

Sustainability Forum 2017

The Sustainability Forum is Greening Health Care's annual signature event, bringing together hospitals, industry experts, government and utility companies to drive forward the energy and environmental performance of hospitals. Forum 2017 focuses on the role, responsibility and actions of the healthcare sector in sustainability, and profiles high performance hospitals and what they are doing to achieve deep savings. Expert panels and case studies will address the tough issues in overcoming obstacles to success.

Greening Health Care is grateful to our sponsors for their support of the Forum, and for their work in improving the energy efficiency of our member hospitals

2017 Exhibitors

Armstrong Fluid Technology

Blue-Zone Technologies Ltd.

Carmichael Engineering

EBS AB Energy Canada Ltd.

Ecosystem

Kildonan Energy

Siemens Canada Ltd.

Smith + Andersen

Square M Systems Inc.

View Inc.

Armstrong Fluid Technology

With our expertise in fluid flow, heat transfer, variable speed, and demand-based control, Armstrong Fluid Technology leads the fluid systems industry, including hvac, plumbing, and fire safety in providing the most energy efficient and cost effective solutions to building professionals and owners around the globe.



Hospital clients include:

***Bolded** hospitals are Greening Health Care members

Baycrest, ON
Grand River Hospital, ON
Halton Healthcare Services, ON
Humber River Hospital, ON
Kingston General Hospital, ON
Markham-Stouffville Hospital, ON
North York General Hospital, ON
Orillia Soldiers' Memorial, ON
Providence Healthcare, ON
Ross Memorial Hospital, ON
SickKids, ON
Stevenson Memorial, ON
Trillium Health Partners, ON
William Osler Health System, ON

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Blue-Zone Technologies Ltd.

Proudly Canadian, Blue-Zone Technologies Ltd. is the world's pioneer in the field of halogenated anesthetics pollution prevention. Greening Anesthesia® for over 15 years, Blue-Zone's unique system (proprietary adsorbent, manufacturing process and Health Canada-licensed pharmaceutical plant) allows these harmful GHGs to be recovered & recycled into a new line of generic anesthetics. In so doing, the practice of anesthesia is revolutionized from being 95% wasteful to 100% *sustainable*.



Greening Anesthesia®

Customized for all surgical centres, Blue-Zone's Deltasorb® and Centralsorb® offerings, (for individual operating room and central locations, respectively) control these toxic emissions; generate public health co-benefits; and facilitate full life-cycle Cradle-to-Cradle® stewardship over anesthetic exhaust. Please contact us to join our team of visionary hospitals and to install the solution that is right for your community.

Hospital clients include:

***Bolded** hospitals are Greening Health Care members

Brampton Civic Hospital
Children's Hospital of Eastern Ontario
Etobicoke General Hospital
Grey Bruce Health Sciences
Southampton
Ottawa General Hospital
Peterborough Regional Health Centre
Princess Margaret Hospital
Riverside Hospital
Scarborough General Hospital
Sunnybrook Health Sciences Centre
Toronto General Hospital
Toronto Western Hospital
Trillium Health Partners

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Carmichael Engineering Ltd.

Carmichael Engineering Ltd, are People dedicated to excellence.

Established in 1922, Carmichael remains a private, family-owned establishment, remaining true to its values and entirely focused on satisfying customer needs. Having since grown to a nation-wide presence across Canada, we employ over 500 service technicians and over 25 design specialists who are inspired to carry on the tradition of quality and pride of workmanship. Carmichael specializes in a wide array of HVAC/R services ranging from environmental chambers, Boilers, Chillers, Rooftop units, and more!



Hospital clients include:

***Bolded** hospitals are Greening Health Care members

Centre for Addiction and Mental Health
Grand River Hospital
Halton Healthcare Services
Hamilton General Hospital
Humber River Hospital
Juravinski Hospital
Kingston General Hospital
Mackenzie Health
McMaster University Hospital
Mount Sinai
North York General

Providence Healthcare
Runnymede Hospital
Sick Kids
St. Joseph's Hospital
St. Mike's
St. Peter's Hospital
Trillium Health Partners
UHN
West Park Healthcare Centre
William Osler Health System
Women's College
Michael Garron Hospital

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EPS AB Energy Canada Ltd.

AB, the best-in-class partner for the health care energy efficiency.

Over the past 30 years, AB has consistently emerged as the trusted international partner for energy efficiency within the health care sector. AB is a company completely dedicated to cogeneration with over 1,150 installed plants and direct presence in 19 countries worldwide including Italy, Canada, Brazil, Mexico, UK, Germany and Russia. We produce, install, and manage plants as if they were our own. The main production activities and engineering research are concentrated in modern industrial facilities located in Orzinuovi (BS, Italy), covering approx. 40,000 m² of interlinked buildings which house the production facilities, engineering center, and service and managerial offices.



Service is a key factor for AB's success, with over 250 specialised technicians worldwide, local spare parts availability and control room, completely dedicated to the support and maintenance of the installed base. AB's indoor and outdoor solutions, across several plants installed, are characterized by their design flexibility to client's process requirements and guaranteed availability.

AB's combined heat & power (CHP) systems enable hospitals to reduce energy costs, improve environmental performance, and increase energy reliability. Resources saved are often redirected to improve patient care.

Are there many hospitals in the developed world that don't rely, to some extent, on on-site energy supplies from cogeneration systems? Surely not. The fit between the energy needs of most hospital buildings and the strengths of AB's CHP solutions is particularly good.

Many hospital buildings have relatively high energy loads for heating, hot water and sterilisation; operate around-the-clock, seven days a week; and need guaranteed continuous power for mission-critical functions from operating theatres downwards.

Hospital clients include:

***Bolded** hospitals are Greening Health Care members

Ospedale della Versilia
Siram SpA - Ospedale di Piacenza
Ospedale di Terni
Ospedale San Camillo di Roma
Ospedale Silvestrini
Policlinico Sant'Orsola
Saint Vincent Hospital
Aria Health Hospital

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Ecosystem

Since 1993, Ecosystem has been providing integrated design engineering, construction management, monitoring and verification, incentives management, training and awareness services to Canadian municipalities. The company has retrofitted over 1,000 buildings, resulting in \$400 million in cumulative energy savings and 385,000 tonnes of avoided GHG emissions. Ecosystem guarantees energy savings and the company's healthcare clients include Lakeridge Health, Hotel-Dieu Kingston, Haliburton Highlands Health Services and many more. 100% of Ecosystem's projects have been implemented in occupied buildings, enabling the company to develop an extraordinary level of expertise. For example, modifying mechanical systems in hospitals, including operating rooms, is a challenge that very few companies have the experience and skills to address.



Hospital clients include:

***Bolded** hospitals are Greening Health Care members

Baycrest Health Sciences

Lakeridge Health Hospital
Haliburton Highlands Health Services
Hotel-Dieu Hospital Kingston
St. Michael's Hospital
Mount Sinai Beth Israel
Bronx-Lebanon Hospital Center
The Brooklyn Hospital Center
McGill University Health Centre
General Jewish Hospital
CHU Sainte-Justine
CHUM
CHU de Québec
(and many more in the Province of Quebec)

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Kildonan Energy

Kildonan Energy have been providing Flow Control and Monitoring products for the commercial HVAC industry since 1992. We have been recognized as providers of quality equipment with superior support and training. Our customer base includes Hospitals, Office Towers, University Campuses, Government Facilities, Schools, Pharmaceutical Manufacturers, Hydro Facilities and many other commercial applications.



Hospital clients include:

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Baycrest Centre
Centre for Addiction and Mental Health
Grand River Hospital
Humber River Hospital
Markham Stouffville Hospital
North York General Hospital
Ontario Shores Centre
Orillia Soldiers Memorial Hospital
Providence Healthcare
Ross Memorial Hospital
Runnymede Healthcare Center
Hospital for Sick Children
Trillium Health Partners
Waypoint Centre
William Osler Health System
Women's College Hospital

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Siemens Canada Ltd.

As one of the largest and most well known technology companies worldwide, and with over 4,800 employees in Canada alone, Siemens directly serves the Canadian Healthcare market through its Building Technologies group, which provides Automation & Maintenance services to efficiently run Hospital Buildings and Clinics, and through its Healthineer group, which provides a diverse and wide ranging array of services and equipment. Please contact us and let us show you how Siemens **ingenuity** can work for you!



Automation Services include:

- Building Automation Control (BAS) Systems
- Energy Monitoring Software (Advantage Navigator)
- Fault Diagnostics and Detection (FDD)
- Fume Hood & Lab Control Systems
- Fire Alarm Systems
- Security Systems

Canadian Hospital clients include:

***Bolded** hospitals are Greening Health Care members

Alberta Children’s Hospital
Centre for Addiction and Mental Health – Toronto
Cold Lake Health Unit
Kingston General Hospital
WestView Health Centre
Brampton Civic Hospital (WOHS)
Women’s College Hospital
Royal Alexandra Hospital
East Edmonton Health Centre
Northumberland Hills Hospital
(and many more ...)

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Smith + Andersen

Founded in 1965, Smith + Andersen's early focus was in the field of mechanical building systems. Initially based in Toronto, S+A grew significantly in 1976-77 with the opening of branch offices in Calgary and Ottawa. Further expansion included the creation of an electrical division (1997), integration of a full-service communications services and project management division (1999), and the establishment of offices in Edmonton, Vancouver, Kelowna, Victoria (2009), London (2012), Winnipeg (2014) and Halifax (2016). With sustainability increasingly forming a critical component of all company projects, we created our sister firm Footprint in 2011. S+A now offers a range of sustainability services, from site planning and energy modelling through to the facilitation of a LEED certification process.



Smith + Andersen

footprint

FOOTPRINT

Launched in June 2011 by Smith + Andersen, Footprint is an interdisciplinary consultancy that acts as a catalyst to support engineers, architects, building owners and operators optimize sustainability in their projects. Currently Footprint has a presence in offices across Canada and is making an impact in this growing field.

Past Hospital Clients:

***Bolded** hospitals are Greening Health Care members

Chatham-Kent Health Alliance - Emma Street Campus

Georgian Bay Hospital

Humber River Hospital

Milton District Hospital

New Western Memorial Regional Health Centre

Niagara Health System

North York General Hospital

Ottawa Valley Health And Wellness Centre

Peel Memorial Centre

Queen Charlotte / Haida Gwaii Hospital

Royal Ottawa Hospital P3 Compliance

St. Francis Memorial Hospital-

St. Joseph's Healthcare Hamilton

St. Thomas Elgin General Hospital

Toronto Western Hospital

North York General Hospital – Pharmacy Renovation

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Square M Systems Inc.

The Square M Group consists of two companies:

- Square M Engineering Ltd (1972), Burnaby, British Columbia
- Square M Systems Inc (1983), Markham, Ontario

Square M Group has been servicing engineers, designers, architects, mechanical contractors and end users for over 40 years by providing a number of highly energy efficient and solution based products to the HVAC industry. We are the Canadian representative for many of our suppliers and have built solid relationships that allow us to maintain a strong commitment to both our manufacturers and our customers. Our product lines have been carefully selected to ensure our customers receive innovative products that enhance performance and provide solutions to many common and unique HVAC applications.



Key Products:

- Critical room pressure monitoring / controlling equipment by Critical Room Controls
- Low pressure VAV Diffusers by Acutherm/EH Price
- Air curtains by Berner International Corporation
- Air Flow Measuring equipment by Air Monitor Corporation
- Air mixing technology by Blender Products Inc.

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Alberta Children's Hospital, AB
Baycrest, ON
North York General Hospital, ON
Providence Healthcare, ON
Ross Memorial Hospital, ON
SickKids Hospital, ON
Trillium Health Partners, ON

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View Dynamic Glass

View Dynamic Glass supports healing, wellness and occupant comfort by providing beautifully expansive views of the great outdoors and abundant natural light. Bring expansive views to patients

with the peace of mind that View Dynamic Glass is built to last. We are a tech company from Silicon Valley that designs and manufactures Dynamic Glass, a glass that electronically tints based on the position and strength of the sun. Living & working beside our glass eliminates the glare and uncomfortable heat gain, and you never need blinds again. In a health care setting, this is invaluable as you can eliminate those hard to clean, infection carrying blinds, and your staff and patients are always surrounded by natural light and access to beautiful views. This technology leads the trends of Human Wellness, Energy Savings, and Smart Technology.

view

Dynamic Glass

Our largest hospital client is Humber River Hospital, which is one of View Glass's largest installations. Patients and staff are thriving with the access to uninterrupted views and connectivity to nature, the natural light and complete comfort and control. Methodist Olive Branch Hospital also has our glass, as well as Kaiser Permanente Medical Office and Clovis Community Conference Center.

Hospital clients include:

Humber River Hospital

Park Potomac Building C
Kaiser MOB Market and Valentine
McMaster University Medical Building
Clovis Health and Education Conference Center
Kaiser MOB Murrietta
Methodist Hospital Olive Branch
CCMC Phase II
Project Frog-Kaiser Victorville

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