

ACCELERATING TO ZERO



BUILDING SOLUTIONS FOR A LOW CARBON ECONOMY / MARCH 28, TORONTO / EVERGREEN BRICK WORKS

8:30–9:00 a.m.

Welcome and Introductions

Jeff Ranson, CaGBC; Fin MacDonald, CaGBC

9:00 – 10:15 a.m.

Making the Case for Zero Carbon

Mark Hutchinson, CaGBC; Antoni Paleshi, WSP

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.

10:15 - 10:35 a.m.

Break

10:35 - 11:00 a.m.

Local Zero Carbon Case Studies

Sheena Sharp, Coolearth Architecture; Aman Hehar, Humber College

Mount Dennis Daycare, Toronto

Building Nx, Humber College, Toronto

11:00 - 12:00 p.m.

Regulating Zero

Lisa King, City of Toronto; David Potter, Town of Newmarket; Andrew Pride, Andrew Pride Consulting; Moderator: Michael Brooks, REALPAC

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 Greater Toronto Area.

12:00 - 12:45 p.m.

Lunch and Networking

12:45 – 1:45 p.m.

Case Studies From Around the World

Kenny Smith, Integral Group; Lisa Westerhoff, Integral Group

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. It will also explore specific building projects that showcase innovative and cost-effective low-carbon solutions from across the world.

1:45 – 2:05 p.m.

Local Zero Carbon Case Studies

Tristan Truyens, DIALOG; Peter Duckworth-Pilkington, ZAS Architects + Interiors

Arthur Meighen Building Retrofit, Toronto

TRCA Headquarters, Toronto

2:20 – 3:50 p.m.

Don't Be Afraid of Whole Building Life Cycle Assessment

*Frances Yang, Arup (San Francisco, CA); Meghan Lewis, WeWork (Seattle, WA);
Barbara Rodriguez Droguett, University of Washington (Seattle, WA)*

Embodied carbon, the emissions from making the materials of our built environment, is a larger source of global warming than we thought. Getting to zero by 2050 to avert our 1.5-degree tipping point means reducing embodied carbon is more urgent than ever. Luckily many of the tools and expertise are here to tackle embodied carbon head on, but they aren't widely used or understood by the building community. This instructive and interactive session gets people started.

3:50 - 4:45 p.m.

Understanding Designing for Reduced Thermal Energy Demand Intensity (TEDI)

Alex Blue, Morrison Hershfield (Seattle, WA); Matt Carlsson, Morrison Hershfield

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.

4:45 - 6:00 p.m.

Drinks and Networking**PRESENTING SPONSOR:****GOLD SPONSOR:****SILVER SPONSOR:****SILVER SPONSOR:**