The Greener Facilities Conference & Expo will prepare and educate Alberta-based facility managers and municipal staff on new technologies and innovation, share best practices, link programs that modify occupant behavior with infrastructure improvements, and address funding options to reduce greenhouse gas emissions in their facilities and/or outdoor spaces.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00 - 10:00 AM</td>
<td>Exhibitor Set Up</td>
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<tr>
<td>10:00 AM - 12:00 PM</td>
<td>Registration and Tradeshow Expo Open</td>
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<tr>
<td>12:00 - 1:00 PM</td>
<td>Lunch &amp; Plenary Speaker Tanya Doran - Why are we so Green about Going Green?</td>
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<tr>
<td>1:00 - 2:00 PM</td>
<td>A1 Energy Efficiency 101, David Dodge &amp; Marc Huot&lt;br&gt;A2 Energy Performance Contracts, Peter Love &amp; Ed Paras&lt;br&gt;A3 Existing Buildings Can Go Green, Canada Green Building Council</td>
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<tr>
<td>2:00 - 2:30 PM</td>
<td>Tradeshow Refreshments</td>
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<td>2:30 - 3:30 PM</td>
<td>B1 How Solar Works in Alberta, Jason Atkinson, Brian Krest &amp; Jim Sandercock&lt;br&gt;B2 Parks and Outdoor Spaces, Brent Wyman, Jason Pick &amp; AB&lt;br&gt;B3 Low Impact Development, Olena Olafson, Aaron Dublenko &amp; Gareth Thomson</td>
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<tr>
<td>3:30 - 3:45 PM</td>
<td>Transition Break</td>
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<td>3:45 - 4:45 PM</td>
<td>C1 Energy Efficiency: Provincial Funding Opportunities, Jeff Rempel&lt;br&gt;C2 The Future of Buildings and Alberta's Role (A), Canada Green Building Council&lt;br&gt;C3 How to Improve Infrastructure in a Low Carbon Economy (A), Johnson Controls&lt;br&gt;Combined Heat and Power (B), Evan Green&lt;br&gt;How to Minimize Waste Using a Building Control System (B), Prism Engineering</td>
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<tr>
<td>4:45 - 5:00 PM</td>
<td>Transition Break</td>
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<tr>
<td>5:00 - 6:00 PM</td>
<td>Plenary Speaker David Dodge - Realities of Climate Change in Alberta</td>
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<tr>
<td>6:00 - 8:30 PM</td>
<td>Green Reception</td>
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*please note this program is subject to change*
# SCHEDULE

**Friday, Nov 10**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:00 AM</td>
<td>Tradeshow Expo Opens</td>
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<tr>
<td>8:00 - 9:00 AM</td>
<td>Breakfast &amp; Plenary Speaker Ian Storey - An Integrated Approach to Design to Reduce Carbon Footprint</td>
</tr>
</tbody>
</table>
| 9:00 - 10:00 AM| D1: Implementing Edmonton’s Community Energy Transition Strategy  
                           D2: Passive House - A First of Its Kind  
                           D3: Lessons from Rural Communities  
                           *Lisa Dockman & Jenny Hong*  
                           *Panel*  
                           *Panel* |
| 10:00 - 10:30 AM| Tradeshow Refreshments                                                                       |
| 10:30 - 11:30 AM| E1: Alternative Energy Solutions  
                           E2: Community Success Stories  
                           E3: Planning for the Future  
                           *David Dodge*  
                           *Panel*  
                           *Panel* |
| 11:30 - 11:45 AM| Transition Break                                                                             |
| 11:45 - 12:45 PM| F1: Innovative Design Elements for Green Buildings and Outdoor Spaces  
                           F2: Guide to Green Facility Management  
                           *Ian Storey & Ben Ellah*  
                           *Swish Maintenance*  
                           *Mechanical Insulation - Why Should I Care*  
                           *Thermal Insulation Association*  
                           *Panel*  
                           *Panel*  
                           *Moderator: Gareth Thomson* |
| 12:45 - 1:30 PM| Lunch and Closing Plenary - Green Buildings and Green Occupants                             |
| 1:30 - 2:00 PM | Tradeshow Expo Draw Prize Extravaganza                                                        |

*please note this program is subject to change*
Tanya Doran

Tanya has spent her career championing sustainable building design. From her first role at an electric utility provider to her recent senior roles consulting for large national organizations and the electric transmission council in Edmonton, Tanya has seen the evolution of sustainable design practice across Western Canada.

Her multifaceted career spans from promoting sustainability through stakeholder engagement, workshops, speeches, and presentations; to developing and implementing strategic plans and advocating for practical sustainable practices within Alberta. She has been the Executive Director, Alberta Chapter of the Canada Green Building Council (CaGBC) and spent 17 years engaged with the CaGBC’s annual sustainable building symposium.

Tanya is inspired by connecting the natural world to the built environment, and creating energy conscious and efficient buildings.

David Dodge

David Dodge is the producer and host of the www.GreenEnergyFutures.ca multi-media series of more than 170 documentaries on green energy technologies, projects, entrepreneurs and leaders in Canada. You can hear his features on CKUA Radio in Alberta. David is also the Chair of the Board of Energy Efficiency Alberta and Co-chair of Edmonton’s Energy Transition Advisory Committee.

David is an environmental journalist and a photojournalist who has worked for newspapers, published magazines and was the production manager for a Canadian nature publisher. He produced more than 350 award-winning EcoFile radio programs on sustainability for the CKUA Radio network. He has has worked for numerous non-profit organizations such as the Pembina Institute, Canadian Parks and Wilderness Society and Greenlearning.ca.

David has been an active volunteer in his own community league for 20 years and served as the president of the Edmonton Federation of 157 Community Leagues in Edmonton and most recently completed a solar project at Evansdale Community League in his neighbourhood.

Ian B. Storey

Ian B. Storey P. Eng., is the President of I.B. Storey International, a group of independent specialty engineering firms founded by Ian in 2001. After 15 years of providing innovative refrigeration solutions, I.B. Storey Group of Companies has earned a strong reputation for being industry experts in industrial, commercial, and recreational refrigeration systems. The I.B. Storey Group of Companies enhances facility performance by maximizing energy efficiency opportunities, reducing operating costs, and improving service levels. The I.B. Storey Group of Companies is comprised of I.B. Storey Inc. and I.B. Storey US Inc. and has completed projects throughout North America, ranging from specialty engineering to system redesign to training seminars.

Ian Storey, P.Eng. is an award winning industry expert honored with the Leadership Award by Efficiency Nova Scotia for his contribution and influential impact on the Energy Efficiency Industry. Previous accomplishments include being recognized by the Ontario Recreation Facilities Association as the recipient of the prestigious Don Harrison Energy Champion Award for his outstanding commitment to energy management.
A SESSIONS

A1 - Energy Efficiency 101
David Dodge & Marc Huot

Energy efficiency is THE most cost effective way to decrease energy consumption, reduce emissions, and lower operating costs. The Alberta Energy Efficiency Agency has a rapidly developing suite of programs to help Albertans in their businesses, homes, and institutions - and you might be a beneficiary! Come explore energy efficiency with Agency staff and resource people from the Municipal Climate Change Action Centre, which delivers programs for municipalities.

A2 - Energy Performance Contracts
Peter Love & Ed Paras

Learn how to use guaranteed energy performance contracts to transfer the technical and financial risks of major building retrofits.

A3 - Existing Buildings Can Go Green
Canada Green Building Council

Session description to come.

B SESSIONS

B1 - How Solar Works in Alberta
Jason Atkinson, Brian Krest, Moderated by Jim Sandercock

Learn about connecting to the grid, the rules and options on receiving credits for energy generation, and what is possible in the province. *Full session description coming.

B2 - Parks and Outdoor Spaces
Brent Wyman, Jason Pick, Alberta Low Impact Development Partnership

Topics will include everything from the types of turf grasses and trees we should plant for the future, to irrigation and water management practices. The design factor for parks and open spaces as well as the incorporation of alternative energy sources into park operations will also be discussed.

B3 - Connecting School Infrastructure with Student Learning
Olena Olafson, Aaron Dublenko, Moderated by Gareth Thomson

How many students or teachers really understand how their school works? Where does the school’s energy come from, and how is it used? Where does our waste go once we put it in the bin? Every school building provides an opportunity to engage educators and students around such questions - and create our future sustainability leaders. This session will outline key programs and approaches used in some leading-edge Alberta schools and school divisions that leverage their school buildings and their operations and maintenance professionals to help students become more ecologically aware, socially just, and economically responsible, creating synergy between green students and Greener Facilities!
C SESSIONS

C1 - Energy Efficiency: Provincial Funding Opportunities
Jeff Rempel

ICF is administering a number of energy efficiency initiatives through incentives, grants and audits. These include:

• Energy efficiency Alberta, business, non-profit, and Institutional (BNI) Energy Savings Program, which provides rebates for specific energy efficient products;

• Municipal Climate Change Action Centre; Non-Profit Energy Efficiency Transition (NEET) Program which provides no-charge audits to non-profits to help them determine their savings.

C2 - The Future of Buildings and Alberta’s Role (A)
Akua Schatz

Existing buildings are key to a carbon-free future. They make up over 80 percent of Canada’s building stock which will continue to be in operations in 2030 and beyond. This presentation will showcase research findings that offer a roadmap for the role that large commercial, institutional and residential buildings can play in meeting climate change targets while fostering economic growth and energy savings. It will unpack the particular strategies that can be undertaken in Alberta to retrofit its existing building stock and set itself on the pathway to a low carbon future.

C3 - How to Improve Infrastructure in a Low Carbon Economy (A)
Andrew Nartey, Randy Taylor, Johnson Controls

On Jan 1, 2017, the Alberta Government implemented the Alberta Carbon Levy as a way to drive municipalities and School divisions to reduce greenhouse gas emissions that contribute to climate change. The carbon levy further reduced already diminished financial resources that municipalities and school divisions had, to tackle capital expenditures, deferred maintenance projects and to execute long-term projects. Furthermore, there is an increasing demand by stakeholders for municipalities and school boards to progress towards a sustainable and a more energy efficient future, without increasing tax revenues. This session will explore a creative way to implement innovative renewable technologies (such as battery storage), capital and deferred maintenance projects, that provide energy savings outcomes, reduced dependence on cash outlay and measurable outcomes to stakeholders.

How to Minimize Waste Using a Building Control System (B)
Sam Thomas, Prism Engineering

Building control systems are an integral part of many of our facilities, but we often forget the impact that they can have on energy consumption when configured sub-optimally. In this session we’ll explore low/no-cost ways to optimize your building control system to minimize energy waste in your facilities, whilst improving occupant comfort and system reliability. You’ll be surprised how many opportunities are right under your nose!
D SESSIONS

D1 - Implementing Edmonton’s Community Energy Transition Strategy
Lisa Dockman & Jenny Hong

Unanimously approved by City Council in April 2015, Edmonton’s Community Energy Transition Strategy is a risk management strategy designed to transition Edmonton to a low carbon, sustainable energy future. The strategy outlines more than 150 tactics designed to reduce greenhouse gas emissions, increase energy efficiency and generate more electricity locally. As the strategy moves forward into implementation, efforts to mitigate energy use in Edmonton’s buildings are critically important to achieving Edmonton’s climate targets. This session will dive into the details of several foundational policies and programs essential to the implementation of Edmonton’s Community Energy Transition Strategy, such as: Edmonton’s Building Energy Benchmarking Program, the City of Edmonton’s Corporate Sustainable Building Policy and Corporate GHG Management Plan.

D2 - Passive House - A First Of Its Kind
Panel - Oscar Flechas, Sergio Martinez, Tara Ellis, Michael Doornbos, Vern Lymburner, Marty Paradine; Moderated by Murray Cunningham

Hear from a panel of representatives that are involved in the first institutional Passive House project – Valleyview Town Hall, in Alberta. Learn what the Passive House process is all about; how it changes construction techniques; the unique challenges a project of this type presents and ultimately how it has impacted the Town of Valleyview.

D3 - Lessons from Rural Communities
Panel - Sandy Stafford, Les Quinton, Lyle Rowe

Learn about the challenges faced by rural municipalities, agricultural societies and schools who have pursued green energy solutions; the lessons they learned and the successes they achieved.
E SESSIONS

E1 - Alternative Energy Solutions
David Dodge
Solar, wind, geothermal, energy efficiency - which should you go with? This session will review some of the pros and cons of these technologies, and tell some stories - courtesy of Greenenergyfutures.ca - of successful alternative energy solutions implemented by schools, municipalities, and counties in both rural and urban environments.

E2 - Community Success Stories
Panel - Kevin Bamber, Les Quinton, Jason Atkinson
This panel will review learnings from municipalities that made the leap to green facilities. Learn how communities implemented their renewable energy plan, incorporated alternative energy initiatives, executed energy management and conservation strategies, considered financing and the impact on their annual operating budgets - and reduced their environmental impact.

E3 - Planning for the Future
Panel - Nancy Hackett, Trevor Jensen, Andy Tchir
This session will explore the development long term plans, policies, goals and targets for organizations, municipalities. Examples of plans that will be discussed: net zero strategies, Envrionmental Master Plans, green building policies and energy reduction targets. How these plans integrate and fit in with other long term plans The last half of this session will include workshop time to explore how your organization could begin to advance such green planning.
F SESSIONS

F1 - Innovative Design
Elements for Green Buildings
and Outdoor Spaces
Ian Storey & Ben Ellah

This session will explore innovative design elements and new technologies within facilities and outdoor spaces. It is well known that recreation facilities are energy intensive. However by planning for the future in the development of new facilities as well as when renovating or upgrading existing facilities the resources used financially and environmentally can be reduced.

F2 - Guide to Green Facility Management (A)
Mark Ambler - Swish Maintenance

An informative session designed to engage and educate facility managers of all organizations about the latest trends and technologies in green cleaning as well as key environmental & sustainability concerns in facilities. Learn simple steps your organization can take toward a more sustainable path.

Mechanical Insulation - Why Should I Care? (B)
Steve Clayman - Thermal Insulation Association

Pipe Insulation? Duct insulation? Equipment insulation? Things that don’t light up, beep, come with touch-screens and remain mostly out of sight? And, no moving parts to wear out? What can be exciting about that? What’s the connection between LEED and mechanical insulation? We’ll show where mechanical insulation fits in with the National Energy Code for Buildings-2015, the Alberta Building Code-2014, Alberta Infrastructure and ASHRAE 90.1-2010. We’ll find out how correctly specified and installed mechanical insulation impacts on energy conservation, greenhouse gas emissions and health and safety issues. We’ll talk about a no-cost/low-cost approach to determining when insulation on mechanical systems requires immediate attention. We’ll see how easy it is to “fix” seemingly complicated insulation deficiencies. We’ll talk about personnel protection; condensation control and address mould growth and throw in Legionella and wasting water for good measure. We’ll review how MIDG Calculator Tools and a free, downloadable software tool called, “3E Plus” can tie all of these elements together.

F3 - Solar Panels on the Outside - Solar Learning on the Inside
Panel - Bradie Yvelland, Caroline Nixon, Pedro Mendonca
Moderated by Gareth Thomson

Alberta Education’s commitment to grant funding has already allowed 69 Alberta schools to install solar panels. These grants come with the requirement for schools to create educational activities for students and opportunities for the local school community to learn about the installation. In this session you’ll hear from Alberta Education about the program and its links to the curriculum, AND about some top-notch education and outreach programs designed to leverage this technology and help students - and adults! - learn about solar power, alternative energy, and leaving a lower-carbon footprint.
Generous funding from the Community Environment Action Grant program has allowed us to host this event.

Exhibitors

- ABCRC
- ATCO Pipelines and Liquids
- Direct Energy Business
- Eagle Builders
- Energy Services Association of Canada
- ENMAX Energy
- Gameday Sport Services
- GlasCurtain
- Great Canadian Solar
- Greenplanet Energy Analytics
- ICF on behalf of Energy Efficiency Alberta
- Johnson Controls Canada LP
- NuEnergy Systems
- Prism Engineering
- Scott Builders
- Stantec
- Swish Maintenance
- Thermal Insulation Association of Alberta

Partners

- Alberta School Boards Association
- A-RFP
- AUMA
- Agricultural Societies
- Aamdc
- Stantec

Education & Outreach Partner

- ACEE

Green Power Sponsor

- Bullfrog Power

Networking Event Sponsors

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