



July 1, 2014

The Senior Management Team of the Hotel Dieu Shaver Health and Rehabilitation Centre is pleased to approve our 2014-2019 Energy Management Plan.

The initiatives that have been accomplished, and those we hope to achieve within the next five (5) years, are consistent with our Mission and Values and with our fervent commitment to provide excellent care for all we serve. We will continue to monitor the plan in accordance with the objectives of both meeting the goals we have identified, as well as identifying new and improved efficiencies that may present themselves over the next five (5) years.

Any questions regarding the Plan may be directed to me, Jane Rufrano, or to Mr. Mike Gualtieri, Director of Environmental Services.

A handwritten signature in blue ink that reads "Jane Rufrano". The signature is fluid and cursive.

Jane Rufrano
CEO/CFO

Hotel Dieu Shaver Health and Rehabilitation Centre

Energy Management Plan

2014-2019

The following Plan has been drafted in accordance with the Green Energy Act, Ontario Regulation 397/11 and is intended to cover the period 2014-2019. The Plan will be revised and updated as circumstances change and as new and different initiatives are identified and adopted.

INTRODUCTION:

The Hotel Dieu Shaver is committed to providing excellent care to the patients and community we serve. Our obvious primary focus is the attainment of excellence in the standard of healthcare services we provide. But our commitment to excellence extends beyond medical services. An important component of striving for excellence in quality of care includes ensuring that every responsible measure is taken to protect and minimize further harm to the environment in which we all live.

The Hospital's investment in this principle has been set in stone. Our *2013-2016 Strategic Plan* is premised on the following directions: improving the patient experience, promoting care coordination and system integration, enhancing and sustaining financial health, and strengthening and enhancing organizational health – under the umbrella theme of “pulling the pieces together”. Very specifically, with respect to the environment, the plan incorporates the following commitments:

1. Within existing resources, choose environmental responsible solutions to help reduce our carbon footprint.
2. Decrease carbon footprint through promotion of “green” strategies.

Our effort to help maximize a healthy environment, for the better wellbeing of our patients and community, has recently been publicly acknowledged on a provincial level. In 2013, Hotel Dieu Shaver qualified as a Bronze hospital in the provincial Green Hospital Scorecard. The Scorecard marked the introduction of a new tool for hospitals to benchmark their environmental performance against our Ontario peers.

An investment in the environment is a part of the living of our *Mission and Values*. As defined and incorporated in our value of Responsible Stewardship, we respond to community needs by balancing human needs with financial resources. Beyond ensuring that we play our role in promoting a healthy community environment, Hotel Dieu Shaver's energy management program will reduce the Hospital's operating costs – thereby better enabling us to provide excellent healthcare services to all who come through our doors.

ENERGY EFFICIENT PROJECTS COMPLETED IN THE PAST 5 YEARS

- Replacement of two outdated Condensing Units with smaller high efficient units (2013).
- Replacement of two hot water boiler/heaters from low efficiency (60%) to high efficiency (90%) boilers (2013).
- Replacement of window coverings in all patient rooms with vinyl roller blinds to act as sunblock, allowing a reduction in air conditioning temperatures and associated reduction in energy costs (2013).
- Through many areas of the Hospital, replacement of approximately 70% of older windows with higher efficiency products, containing thermal pane tint and reflected glass (2010-2014).
- Enclosure of outdoor courtyard space (5700 sq. ft.) that is located in the centre of the hospital building. Enclosure of the space has, and will continue to help, with the reduction of energy costs as heating needs will not be as significant in all areas surrounding the previously outdoor courtyard (2012).
- Replacement of all incandescent bulb Exit Signs with phosphorescent signs, thereby negating the use of energy (2012).
- Replacement of roofs on all buildings, mitigating the cost of heating and cooling of the structures (2010).
- Replacement of several exterior entrance doors with thermal pane glass doors (2011-2014).

CURRENT AND ONGOING PROCEDURES AIMED AT THE REDUCTION OF OUR ENERGY FOOTPRINT AND CONSUMPTION:

- Building Automation Systems – on weekends and holidays, when offices and other non-clinical areas are closed, the Hospital reduces the air conditioning in the summer and the heating in the winter. Throughout the year, overhead lighting is dimmed throughout the corridors of the entire facility between the hours of 9:00 p.m. through 7:00 a.m. Lastly, a system called “Night Watchman” has been installed through Information Systems – resulting in computer monitors in office areas automatically shutting off in the early evening and re-starting in the morning. All of the above initiatives have and will continue to reduce the Hospital’s energy usage and costs.
- Lighting – the Hospital has begun the process of replacing T8 fluorescent lighting with T12 lighting. There are in excess of 500 fixtures that will need to be replaced over the next few years. This is a time consuming and costly endeavour. As a result, the Hospital is currently working with one of our utility companies in an effort to identify all possible

rebate opportunities, hoping to result in up to a 50% reduction in implementation costs. Additionally, on completion of the entire retrofit, it is projected that the Hospital may experience up to an 11% reduction in our overall electrical energy costs.

In conjunction with our utility provider, the Hospital has also purchased and is in the process of installing LED lights to replace the current incandescent lighting.

- V.F.A. Survey – As outlined through the Hospital’s V.F.A. Survey, the Hospital continues to address and replace outdated systems annually as funding becomes available.

FUTURE GOALS: 5 YEAR PLAN

Effective July 2014, the Hospital has identified the following goals and objectives for the next five year period. The public focus on investing in our environment results in new advancements on a regular basis. As developments occur, and new initiatives or opportunities unfold, the Hospital plan will be updated to reflect most current status.

- Replacement of older and less efficient eight stage boiler with new high efficiency boiler(s).
- Replacement of condensing units that have reached the end of useful life according to BOMA (Building Owners and Managers Association) standards identified in the VFA Report.
- Completion of current project directed at replacing all incandescent light bulbs with LED lighting.
- Completion of current project to replace all T12 fluorescent lights with T8 lights.
- Installation of lighting motion sensors in all public and staff washrooms.
- Completion of a steam and condensate system survey in an effort to identify and address any steam trap repairs and steam operating pressure reductions.
- Replacement of all plumbing fixtures with high efficiency low flow devices.
- Building roof replacement to be completed as identified in the VFA report.
- Continued liaison and communication with utility companies to:
 - (i) identify ways to reduce energy use and thereby, reduce energy costs
 - (ii) ensure that, as equipment is purchased replaced, maximum opportunity is taken to access any rebate initiatives available