

Ottawa - Accelerating to Zero Program | February 20, 2019

Time	Topic
8:00 - 9:00 a.m.	Registration
9:00 - 9:15 a.m.	Welcome and Opening Remarks (CaGBC, NRCan)
9:15 - 9:45 a.m.	Keynote Address (Ministerial addresses)
9:45 - 10:00 a.m.	Break
10:00 – 10:20 a.m.	CaGBC Chapter and Zero Carbon Program Welcome and Updates
10:20 - 11:20 a.m.	<p>Zero Carbon Costing Study Launch (Mark Hutchinson, CaGBC; Antoni Paleshi, WSP)</p> <p>There needs to be a business case to support uptake of zero carbon buildings in the public and private sectors in Canada. With this in mind the CaGBC worked with several funding partners as well as WSP to study the incremental capital and lifecycle costs associated with zero carbon building design and construction. This session will explore the full results of the study including seven building types in six cities in Canada.</p>
11:20 - 11:50 a.m.	<p>Zero Carbon Building Construction Costs – A Real World Example (Tony Cupido, Mohawk College)</p> <p>Mohawk College's Joyce Center for Partnership and Innovation was one of Canada's first <i>Zero Carbon Building – Design</i> certifications. With the project completed and occupied, this session will explore the actual construction costs for a high-performance building in Canada.</p>
11:50 - 12:40 p.m.	Networking Lunch
12:40 - 1:40 p.m.	<p>Regulating Zero (Steve Willis, City of Ottawa; Jonathan Westeinde, Windmill Development Group; Frank Lohmann, National Research Council; Moderator: Akua Schatz, CaGBC)</p> <p>Getting to zero uses proven technology. The barriers that exist can be regulatory and financial. This panel discussion will explore policies, programs and ideas that can encourage more zero carbon development in the local area.</p>
1:40 - 2:40 p.m.	<p>Innovative Solutions for Zero Carbon Buildings (Lisa Westerhoff, Integral Group; Kenny Smith, Integral Group)</p> <p>This two-part presentation examines innovative solutions for zero carbon buildings, focusing on the Canadian context but drawing from examples across the world. The session will present an overview of the need for market transformation in our buildings sector and identify the key programs, policy tools and incentives that will play a role.</p> <p>We will discuss the efforts that have been taken at provincial/state and municipal scales to support the building industry achieve zero carbon, as</p>

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	<p>well as the impact voluntary standards are having. In the second half of the presentation, we will explore a selection of specific building projects that showcase innovative and cost-effective low-carbon solutions from across the world.</p>
2:40 - 2:55 p.m.	Break
2:55 - 3:55 p.m.	<p>Designing for Thermal Energy Demand Intensity (TEDI) (Matt Carlsson, Morrison Hershfield)</p> <p>Passive design strategies provide reliable energy savings over the life of the building. Reducing the heating demand of a building reduces the load most commonly powered with fossil fuels and provides added comfort and resiliency. This session will explore strategies for effectively reducing the heating demand during design.</p>
3:55 - 4:55 p.m.	<p>Heating, Ventilation and Air Conditioning (HVAC) in Zero Carbon Buildings (Steve Kemp, RDH Building Science)</p> <p>Driving down carbon emissions requires us to rethink how we design HVAC systems and “systems thinking” is needed. Zero or Zero Ready buildings will need to be designed to accept low grade heat from heat pumps or low carbon district energy systems. Ventilation and heating/cooling distribution systems, or secondary systems can and should be designed to eliminate simultaneous heating and cooling, and separate ventilation from conditioning for improved ability to control temperature, humidity and ventilation. This session will explore what types of HVAC systems are zero carbon, and what types of systems can be adapted to be zero carbon with minimal retrofit cost.</p>
4:55 - 5:00 p.m.	Closing Remarks
5:00 – 7:00 p.m.	<p>Networking Reception</p> <p>This is a joint social with the General Assembly of the United Nations' Global Alliance for Buildings and Construction that brings together government and industry representatives from around the world to discuss collaborative efforts to create low-carbon building.</p>