Review of the 7th annual Green Hospital Scorecard Survey

Call in via internet or phone for audio

<table>
<thead>
<tr>
<th>Region</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brantford</td>
<td>(226) 401-9363</td>
</tr>
<tr>
<td>Charlottetown</td>
<td>(902) 200-0149</td>
</tr>
<tr>
<td>Edmonton</td>
<td>(587) 415-0177</td>
</tr>
<tr>
<td>Montreal</td>
<td>(514) 800-1233</td>
</tr>
<tr>
<td>Ottawa</td>
<td>(613) 699-9318</td>
</tr>
<tr>
<td>Quebec</td>
<td>(581) 705-4251</td>
</tr>
<tr>
<td>Saskatoon</td>
<td>(306) 400-1019</td>
</tr>
<tr>
<td>Toronto</td>
<td>(647) 977-2648</td>
</tr>
<tr>
<td>Vancouver</td>
<td>(778) 654-8779</td>
</tr>
<tr>
<td>Winnipeg</td>
<td>(204) 500-0399</td>
</tr>
</tbody>
</table>

Conference ID: 963-150-898#
Mute/Unmute Phone: press *6
Welcome to the Review of the Green Hospital Scorecard Survey

February 20, 2020
Presenter: Dan Ritchie, Green Hospital Scorecard Manager
Canadian Coalition for Green Health Care
Agenda

Survey Review
1). General Information
   ▫ General Hospital Information
   ▫ Navigating, saving, and sharing the survey
2) Energy
3) Water
4) Waste
5) Pollution Prevention
6) Corporate Leadership, Planning, and Management
7) Transportation
8) Food
9) Climate Change
10) Anesthetic Gas
11) Energy Behaviour
   ▪ Discussion, questions, and answers
Participants will be muted until the end of the session

Questions: Please type questions into the chat feature of join.me at any time.

- Answers to various questions can be found at [https://greenhealthcare.ca/ghs-faq/](https://greenhealthcare.ca/ghs-faq/)

Presentation will be recorded, sent out, and posted at [http://greenhealthcare.ca/ghs](http://greenhealthcare.ca/ghs)

Survey link:

Can be emailed to your site by contacting [dan@greenhealthcare.ca](mailto:dan@greenhealthcare.ca)
Introduction:
Green Hospital Scorecard
Participating Hospitals receive:


- Be recognized as a **Bronze, Silver, or Gold Leader** in green health care

- Qualify for the annual **Green Health Care Awards** in Energy, Water, Waste Energy Behaviour and Green Hospitals of the Year.
Data Confidentiality

• Coalition has managed the GHS since 2016
• The Coalition respects data confidentiality
  • Information from the GHS is stored on a secure platform.
  • Data de-identified for reports
Green Hospital Scorecard 2019
Timeline

**Launch:** December, 2019

Survey Close Date: March 30th, 2020

Receipt of Scorecards: Spring 2020

Green Health Care Awards

Survey: Collecting data from 2018 (Jan-Dec)
Green Health Care Awards

Many thanks to our Energy and Energy Behaviour Award sponsor: 

Save on Energy
What’s New This Year?

- **New section**: Anesthetic Gas

- Updated Energy, and Energy Behaviour questions
- Addition / Revision of various qualitative questions
  Example:
  “Did your facility implement new technologies or services for energy efficiency and/or conservation you are proud of in the survey year (2018)?”
Review:
Green Hospital Scorecard Survey
Green Hospital Scorecard Survey Sections

Navigation

- Complete each section, in order to navigate freely between sections
  - Navigate between sections by clicking the numbers at the top
  - Answers will not be lost if you navigate to a different section
- On the bottom of the survey, you can click Back or Next to navigate through the survey and return to sections to edit responses
- You must save before exiting the browser window
Can I start the survey and come back to it? Yes!

- Click SAVE, you will be presented with this window.
Sharing the Survey

- Forward your **form link** to anyone you wish to have access to the survey
- Note: they will be able to see and edit any responses that have been entered
- When they’re finished, have them click SAVE
  - A prompt to email the link will show up once again
  - Your email link will still work and show the updated information.
Permission to send previous data

Hospital Site Name *

Include Organization Name and Site Name, e.g. University Health Network - Toronto General Hospital

If your facility does not have any inpatient beds please identify the building type:
1. General Information

**Conditioned Floor Area**

Conditioned floor area is restricted to air conditioned areas. This excludes underground parking and other large, maintained areas that are not common to all hospitals. Area must include all medical buildings. You may elect to include non-medical buildings if the energy, waste, and water data for these buildings can be reported consistently throughout the survey.

- **Building 1**
  - **Conditioned Floor Area**
  - **Unit**
  - **Building Name**
  - **Building Type**
  - **Building Address**
    - **Address Line 1**
    - **Address Line 2**
    - **City**
    - **State / Province / Region**
    - **Postal / Zip Code**

**Additional Information**

- **Conditioned Floor Area** – numeric value of the floor size of air conditioned (heated and cooled) areas. Include all medical buildings.
- **Unit** – select “Square Feet” or “Square Metre”
- **Building Type** – select “Medical”; “Administrative”; “Mixed”; “Research” or “Other”
1. General Information

**Total Beds**

- [Blank field]

**Total Inpatient Days in 2018**

- [Blank field]

An inpatient day is the actual number of days that beds are occupied by patients. "Total Inpatient Days" includes inpatient days in the following types of beds: acute, chronic (complex continuing care), general rehab, special rehab and mental health. This information may be obtained through hospitals' health records, decision support or finance departments. If there are issues obtaining data on inpatient days for your site please contact Dan at dan@greenhealthcare.ca.

**Total Outpatient Visits in 2018**

- [Blank field]

An outpatient visit can include any face to face visits: Ambulatory (ER) visits, day surgeries or surgical cases. This information may be obtained through hospitals' health records, decision support or finance departments. If there are issues obtaining data on outpatient days for your site please contact Dan at dan@greenhealthcare.ca.
1. General Information
• **Academic Hospitals** – All acute general and pediatric hospitals that are members of the Council of Academic Hospitals of Ontario (CAHO).

• **Community Hospitals** – Acute care hospitals that do not fit the definition of a small or academic (teaching) hospital.

• **Non-Acute Hospitals** – Complex continuing care (CCC), rehabilitation, and mental health hospitals. Have stand-alone CCC or rehabilitation beds. They may or may not be members of CAHO.

• **Small Hospitals** – Have less than 3,500 weighted cases, a referral population of less than 20,000, and are the only hospital in the community.

https://greenhealthcare.ca/ghs-faq/
Questions on the survey? Contact dan@greenhealthcare.ca. You can also check out our FAQs.

Next Section - Energy
Review: Energy
2. Energy

- Total Energy & Total GHG Emissions
- Energy Use
- Energy Use Intensity
2. Energy

Energy

The Energy section of the survey collects information on the hospital site's energy sources and use in 2018.

Please ensure that the information provided corresponds with the building data provided in the General Information section.

Fuel Types:

- District Heat: Heat purchased and consumed from a district energy company. This includes steam.
- District Cooling: Chilled water purchased and consumed from a district energy company. This includes deep water cooling.
- Exported Energy: Energy generated on site but not used on site.

What not to report:

- Vehicle fuel use
- Diesel use for backup power generation (unless backup power generation was needed for an unusually long period of time)
- Energy use of buildings that are not represented by the conditioned floor area reported in the survey
Where applicable, please provide your hospital site's 2018 energy consumption (in units billed) for the following:

<table>
<thead>
<tr>
<th>Energy Type</th>
<th>Unit - Electricity *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electricity</td>
<td>kWh</td>
</tr>
<tr>
<td>Natural Gas</td>
<td></td>
</tr>
<tr>
<td>Propane</td>
<td></td>
</tr>
<tr>
<td>Fuel Oil</td>
<td></td>
</tr>
<tr>
<td>District Heat</td>
<td></td>
</tr>
<tr>
<td>District Cooling</td>
<td></td>
</tr>
<tr>
<td>Exported Energy</td>
<td></td>
</tr>
</tbody>
</table>

*Unit options: kWh, m3, GJ, l, BTU, MMBTU, litres, ton/hr, Other (Please Specify)*
2. Energy

If you use a form of district energy such as imported steam or deep water cooling, please describe the source and type of energy.

Please describe and include data for any other applicable energy sources used.

Questions? Contact dan@greenhealthcare.ca. You can also check out our FAQs.
Does your facility have a purchasing policy which stipulates that ENERGY STAR® products should be considered when purchasing when available?

- Yes, provided policy details last year
- Yes, have policies to share
- No
- Don’t know

Which of the following Natural Resource Canada energy tools/programs has your facility participated in or utilized?

<table>
<thead>
<tr>
<th>Tool</th>
<th>Yes</th>
<th>No</th>
<th>Do not know</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portfolio Manager</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RETSCreen Expert Energy Management Software</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Simple Savings Calculator</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
2. Energy

Renewable Energy Initiatives

<table>
<thead>
<tr>
<th>Already Implemented?</th>
<th>Considering for the Future?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biofuels (eg. ethanol)</td>
<td>Biofuels (eg. ethanol)</td>
</tr>
<tr>
<td>Biogas energy</td>
<td>Biogas energy</td>
</tr>
<tr>
<td>Biomass (eg. wood, algae)</td>
<td>Biomass (eg. wood, algae)</td>
</tr>
<tr>
<td>Deep lake cooling</td>
<td>Deep lake cooling</td>
</tr>
<tr>
<td>Geothermal</td>
<td>Geothermal</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>Hydrogen</td>
</tr>
<tr>
<td>Micro hydro systems</td>
<td>Micro hydro systems</td>
</tr>
<tr>
<td>Solar hot water</td>
<td>Solar hot water</td>
</tr>
<tr>
<td>Solar - photovoltaic</td>
<td>Solar - photovoltaic</td>
</tr>
<tr>
<td>Tidal energy</td>
<td>Tidal energy</td>
</tr>
<tr>
<td>Wave energy</td>
<td>Wave energy</td>
</tr>
<tr>
<td>Other</td>
<td>Other</td>
</tr>
</tbody>
</table>
Distributed generation (DG), also called on-site generation or decentralized generation, is the term used for electricity generated from sources that are near the point of consumption, as opposed to centralized generation sources such as large utility-owned power plants. Distributed generation systems include on-site renewable energy, combined heat and power (CHP), and small natural gas-fuelled generators which are typically smaller in scale than the traditional generation facilities. These DG systems reduce the amount of energy lost in transmitting electricity because the electricity is generated near the point of consumption, and also help prepare the facility to better manage power outages which are occurring more frequently due to our changing climate.

Another term used is Distributed Electricity Resources (DERs), which are electricity-producing resources (like renewables and CHP) but also include controllable loads that are connected to a local distribution system. Controllable loads include HVAC systems, electric water heaters and other appliances, and electric vehicles for which the facility manager can control electricity usage to avoid peak energy consumption times. Energy storage is also an important part of these systems to facilitate the time of energy use. For additional information on DERs click HERE.
2. Energy

Has your facility discussed Distributed Generation (DG) or Distributed Electricity Resources (DERs) as part of your energy management strategy?

Renewable energy (including solar panels, wind energy etc.)
- Yes, it is part of our energy management strategy
- Yes, it is in discussion
- No, not discussed, but may be of interest
- No, not interested at this time

Small natural gas-fuelled generators
- Yes, it is part of our energy management strategy
- Yes, it is in discussion
- No, not discussed, but may be of interest
- No, not interested at this time

Controllable loads: electric water heaters and/or other electric appliances
- Yes, it is part of our energy management strategy
- Yes, it is in discussion
- No, not discussed, but may be of interest
- No, not interested at this time

Combined heat and power plants
- Yes, it is part of our energy management strategy
- Yes, it is in discussion
- No, not discussed, but may be of interest
- No, not interested at this time

Controllable loads: HVAC systems
- Yes, it is part of our energy management strategy
- Yes, it is in discussion
- No, not discussed, but may be of interest
- No, not interested at this time

Controllable loads: electric vehicles
- Yes, it is part of our energy management strategy
- Yes, it is in discussion
- No, not discussed, but may be of interest
- No, not interested at this time

Controllable loads: electricity storage
- Yes, it is part of our energy management strategy
- Yes, it is in discussion
- No, not discussed, but may be of interest
- No, not interested at this time
Did your facility receive any financial assistance from the following sources to assist in implementing energy efficiency initiatives at your facility in the survey year (2018)? *

- Yes
- No

Does your facility use an internal Green Revolving Fund to earmark funding for new energy projects?

- Yes
- No
Review: Water
3. Water

Water Use

Water Use Intensity
3. Water

Water

Please ensure that the water consumption listed corresponds with the building data provided in the General Information section.

Total Water Consumption in 2018

Please input the total annual water consumption for your hospital site.

Is grounds maintenance (i.e. any water use outside of the conditioned floor area) a significant component of your water bill?

- Yes
- No

Did your facility implement new technologies or services for energy efficiency and/or conservation you are proud of in the survey year (2018)?

- No
- Yes

http://greenhealthcare.ca/ghg-water-toolkit-wp/
Review: Waste
4. Waste

- Waste Generation
- Waste Intensity
- Waste Distribution
- Recycling Rate
Waste

This section of the survey collects information on how conventional non-hazardous waste, biomedical waste and recyclable materials are managed through disposal, recycling, green bin, reuse or an alternative form of diversion like on-site composting.

Please ensure that the information provided correlates to the building data, number of beds, inpatient days and number of outpatient visits provided. For example, if you reported beds from one of your buildings, ensure that the waste data is from that same building only.

What not to report:

- Your data should represent the weight of the waste "as disposed", not the waste composition.
- Recyclable materials that were present in the general waste stream should be accounted under "General, non-hazardous waste".
- Your data should not include waste from buildings that are not represented by the number of beds, inpatient days, outpatients, conditioned floor area, and other consumption/generation data provided in this survey.

How can I to obtain tonnage information for recycled items? Please review the FAQs.

What does Biomedical Waste include? Please review the FAQs.
What Not To Report

- Your data should represent the weight of the waste "as disposed", not the waste composition.
- Recyclable materials that were present in the general waste stream should be accounted under "General, non-hazardous waste".
- Your data should not include waste from buildings that are not represented by the number of beds, inpatient days, outpatients, conditioned floor area, and other consumption/generation data provided in this survey.

How can I to obtain tonnage information for recycled items? Please review the FAQs.

What does Biomedical Waste include? Please review the FAQs.
### 4. Waste

<table>
<thead>
<tr>
<th>General, non-hazardous waste</th>
<th>Unit - General, non-hazardous waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source of Data - General, non-hazardous waste</td>
<td></td>
</tr>
<tr>
<td>Hauler Records</td>
<td>Estimate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Biomedical waste</th>
<th>Unit - Biomedical waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source of Data - Biomedical waste</td>
<td></td>
</tr>
<tr>
<td>Hauler Records</td>
<td>Estimate</td>
</tr>
</tbody>
</table>
What does General, non-hazardous waste include?

- Landfilled
- Recyclable materials that were present in the general waste stream should be accounted for under “General, non-hazardous waste”
How can I obtain tonnage information for recycled items?

- Reports from waste hauler/waste service provider
- Waste audits
- Estimate waste weight with your waste hauler/waste service provider

- Size and average weight of the **carts/bins:**
  - If price per bin: ask number of carts/bins per week, then multiply to reflect annual totals
  - If paying a flat rate: ask driver for the average number of full bins of each material emptied per week, then multiply to reflect annual totals

- **Cardboard**
  - Front-end or rear-load cardboard bins: ask for average weight per lift, multiply how many lifts per year
  - Cardboard dedicated compactor: hauler has weights each time compactor is emptied
## 4. Waste - Diversion

<table>
<thead>
<tr>
<th>Material Streams</th>
<th>Quantity captured</th>
<th>Quantity not captured</th>
<th>Option to divert not available</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue Bin</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Green Bin</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Cardboard</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Shredded Paper</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Electronics / E-Waste</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Light Bulbs / Tubes / Ballasts</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Scrap Metal</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Scrap Wood</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Pallets</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Toner</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Batteries</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>
# 4. Waste - Diversion

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity captured</th>
<th>Quantity not captured</th>
<th>Option to divert not available</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue Bin</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Green Bin</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cardboard</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shredded Paper</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electronics / E-Waste</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Light Bulbs / Tubes / Ballasts</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scrap Metal</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scrap Wood</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pallets</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toner</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Batteries</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit - Blue Bin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue Bin</td>
<td></td>
</tr>
<tr>
<td>Green Bin</td>
<td></td>
</tr>
<tr>
<td>Cardboard</td>
<td></td>
</tr>
<tr>
<td>Shredded Paper</td>
<td></td>
</tr>
<tr>
<td>Electronics / E-Waste</td>
<td></td>
</tr>
<tr>
<td>Light Bulbs / Tubes / Ballasts</td>
<td></td>
</tr>
<tr>
<td>Scrap Metal</td>
<td></td>
</tr>
<tr>
<td>Scrap Wood</td>
<td></td>
</tr>
<tr>
<td>Pallets</td>
<td></td>
</tr>
<tr>
<td>Toner</td>
<td></td>
</tr>
<tr>
<td>Batteries</td>
<td></td>
</tr>
</tbody>
</table>
Where applicable, please indicate which material streams your hospital site diverted in 2018 from the general waste stream.

- **Blue Bin**: Includes plastic, paper, glass or metal/can accepted in your blue bin. If you have diverted plastics, paper, glass or metal outside your blue bin, please use the Other Material Streams section to provide information on the material, its quantity, unit and source of data.

- **Green Bin**: Includes kitchen, food waste and organics accepted in your green bin. If you compost (or divert from general, non-hazardous waste) food, kitchen waste or other organic materials, please use the Other Material Streams section to provide information on the material, its quantity, unit, source of data.

- If the material is diverted and quantity is captured, please select "Quantity captured" and enter the quantity below.

- If the material is diverted but quantity is not captured, please select "Quantity not captured".

- If the option to divert a particular waste stream is not available, please check "Option to divert not available".

---

**Blue Bin**
- Plastic
- Paper
- Glass
- Metal/Can

**Green Bin**
- Kitchen waste
- Food waste
- Organics
4. Waste - Other Diversion Streams

Other Material Streams

Please add any other diverted material streams here.

Stream 1

Name/Description

Quantity 

Unit

Add Stream

If applicable, please list other disposal methods by material not included in waste destined for landfill, recycling, reuse or composting.

Examples: agricultural use (land application) or incineration.
Does your facility have a food waste management program? *

Yes  No

*If yes, please use the questions below to identify the food waste management options currently used by your facility, identifying where the food originates in the facility.

Below, please check off the waste management options for each site of origin for food waste in your facility.

**Hospital food prep area**
- [ ] Onsite dehydration
- [ ] Food waste to farms
- [ ] Other
- [ ] Onsite composting
- [ ] Disposed to landfill or incineration
- [ ] Maceration and disposal to the drain
- [ ] Offsite composting

**Patient care area**
- [ ] Onsite dehydration
- [ ] Food waste to farms
- [ ] Other
- [ ] Onsite composting
- [ ] Disposed to landfill or incineration
- [ ] Maceration and disposal to the drain
- [ ] Offsite composting

**Hospital cafeteria**
- [ ] Onsite dehydration
- [ ] Food waste to farms
- [ ] Other
- [ ] Onsite composting
- [ ] Disposed to landfill or incineration
- [ ] Maceration and disposal to the drain
- [ ] Offsite composting
Review:
Pollution Prevention
Corporate Leadership, Planning, and Management
5. Pollution Prevention
6. Corporate Leadership, Planning, and Management

Pollution Prevention
- Measure of actions to reduce impact on the environment
- Management of harmful materials and operational practices.

Corporate leadership
- Measure of corporate commitment to environmental sustainability
- Formalized organization-wide commitment, support and outreach for green initiatives, monitoring, policy and planning.
5. Pollution Prevention

Policy:
Statement of intention
Environmental objectives and targets
Providing a framework for action.

Target:
Performance requirement
Formed through environmental policies
Set and met to achieve the policy objectives

Action Plan:
Designates responsibilities for achieving targets.
Timeline and means in which targets are achieved,
May include: training, processes, procedures and controls, measurement system, auditing protocols, review and revision of existing documentation.

Areas of focus:
- Environmentally preferable purchasing
- Toxins management
- Sustainable construction / renovation
5. Pollution Prevention

Targets

Examples:

- **Environmentally Preferable Purchasing:** Reduce packaging waste by 20% by 2019, increase reusable products by 15% by 2018.
- **Toxins Management:** Establish inventory of toxic materials by 2019 or replace phthalate-containing PVC medical devices with safer plastics by 2019.
- **Sustainable Construction/Renovation Practices:** Implement green renovation procedures/guidelines by 2020.

Action Plan

Example: To reduce packaging waste by 20% by 2018, steps in Action Plan can include:

1. Establish packaging waste baseline by June 2015 (Facilities Manager/Waste Auditor)
2. Select and prioritize feasible products and suppliers by December 2019 (Waste/ Purchasing/ Finance Officers, etc.)
If applicable, please describe any other Pollution Prevention measures or initiatives the hospital has in place which are not identified anywhere else in the survey. Please provide quantifiable benefits achieved as a result of the Pollution Prevention measures or initiatives.

- Chance to explain any innovative initiatives taking place at your hospital
Leadership

Does your organization's corporate commitment to green initiatives include the follow:

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
<th>Unaware</th>
</tr>
</thead>
<tbody>
<tr>
<td>A corporately recognized environmental mandate or commitment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>An executive champion accountable for the overall hospital environmental strategy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A dedicated FTE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Green Team</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

If applicable, please describe any other green initiatives the hospital has in place which are not identified anywhere else in the survey.
Does your organization offer staff engagement and outreach programming in the following areas?

<table>
<thead>
<tr>
<th>Area</th>
<th>Yes</th>
<th>No</th>
<th>Unaware</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy conservation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water conservation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Waste management</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Green events, such as Earth Day</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

If applicable, please describe any other staff engagement and outreach programming that the hospital has in place which are not identified anywhere else in the survey.
### Does your organization provide a budget for staff engagement and outreach programming in the following areas?

<table>
<thead>
<tr>
<th>Area</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy conservation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water conservation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Waste management</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Green Events, such as Earth Day</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Policy: A statement by the organization of its intention; provides a framework for action.
Target: A detailed performance requirement in order to achieve the policy.

Does your organization have an **action plan** in place stating how that target will be achieved (if yes to above)?

...
Section Review:
Transportation
Food
Climate Change

Reminder: These sections will not impact your score
7. Transportation

What is it?
- According to the Government of Canada, active transportation is using your own power to get from one place to another and includes walking, jogging and biking. Clean transportation includes public transit, car-pooling, shuttles and low-emission vehicles.
- According to the Ontario Telemedicine Network, telemedicine uses telecommunications technology to provide clinical health care at a distance. This helps improve access to medical services that often would not be available consistently in distant rural communities.

Why measure it?
- To understand the behaviours, programs and initiatives of Canadian health care facilities promoting alternative and active forms of transportation
- To gain knowledge on the initiatives and trends in transportation programming of Canadian healthcare facilities
- To understand how Canadian health care facilities are adopting telemedicine
- To gain knowledge on the barriers health care facilities are facing with their telemedicine programs
7. Transportation

Does your facility have a policy to address active and clean transportation? *

☑ Yes, provided policy details last year
☑ Yes, have policies to share
☐ No
☐ Do not know

Does your facility have a program to promote alternative transportation to replace single occupancy vehicles? *

☐ Yes
☐ No

Does your facility have on site bicycle facilities and/or storage options? *

☐ Yes  ☐ No  ☐ Not applicable

Examples include bike racks, bike sheds, etc.

Does your facility have electric vehicle charging stations? *

☐ Yes
☐ No
☐ Not applicable

Does your facility have preferred parking for low emission vehicles? *

☐ Yes
☐ No
☐ Low parking availability
7. Transportation

Does your facility have low emission vehicles within the hospital emergency fleet? *
- No emergency fleet.
- Yes
- No

Is telemedicine utilized at your hospital? *
- Yes
- No
- Other

Please indicate practices needed to better utilize telemedicine.

Example: hospital does not have equipment to support this program. Need more...

Did your facility implement new technologies or services for clean transportation you are proud of in the survey year (2018)?
- Yes
- No
Section Review:
Food
8. Food

What is it?
- Health care facilities have begun to adopt policies and practices to support a healthy food system. This is a system that includes environmental sustainability, improves nutritional quality, supports a shift to low-carbon foods, builds healthy communities, and supports culturally appropriate and sustainable foods.

Why measure it?
- To better understand the efforts, policies and practices of Canadian health care facilities on supporting a more sustainable food system
- To gain knowledge on the gaps in the work, and what resources and programs can help support facilities in creating and contributing to more sustainable food systems
8. Food

Does your facility have a healthy food policy? *
- Yes, provided policy details last year
- Yes, have policies to share
- No
- Don't Know

If your facility does have a policy, please provide the policy name and URL.

Does your facility include local or sustainable purchasing criteria in contracts or RFPs? *
- Yes.
- No
- Do not know

Does your facility actively source meats that are raised without antibiotics? *
- Yes.
- No
- Do not know

Does your facility purchase local foods? *
- Yes.
- No
- Do not know

Has your facility replaced animal based proteins with vegetable based proteins? *
- Yes
- No
- Do not know
Does your facility have any of the following initiatives? Please check all that apply. *

☐ Onsite farmers markets
☐ Onsite food gardens
☐ Community Shared Agriculture programs
☐ Produce prescription program for vulnerable populations
☐ Education programs for diet and nutrition
☐ Traditional food programs for First Nation, Metis, or Inuit populations
☐ Room service
☐ Other

Did your facility implement new technologies or services for a sustainable and healthy food system you are proud of in the survey year (2018)?

☐ Yes
☐ No
Section Review: 
Climate Change
What is it?
• Health care facilities in Canada are being impacted by climate-related events.
  Examples:
  ● Floods
  ● forest fires
  ● heat and extreme weather
Have resulted in:
  ● closed hospitals
  ● patient transfers
  ● damaged infrastructure from smoke and water,
  ● delays in critical care services
  ● stressed health care workers
  ● reduced access to medicines.

Why measure it?
• To understand how Canadian health care facilities are impacted by climate-related events.
• To help Canadian health care facilities prepare for more frequent and intense climate-related events.
9. Climate Change

This section will NOT be impacting your score this year.

How has climate change been recognized by Management at your facility as an issue of concern? Please check all that apply. *

☐ At least one person has been assigned some climate change responsibility.

☐ Climate change risk has been acknowledged in a facility Strategic Plan

☐ Climate change risks have been identified in specific policies.

☐ It has not been recognized.

☐ Do not know.

☐ Other

Has your facility recognized climate change in specific policies?

☐ Yes, provided policy details last year

☐ Yes, have policies to share

☐ No

☐ Don't Know
9. Climate Change

Which climate change-related events have impacted your facility? *

☐ Extreme heat - including extended heat periods
☐ Extreme cold
☐ Extreme rain and floods
☐ Extreme snow
☐ Extreme winds
☐ Ice storm
☐ Drought
☐ Wildfire
☐ Tornado
☐ Extreme storm (thunderstorm, lightening)
☐ Hurricanes and related storms
☐ Avalanche, rock/mud/land slides, debris flow
☐ Rising sea level; coastal flooding, storm surges
☐ New and emerging infectious diseases
☐ Not applicable
☐ Other

Please describe how your facility was affected. Please check all that apply. *

☐ Damage to infrastructure
☐ Reduced access to critical services
☐ Reduced access to critical services such as transportation, power, water supply, communications
☐ Reduced access to medical supplies and products
☐ Reduced access to non-medical supplies and services (food, cleaning, linen, sterilization)
☐ Closing/delay of health services such as closing the hospital, delay in surgeries and/or clinical services
☐ Increased number of patients admitted such as from patient transfer from other hospitals, patients suffering from climate-related events
☐ Health care worker impacts such as stress, exhaustion, mental health
☐ Hospital emergency plan activated
☐ Not applicable
☐ Other
9. Climate Change

Has your facility undertaken a climate change resiliency assessment? *
- Yes
- No
- Do not know
- Other

Has your facility participated in a climate change vulnerability assessment? *
- Yes
- No
- Do not know
- Other

Did your facility implement new technologies or services for climate resiliency you are proud of in the survey year (2018)?
- Yes, provided policy details last year
- Yes, have policies to share
- No
- Don't Know
Section Review: Anesthetic Gas

Reminder: This section will not impact your score.
Anesthetic gases used for surgeries under general anesthesia are potent greenhouse gases which hospitals regularly discharge unabated into the atmosphere. In England, the National Health Service (NHS) discovered the following:

- 5% of the carbon footprint for acute care organisations is from anaesthetic gases
- For acute care organisations, this is equivalent to around half the emissions from gas used to heat buildings and water
- Desflurane and nitrous oxide causes the most global warming and sevoflurane the least
- Measuring, monitoring and reporting carbon dioxide equivalent emissions is crucial for reducing emissions.

Why Measure It?
The Green Hospital Scorecard team is adding these questions to our survey because in Canada we currently do not collect this kind of data and we don’t know the quantity or how health care professionals use these products, although there is much interest.
10. Anesthetic Gas

Key Questions

How much of each anesthetic gas was purchased in the last year (2018) by your health care organization?

What practices to reduce greenhouse gas emissions from discharging scavenged anesthetics are employed or being explored at your facility?

NOTE: The person filling out the survey will need to work with their anesthesiology department, and possibly the purchasing department and pharmacy to obtain these numbers.
10. Anesthetic Gas

<table>
<thead>
<tr>
<th>Gas</th>
<th>Quantity Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isoflurane</td>
<td>Number of 100 ml bottles</td>
</tr>
<tr>
<td></td>
<td># of 100 ml bottles</td>
</tr>
<tr>
<td></td>
<td>Number of 250 ml bottles</td>
</tr>
<tr>
<td></td>
<td># of 250 ml bottles</td>
</tr>
<tr>
<td>Sevoflurane</td>
<td>Number of 250 ml bottles</td>
</tr>
<tr>
<td></td>
<td># of 250 ml bottles</td>
</tr>
<tr>
<td>Desflurane</td>
<td>Number of 240 ml bottles</td>
</tr>
<tr>
<td></td>
<td># of 240 ml bottles</td>
</tr>
<tr>
<td>Nitrous oxide</td>
<td>(which is used as an anesthetic and also a carrier gas for a, b and/or c)</td>
</tr>
<tr>
<td></td>
<td>- cubic metres / years</td>
</tr>
<tr>
<td></td>
<td>d. If other units used, please provide</td>
</tr>
<tr>
<td></td>
<td>Units</td>
</tr>
<tr>
<td></td>
<td>cubic metres / years</td>
</tr>
</tbody>
</table>


10. Anesthetic Gas

**Series of yes or no questions.**

Are Anesthesiologists within your Anesthesia Department choosing to eliminate or reduce the use of Desflurane to reduce greenhouse gas emissions from wasted anesthetic gases?

Are Anesthesiologists within your Anesthesia Department choosing to increase the use TIVA to reduce greenhouse gas emissions from wasted anesthetic gases?

Are Anesthesiologists within your Anesthesia Department choosing to increase the use of regional anesthesia or local nerve blocks to reduce greenhouse gas emissions from wasted anesthetic gases?

Do your anesthesia machines automatically adjust fresh anesthetic gas flow to the lowest flow necessary for both Desflurane and Sevoflurane?

Do you have to manually adjust the fresh gas flow to the lowest flow rate?

What is the lowest flow rate used with Desflurane (litres / minute)?

What is the lowest flow rate used with Sevoflurane (litres / minutes)?

Are Anesthesiologists within your Anesthesia Department choosing to eliminate or reduce the use of nitrous oxide and replace it with medical air?

Technology exists to capture waste volatile anesthetic gases, desflurane/sevoflurane/isoflurane, prior to discharge for the purpose of recycling. Does your facility use this technology?
Reminder: This section will not impact your score. However, top hospitals will receive the Ontario Green Health Energy Behaviour Award!
11. Energy Behaviour

**Energy Behaviour**

The following questions have been developed by health care energy experts and experts on Energy Behaviour. The questions will help identify if/how Energy Behaviour fits into your energy programs at your facility.

This section will NOT be impacting your score this year, but will be evaluated for a new Energy Behaviour Award.

The following questions shall be answered by the person who is responsible for facility energy. Please submit their name below.

<table>
<thead>
<tr>
<th>Title</th>
<th>Name (first and last)</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Director of Facilities</td>
<td>John Adams</td>
<td><a href="mailto:john.adams@example.com">john.adams@example.com</a></td>
</tr>
</tbody>
</table>

What is your understanding of Energy Behaviour? *

Does your facility have an Energy Behaviour initiative(s)?

- [ ] Yes
- [ ] No

**REMINDER:** This section will **NOT** be impacting your score this year.
11. Energy Behaviour

Comment on the following statements as they relate to STAFF using the scale of 1 – 7. For example:
Select 1 if you very strongly disagree with the statement;
Select 2 if you moderately disagree with the statement;
Select 3 if you slightly disagree with the statement;
Select 4 if you are undecided as to the statement;
Select 5 if you slightly agree with the statement;
Select 6 if you moderately agree with the statement;
Select 7 if you very strongly agree with the statement.

REMINDER: This section will NOT be impacting your score this year.
# 11. Energy Behaviour

## Staff Engagement

<table>
<thead>
<tr>
<th>Statement</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy consumption data is made visible to staff who may require it to plan new energy saving measures.*</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Staff feel assured they will not be penalized for taking energy savings actions.*</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Staff feel encouraged to take energy savings actions.*</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Staff have permission to try new energy savings measures.*</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Staff have enough time to practice new energy savings habits *</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Frontline staff (for example facility operators) participate in energy decision making.*</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Staff have tried new energy saving activities this year.*</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Staff attended energy behaviour training (webinars, workshops) in the last year *</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Staff that have been previously unaware or uninvolved in energy savings participated in energy activities this year.*</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Energy savings, including energy waste, is regularly talked about in my organisation by staff*</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
</tbody>
</table>

**Where have you learned about Energy Behaviour? Check all that apply:**

- [ ] Specific websites
- [ ] Webinars
- [ ] Conferences
- [ ] Workshops
- [ ] Training to improve energy behaviour skills
- [ ] Other
11. Energy Behaviour

**Organization Commitment**

<table>
<thead>
<tr>
<th>Question</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leadership regularly request energy impact analysis on all capital projects</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy Behaviour approaches are fully integrated across the entire organization</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy Efficiency is applied consistently across the organization</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy considerations have been fully integrated into purchasing decisions</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complex energy savings projects have been considered</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complex energy saving projects have been approved</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy savings in our organisation are exceeding expectations:*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy savings, including energy waste, is regularly talked about in my organisation by senior leadership:*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Our organisation recognizes Energy Champions:*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

If your organization has implemented Energy Behaviour initiative(s), please indicate if an evaluation has been carried out.

- No, an analysis has not been carried out
- Yes, a cursory analysis has been carried out.
- Yes, a moderate analysis has been carried out.
- Yes, a full analysis has been carried out engaging evaluation experts.
11. Energy Behaviour

Comment on the following statements as it relates to Energy Behaviour within your organization using the scale of 1 – 7. For example:

Select 1 if you very strongly disagree with the statement;
Select 2 if you moderately disagree with the statement;
Select 3 if you slightly disagree with the statement;
Select 4 if you are undecided as to the statement;
Select 5 if you slightly agree with the statement;
Select 6 if you moderately agree with the statement;
Select 7 if you very strongly agree with the statement.

Energy Behaviour has been fully implemented, maintained and evaluated across the entire organization. *

Do you have any comments or concerns in relation to Energy Behaviour you would like to share?

The Coalition's GHS manager will randomly select responding facilities to interview on the Energy Behaviour responses above. Please identify the key person who should be contacted, their title, name and email. Title, name, email address

REMINDER: This section will NOT be impacting your score this year.
The information provided in this survey will be used for benchmark reporting purposes. Participating hospitals will receive a report with their own individual data presented against the backdrop of de-identified data provided by the rest of the participating hospitals. Your hospital’s results will not be made public.

Individual Green Hospital Scorecard reports will be emailed to participating hospitals.

If you agree to have your data used in this manner, please click 'yes' below. By clicking 'yes', your data will be used for benchmark reporting, and your hospital will be eligible for performance recognition.

If you do not agree to have your data used in this manner, please click 'no' below. Your data will not be used for benchmark reporting and you will not receive the individual Green Hospital Scorecard report. As such, your organization will not be eligible for performance recognition.

I agree to the terms of use outlined above, and attest that the information provided is accurate and complete to the best of my knowledge. *

☐ Yes
☐ No

Membership in the Canadian Coalition for Green Health Care

Membership is open to health care organizations, non-profit and government organizations, individuals and students who support the guiding principles contained in Canada’s Joint Position Statement: Toward an Environmentally Responsible Canadian Health Sector, available HERE. If you have any questions about membership, please feel free to reach out to dan@greenhealthcare.ca or refer to our benefits of membership.

The Green Digest

The Green Digest is the Coalition’s free newsletter that provides information about current and upcoming events and initiatives in green health care, as well as updates on the Coalition’s activities. We will be staying connected with GHS participants through updates via The Green Digest, sending updates and reminders about the program, as well as webinar notices and more! Sign up and stay in touch!

Have you signed up for the Digest? *

☐ Already signed up!
☐ No, thank you
☐ Sign me up! I will put my email in the field below.

☐ Other: ____________________________

Check off other and submit your email to sign up for the Green Digest!
FAQ

- When can I complete this year's survey?
- How do I participate in the Green Hospital Scorecard?
- How can I get a copy of my Scorecard or find out if my hospital participated last year?
- Has the survey changed from last year?

- Who can view the submitted data?
- Can I start the survey and come back to it later?
- What are Green Hospital Scorecard recognition levels?

- What is meant by Policies, Targets and Action Plans?
- How can I obtain tonnage information for recycled items?
- What does Biomedical Waste include?

Link to the FAQ at the end of each section

Questions on the survey? Contact dan@greenhealthcare.ca. You can also check out our FAQs.
Thank you for participating!

Questions?

Contact:
dan@greenhealthcare.ca

FAQ

www.greenhealthcare.ca/ghs
www.greenhealthcare.ca/ghs-faq