

Roadmap to Reality

Pathway to Net Zero Ready

Tuesday, June 3rd
Moncton, NB
HYATT PLACE



Speakers



Andres Gallardo

Research Associate
National Research
Council



Luminita Dumitrascu

Research Associate
National Research
Council



Trevor Murray

Building Code
Administrator
Province of NB



Natasha Brooks

Director of Operations
Building Efficiency
Resources Ltd



Lee Scott

Director
Sales North America
Element5



Vinny Correa

Technical Advisor
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[Book accommodations here](#)

Questions?
[**info@aanb.org**](mailto:info@aanb.org)

[Registration](#)

Natasha Brooks

Director of Operations for Building Efficiency Resources Ltd (BER), managing and conducting Quality Assurance and Training for energy performance professionals across North America. As an Architectural Engineering Technician and a Building Science enthusiast with over 16 years' experience in the Canadian and US energy efficiency industry, Through her early career work as an Energy Advisor and then as New Home Construction Program Manager with Efficiency Nova Scotia she has, and continues, to work closely with building industry stakeholders, to help advance the energy efficiency sector by sharing knowledge, research, resources, and development opportunities. In 2016 she became a Certified Passive House Consultant (CPHC) and Verifier for the Passive House Institute US (Phius) and acts as their Canadian representative. She also serves on the technical and education committee for CACEA, and on the technical committee for Phius.

Presentation Title: Affordable NBC2020 Performance Path Compliance with Passive House.

A Passive building provides many benefits for the environment and its occupants such as comfort, healthy interior, safety, durability, long-term affordability, and resilience. This presentation reviews case studies of single family and multi family affordable housing projects that applied passive house principles and will demonstrate how building to these standards allows a building to meet NBC2020 Tier 5 Energy Performance Requirements.

Presentation Title: The Journey Forward – The Path to Net Zero Energy Buildings

The path to Net Zero energy buildings by 2050 can at times feel overwhelming, with impending code changes, new technology, and new testing requirements. This presentation will review the current market and outlook for Net Zero in Atlantic Canada, how Net Zero can be achieved, and the pathways available to ensure buildings achieve Net Zero goals while being economically viable, environmentally responsible, and comfortable for their occupants.

Lee Scott

Studied Biosystems Engineering at the University of Manitoba and received an MBA from the Saundermoen School of Business. Throughout his career Lee worked as a legal and construction surveyor, a Civil engineer, and now applies his extensive background in construction and design to his current role as Director of Sales for Element5 in Canada and the United States.

Lee has worked on mass timber projects of all sizes and market segments across North America and has an intimate knowledge of the Mass Timber design for manufacturing and assembly process. Lee is someone clients can turn to for feedback, pricing and technical support on projects.

Presentation Title: Mass Timber: Building for the Future.

An exciting look at the growing sector of Mass Timber. Lee Scott, Director of Sales, North America will lead the group through a presentation focused on Element5 and the exciting future of Mass Timber. With the addition of 18 stories in the Ontario Building Code, this proves the capabilities of Mass Timber are top of mind. Offering a unique combination of environmental, economic and aesthetic benefits, Mass Timber is unique, while maintaining the same installation and constructability as standard materials. Highlighting various projects across North America, attendees will have the chance to ask questions and dig in.

Trevor Murray

Trevor Murray is the Building Code Administrator for the Province of New Brunswick and a frequent speaker at conferences on the subject of building/energy codes and building regulations. With over 12 years as a municipal building official, he is able to connect with regulatory officials, designers, and contractors alike, building towards a common purpose of the construction industry for code complaint buildings.

Presentation Title: 2020 Codes and the Path Ahead

The Province of New Brunswick has committed to the adoption of net-zero ready building construction by 2030. Join Building Code Administrator, Trevor Murray, for a look at how the province is planning to move towards this goal and how it will likely affect the design and construction of buildings, including new requirements for operational carbon.

Vinny Correa

Mechanical Engineer and Civil Engineering Technologist with extensive experience in project management, design, and field engineering. He earned his Mechanical Engineering degree from UNIFEI, a renowned university in Brazil, and later obtained a Civil Engineering Technologist diploma from the New Brunswick Community College in Moncton.

Over the course of his career, Vinny has held key roles in diverse industry sectors gaining a comprehensive blend of technical expertise and leadership experience. Since joining the WoodWorks Atlantic program in 2021, Vinny has been a diligent advocate for the use of wood in construction. He collaborates with architects, engineers, developers, and government stakeholders to address technical challenges and promote wood as a sustainable, high-performance structural material. Through education, and project support, he is helping to drive the adoption of wood-based solutions in modern construction.

Mass Timber, Sustainability and 2020 NBCC Provisions

As the construction industry seeks sustainable solutions to reduce carbon emissions, mass timber has emerged as a key player in low-carbon building. This presentation will introduce mass timber as a structural material and explore its role in mitigating climate change through carbon sequestration and reduced embodied carbon. We will examine the distinctions between embodied and operational carbon, the unique benefits of biogenic carbon in wood-based construction, and the latest provisions in the 2020 National Building Code of Canada (NBCC) related to Encapsulated Mass Timber Construction (EMTC). Additionally, we will discuss national and municipal initiatives aimed at carbon reduction, highlighting how mass wood can contribute to achieving sustainability goals in the built environment.

Luminita (Lumi) Dumitrascu

Mechanical Engineer and Civil Engineering Technologist with extensive experience in project management, design, and field engineering. He earned his Mechanical Engineering degree from UNIFEI, a renowned university in Brazil, and later obtained a Civil Engineering Technologist diploma from the New Brunswick Community College in Moncton.

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Andres Gallardo

Andres Gallardo is a Research Associate at the National Research Council Canada's Construction Research Centre, within the Integrated Building Performance Group. His work supports the development of building codes, with a focus on Part 3 buildings (NECB). He specializes in building performance simulation to assess the energy and environmental impacts of commercial buildings and to evaluate decarbonization strategies. His research interests include Urban Building Energy Modeling, thermal energy storage applications, thermal comfort, and GHG emissions accounting.

Presentation Title: The Future of Building Energy Codes: Key Updates for 2025 and Beyond

The NRC presentation will explore the evolving landscape of building energy codes and greenhouse gas (GHG) emission requirements in Canada. It will provide an overview of key changes in the 2025 National Energy Code of Canada for Buildings (NECB) and the National Building Code (NBC), including new tiered performance requirements for operational GHG emissions, energy efficiency provisions for existing buildings, and the introduction of an Energy Use Intensity (EUI) metric-based compliance approach.

Looking ahead, the presentation will cover expectations for the 2030 codes, discussing policy and technical considerations such as embodied GHG emissions, revised emissions factors, and renewable energy integration. It will also examine the impact of Energy Performance Tiers 2 and 3 on the New Brunswick construction industry, highlighting the technological and envelope solutions required for compliance.

Finally, we will provide insights into the operational GHG emissions performance levels that can be naturally achieved under current construction practices in New Brunswick.