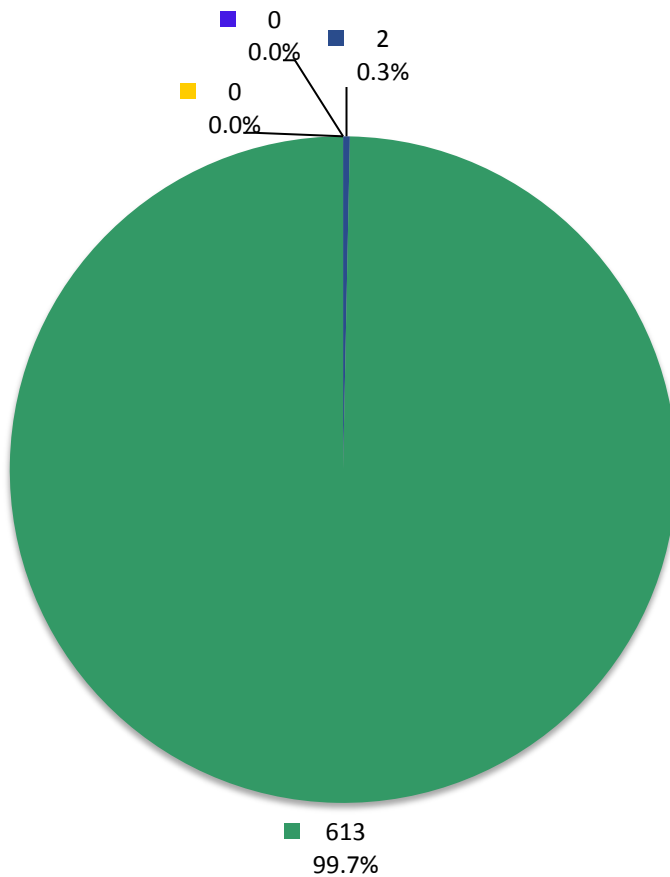
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Action	Status	Steps Taken	Steps Planned	Start Year	End Year
<b>Retrofit details for owned buildings</b>					
Upgrade mechanical systems (heating, cooling, ventilation) during retrofits	Completed (in Previous Year)				No End Date (Continuous)
Upgrade lighting systems during retrofits	Completed (in Previous Year)				No End Date (Continuous)
Upgrade/adjust control systems during retrofits	Completed (in Reporting Year)	modified HVAC control systems		2012	2013
<b>Supplies (Paper)</b>					
<b>Behaviour change program</b>					
Encourage staff to hold paperless meetings or presentations (i.e., no handouts)	Not Yet Evaluated				No End Date (Continuous)
<b>Electronic media in place of paper</b>					
Use electronic document library for filing common documents	Completed (in Previous Year)				No End Date (Continuous)
Switch to an electronic payroll notification system in place of paper pay stubs	In Development	review payroll systems that proved electronic payroll notification	consult with new payroll system provider	2012	2014
<b>Paper Type</b>					
Purchase 30% post-consumer recycled paper	Not Yet Evaluated				No End Date (Continuous)
Purchase 40% post-consumer recycled paper	Not Yet Evaluated				No End Date (Continuous)
Purchase 100% post-consumer recycled paper	Not Yet Evaluated				No End Date (Continuous)
<b>Printer/document settings</b>					
Switch networked printers and photocopiers to automatic double-sided	Not Yet Evaluated				No End Date (Continuous)

**Louis Brier Home & Hospital  
Greenhouse Gas Emissions by Source  
for the 2012 Calendar Year (tCO<sub>2</sub>e\*)**



**Total Emissions: 616**

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

**Offsets Applied to Become Carbon Neutral in 2012 (Generated May 27, 2013 11:04 AM)**

Total offsets required: **616**. Total offset investment: **\$15,400**. 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.