Welcome to the Green Hospital Scorecard Top Performers Webinar

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Welcome to the Green Hospital Scorecard Top Performers Webinar

Presenter: Samantha Putoš
Sustainable Health Care Programs
Canadian Coalition for Green Health Care

April 25, 2017
Agenda

- Introduction and Program overview
  - Welcome from OHA
  - Preview of aggregate stats to be released in sector reports
- Top Performers in Energy, Energy Award Winner
  - Presentation by Energy Award Winner, Q&A
- Top Performers in Water, Water Award Winner
- Top Performers in Waste, Waste Award Winner
  - Presentation by Waste Award Winner, Q&A
- Overall Top Scorers, Green Hospital of the Year Award Winner
  - Presentation by Green Hospital of the Year, Q&A
- Closing and Q&A
Webinar Structure

- Participants will be muted for the presentations
- Please use the chat feature to queue questions during the presentation
- Presenters will answer a few questions at the end of each presentation
- Q&A at the very end if time
2016 Transition from OHA
Changes to this year’s program

- New survey software
- New automation process
- Different project timeline
- Unique site submissions
- Green Hospital Scorecard Lite

THANK YOU!
2016 GHS Project Overview

• 91 unique hospital site submissions from 55 organizations

• Submissions from New Brunswick, Quebec, Newfoundland, North Carolina.
2016 GHS Participants by Peer Group
2016 GHS Participants by number of beds

- 1-200 beds: 47%
- 201-300 beds: 11%
- 301-400 beds: 10%
- 401+ beds: 22%
- 0 beds: 10%
GHS Energy, Water and Waste Stats

Overall average \textbf{EUI} of participants: 2.58 GJ/m²

Overall average \textbf{water use intensity} of participants:

\textbf{1.8 m³/m²}
2016 GHS Participant Energy Use Intensity, EUI, GJ/m², by Peer Group
Waste

Overall average waste intensity of participants 3.23 tonnes/bed

Collectively, participants diverted more than 4,615 tonnes of blue bin recycling, 4,232 tonnes of organic waste, 4,322 tonnes of cardboard, 5,601 tonnes of shredded paper, 246 tonnes of electronics, 30 tonnes of light bulbs/ballasts, tubes, 419 tonnes of scrap metal, 133 tonnes of scrap wood, 43 tonnes of toner, 59 tonnes of batteries
8 hospital participants are diverting kitchen grease waste. They collectively diverted 74.79 tonnes of kitchen grease.
Reusable sharps containers

11 participants have a **reusable sharps containers** program, diverting **127.83 tonnes** of plastic from landfills.
Corporate Commitment

We asked: Does your organization's corporate commitment to green initiatives include the following:

- ✔ A corporately recognized environmental mandate or commitment
- ✔ An executive champion accountable for the overall hospital environmental strategy
- ✔ A dedicated FTE
- ✔ A Green Team

Corporate Commitment
More information to come!

- GHS Public Sector reports to be published end of April 2017
- Aggregate participant statistics
- Data comparison over program years
- Examples of environmental initiatives across Ontario
- Compare your facility to others in your peer group
- Available at http://greenhealthcare.ca/ghs will be mentioned in The Green Digest
  - http://greenhealthcare.ca/digest
2016 Top Performance Awards

Energy, Water, Waste, and Green Hospital of the Year
Top Five Performers in Energy Category

- Energy consumption scaled for building size and number of beds
- Greenhouse gas emissions based on energy type use
- Energy conservation policy, targets, and action plans

Hamilton Health Sciences - Hamilton General Hospital
Michael Garron Hospital
Niagara Health - Port Colborne Site
South Muskoka Memorial Hospital
The Hospital for Sick Children (SickKids)
Top Performer - Energy

Congratulations...

niagarahealth
Extraordinary Caring. Every Person. Every Time.
Port Colborne

• ENERGY •

WINNER

GREEN HEALTH CARE AWARDS 2016
2016 GREEN HOSPITAL SCORECARD
TOP PERFORMER - ENERGY

AWARDED TO

Niagara Health – Port Colborne Site

For achieving the highest score in the Energy category in the 2016 Green Hospital Scorecard Program.

Awarded this 25th day of April 2017.

Linda Varangu, Executive Director
Niagara Health - Port Colborne Site

- Has an energy use intensity 40% of the peer group average
- Has decreased their energy use and greenhouse gas emissions by 14% and 15% respectively from 2014-2015
- Other organization-wide energy initiatives

Peer Group: Community Location: Port Colborne, ON
Niagara Health (NH) - Port Colborne Site

- Community Hospital in a city of ~18,000 on the shores of Lake Erie
- Built in 1951
- 130,000 sq. ft.
- Services offered include:
  - Urgent Care
  - Mental Health and Addictions Services
  - Complex Care
  - X-Ray and Ultrasound
  - Ontario Breast Screening Program satellite clinic
  - Scheduled Ambulatory & Outpatient Clinics (includes physiotherapy, Hepatitis C and other services)
Information on Energy Conservation at Port Colborne

- NH completed a significant energy savings retrofit that was completed in 2013. Among other initiatives the major project was replacing steam boilers with smaller, more efficient hot water units.

- All 24/7 lighting has been retrofitted to LED and all bulbs going forward will be LED.
Other initiatives at our facility

- We are developing our “Green Team” as well as improving our policies and processes.
- When planning any projects or upgrades, energy efficiency and sustainability have become an important part of the discussions.
- Port Colborne also underwent an elevator modernization in 2015/16, upgrading to electronic controls replacing the original 1950’s system.
Other initiatives at our facility

- We are also partnered with the Niagara Sustainability Initiative (NSI). As a member of their “Carbon Project”, we have committed to reduce our carbon footprint and become more sustainable, environmentally and economically.

- We closely track and monitor our energy use.
Other initiatives at our facility

- With the help of NSI and Niagara College, we also retain an intern in their final term of the “Environmental Management and Assessment” to give them experience to help us grow our sustainability initiatives.

- Each year, they do an “information booth”. This is a sample of this year’s student contribution.
Questions?
Top Five Performers in Water Category

- Water consumption scaled for building size and number of beds
- Water conservation policy, targets, and action plans

- Geraldton District Hospital
- Holland Bloorview Kids Rehabilitation Hospital
- Northumberland Hills Hospital
- Religious Hospitallers of St. Joseph of the Hotel Dieu of St. Catharines
- St. Michael’s Hospital
Top Performer - Water

Congratulations...
2016 GREEN HOSPITAL SCORECARD
TOP PERFORMER - WATER

AWARDED TO

Geraldton District Hospital

For achieving the highest score in the Water category in the 2016 Green Hospital Scorecard Program.

Awarded this 25th day of April 2017.

Linda Varangu, Executive Director

The Canadian Coalition for Green Health Care
Coalition canadienne pour un système de santé écologique
Geraldton District Hospital

- Fully accredited health care organization servicing residents of Greenstone (Beardmore, Caramat, Geraldton, Longlac, Nakina) and surrounding First Nations communities.

- Replaced steam boilers with hot water boilers in 2008: no continuous blow down and water loss as with steam boilers where make-up water needs are continuous.

- No cooling towers: substantially lower water usage with evaporation and make-up water.

- Waterless medical gas system
Top Five Performers in Waste Category

- Waste production scaled for building size and number of beds
- Recycling rate and per cent waste diversion
- Waste management policy, targets, and action plans

- Northumberland Hills Hospital
- South Muskoka Memorial Hospital
- The Hospital for Sick Children (SickKids)
- Trillium Health Partners - Queensway Health Centre
- Woodstock General Hospital
Top Performer - Waste

Congratulations...

South Muskoka Memorial Hospital

GREEN HEALTH CARE AWARDS 2016
2016 GREEN HOSPITAL SCORECARD
TOP PERFORMER - WASTE

AWARDED TO

South Muskoka Memorial Hospital

For achieving the highest score in the Waste category in the 2016 Green Hospital Scorecard Program.

Awarded this 25th day of April 2017.

Linda Varangu, Executive Director

The Canadian Coalition for Green Health Care
Coalition canadienne pour un système de santé écologique

GREEN HEALTH CARE AWARDS 2016
South Muskoka Memorial Hospital

- Diverting several streams: blue bin, cardboard, shredded paper, e-waste, light bulbs, pallets, toner, batteries, cytotoxic waste, anatomical waste, pharmaceutical waste, hazardous chemical waste
- Has a recycling rate of 41%, well above the peer group average of 26%
- Has policies, clearly defined targets, and action plans in waste management
- Has a Green Team

Peer Group: Community
Location: Bracebridge, ON
Muskoka Algonquin Healthcare

Presenter: Robert Alldred-Hughes, Chief Executive Human Resources and Support Services

“The Green Hospital Scorecard has helped Muskoka Algonquin Healthcare provide a focused approach to greening health care in Muskoka. We are proud to continue to do our part in reducing energy consumption and diverting unnecessary waste to our landfill and celebrating our achievements through this program.”

Natalie Bubela, CEO
Muskoka Algonquin Healthcare
South Muskoka Memorial Hospital

- Muskoka Algonquin Healthcare’s South Muskoka Memorial Hospital is one of two hospital sites with 43 acute care beds and 16 complex continuing care beds. It also provides a range of outpatient and diagnostic services, emergency and surgical services to support the broader community.
Improvement is a journey, not a destination.

- Embedded Environmental responsibility into Strategic Plan 2012
- Conducted an audit in partnership with an external contractor to determine what the greatest opportunity for waste diversion from landfills would be
- Developed a project charter with the first step being the visibility of waste streams through utilization of clear bags
- Cultivated frontline “Green Champions” to provide one on one education and coaching about waste diversion
- When faced with a plateau 2 years following initial efforts; increased visible commitment of Leadership to the project
- Incorporated a clause in the RFP process stating that contractors are responsible for waste generated and encouragement of landfill diversion.
- Initially focused on Surgical Services, the highest user of single-use products; many items are now recycled.
- Influenced the organizational culture by addressing the barriers to people recycling; visual cues with convenient recycling stations
Other initiatives at facility

- Cultivation of Community Garden Partnership similar to initiative at MAHC’s Huntsville District Memorial Hospital site
- Earth Day Grounds Clean Up
- Further development of frontline “Green Champions” and further waste diversion education and coaching in individual areas
2016 Overall Top Scorers

Congratulations to the 2016 Gold Seal Winners!

St. Michael’s

Inspired Care. Inspiring Science.

Michael Garron Hospital

A Proud Member of

Toronto East Health Network

Formerly the Toronto East General Hospital

Non-Hospital Category

Trillium Health Partners

Clinical Administration Building
Green Hospital of the Year

Congratulations...

St. Michael's

Inspired Care.
Inspiring Science.

2016
2016 GREEN HOSPITAL SCORECARD
GREEN HOSPITAL OF THE YEAR

AWARDED TO

St. Michael’s Hospital

For achieving the highest overall score in the 2016 Green Hospital Scorecard Program.

Awarded this 25th day of April 2017.

Linda Varangu, Executive Director

The Canadian Coalition for Green Health Care
Coalition canadienne pour un système de santé écologique

2016
St Michael’s

- Has a Water Management Group.
- Has a water use intensity 25% of its peer group average
- Recycles 100% of batteries
- Recycles 100% of light bulbs using a bulb eater
- Recycles 60% of ink cartridges and scrap metal.
- Policy, clearly defined targets, and action plans in environmentally preferable purchasing, toxins management, and sustainable construction
- Launched a new business system and has transformed the way they order supplies, paperless purchase orders as well as paperless pay-stubs.

Peer Group: Academic
Location: Toronto, ON
St. Michael’s Hospital

- IT Involvement
  - Default double sided printing settings
  - Electronic fax receipt and storage
- Provides staff engagement and outreach programming in energy conservation, water conservation, waste management, and Green events such as Earth Day
- Has a corporately recognized environmental mandate or commitment, an executive champion accountable for the overall hospital environmental strategy, a dedicated FTE, and a Green Team
- Corporate Support for Capital Projects to drive Energy Efficiency and Savings
St. Michael’s Hospital

How-Yune Chong
Director, Engineering and Plant Services
St. Michael’s Hospital

- Founded 1892
- Serves downtown Toronto
- 463 beds
- 1.2m sq.ft
- 4 wings (1910 - 2002)
- District heating (steam)

Energy intensity (2015)
- 1.9 GJ/sq.m
- ~20% less than peers

Level 1 trauma centre specializing in:
- Care for the critically ill
- Care for disadvantaged populations
- Care for patients with specialized diseases
Strategic Capital Investment
Energy Performance Project

- Energy performance contract (2004-08)
- Centralize plant
- $4M capital investment

- Annual savings:
  - 123,030 GJ (20%)
  - 7,500 tonnes GHG
  - $1.3M
Infrastructure Renewal

- Challenges:
  - Resources (funding, staff)
  - Competing priorities

- Define need and consequences

- Understand and leverage existing programs
  - Different funding sources
  - LDC/Govt. incentives
Green the Supply Chain

- Procurement policy
  - Utilities included in total cost of ownership

- Integrated recycling program
  - Mixed recycling bins
  - Batteries, e-waste, pallets, etc.
Other initiatives at facility

- Paper conservation
  - Double-sided printing
  - Fax e-Receiving
- Staff engagement
  - 20-minute community clean up
  - Bike cage
  - Transit pass program
What’s next: St. Michael’s 3.0
Thank You!

How-Yune Chong
Director, Engineering and Plant Services
chongh@smh.ca
Will collect data for 2016 calendar year

Improvements to the program

- Dropdown menu for selecting hospital site
- CCGHC now has access to most old scorecards so can send these directly
- Working on autofill options for returning participants
- More options to be inclusive of LTC facilities and smaller facilities

Suggestions and comments always welcome as we continue to improve the program! samantha@greenhealthcare.ca
Thank you!

- The Coalition will also be hosting an Energy-Focus webinar on April 27th at 11 AM - 12 PM EDT (same call-in details as today)

- Sector reports scheduled to come out at the end of April

  - Available for download at http://greenhealthcare.ca/ghs

  - We will send an email blast and announce it in the Digest

  - http://greenhealthcare.ca/digest to subscribe