



Canada-EU Workshop on Energy Efficiency

Future-Proofing Buildings, Preparing the Workforce, and Creating Energy Smart Cities

March 3-4, 2020

Camsell Hall, 580 Booth Street, Natural Resources Canada
Ottawa, Canada

Workshop Agenda

Master of Ceremonies: *Cynthia Shelswell, Manager, Strategic Partnerships, Office of Energy Efficiency, Natural Resources Canada*

Tuesday, March 3, 2020

8:30 am – 9:00 am **Welcome and Registration**

Opening Remarks

- 9:00 am – 9:30 am
- *Mollie Johnson, Assistant Deputy Minister, Low Carbon Energy Sector, Natural Resources Canada*
 - *Klaus-Dieter Borchardt, Deputy Director General, European Commission*

Overview of Governance Matters Related to Buildings

9:30 am – 10:00 am This session will provide an overview of the governance and policy landscapes of energy efficiency in buildings and housing in Canada and the European Union to set the stage for conversations at the workshop.

- *Paula Rey Garcia, Team Leader- Energy Efficiency in Buildings, Directorate General for Energy, European Commission*
 - *Joyce Henry, Director General, Office of Energy Efficiency, Natural Resources Canada*
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Future-Proofing Buildings for All: Policy Landscapes and Opportunities in the EU

10:00 am – 10:45 am

During this session, the EU will outline the main objectives of the *EU Green Deal* and the recently adopted *Clean Energy for All Europeans*, with a focus on the *Energy Performance of Buildings Directive* and the challenges of adapting the building stock to the impacts of climate change.

- *Paula Rey Garcia, Team Leader- Energy Efficiency in Buildings, Directorate General for Energy, European Commission*
- **Chair:** *Abla Hanna, Senior Director, Office of Energy Efficiency, Natural Resources Canada*

10:45 am – 11:15 am **Health Break**

Future-Proofing Buildings for All: National Perspectives – Case Studies from European Countries

11:15 am – 12:30 pm

This session will focus on how EU Member States are implementing the legislative changes discussed in the previous session. Topics of discussion will include barriers, risk assessment tools, and support structures which the EU and national levels offer to local level. EU national experts will address questions such as:

- How to align long-term renovation strategies to the 2050 target of a highly efficient and decarbonised building stock and enable deep renovation?
 - How to move towards deep renovation: adapt nZEB to renovation, and how to “industrialise” building renovation?
 - How to use finance to stimulate deep renovation, including existing funding mechanisms?
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- *Chris Hughes, Program Manager, Sustainable Energy Authority of Ireland*
 - *Rui Fragoso, Head of Building Sector, ADENE Energy Agency, Portugal*
 - *Yves-Laurent Sapoval, Conseiller du Directeur de l'Habitat, de l'Urbanisme de des Paysages au Ministère du logement et de l'habitat durable, France*
 - *Rüdiger Lohse, Head of contracting, KEA Climate Protection and Energy Agency Baden-Württemberg, Germany*
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Chair: *Oliver Rapf, Executive Director, Buildings Performance Institute Europe (BPIE)*

Working Lunch – British Columbia’s Building Decarbonisation Strategy

12:30 pm – 1:45 pm

- *Nathaniel Gosman, Executive Director, Built Environment, Electricity and Alternative Energy Division, British Columbia Ministry of Energy, Mines and Petroleum Resources*
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Breakout Sessions: Future-Proofing Buildings for All

1:45 pm – 3:15 pm

To facilitate constructive dialogue and exchange of ideas, participants will be invited to interact with the morning presenters to discuss specific topics of interest.

3:15 pm – 3:30 pm

Health Break

Preparing the Workforce to Build a Highly Efficient and Decarbonised Building Stock

Training the workforce to deliver energy efficiency is a key element of the transition towards a low-carbon economy. This session will focus on how Canada and the European Union are designing and introducing training and re-training programs to transition to a low-carbon economy.

3:30 pm – 5:00 pm

- *Stijn Verbeke, Senior Researcher, Energy Performance of Buildings, EnergyVille/VITO & University of Antwerp, Belgium*
- *Mariangiola Fabbri, Head of Research, Buildings Performance Institute Europe (BPIE)*
- *Brent Gilmour, Chief Commercial Officer, Canada Green Building Council*
- *Corey Diamond, Executive Director, and Natalie Irwin, Director of Stakeholder Engagement, Efficiency Canada*

Chair: *Joyce Henry, Director General, Office of Energy Efficiency, Natural Resources Canada*

8:30 am – 9:00 am **Registration**

Welcoming Remarks

9:00 am – 9:15 am

- *Joyce Henry, Director General, Office of Energy Efficiency, Natural Resources Canada*
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Opportunities in Energy Data Analysis

This session will provide an overview of energy end use data analysis conducted by the Office of Energy Efficiency at Natural Resources Canada. The MyHeat case study will be discussed to showcase how energy data is supporting nudge theory to incentivize energy efficiency upgrades. A representative from the US EPA will discuss how the ENERGY STAR® Commercial Buildings Benchmarking tool is driving energy efficiency improvements.

9:15 am – 10:15 am

- *Dr. Monika Forgo, Chief of Energy Efficiency Market Analysis, Office of Energy Efficiency*
- *Dr. Maya Papineau, Assistant Professor, Carleton University*
- *Michael Zatz, Chief, Market Sectors Group, ENERGY STAR Commercial & Industrial Branch, U.S. Environmental Protection Agency*

Chair: *Kiran Alwani, Policy Analyst, Office of Energy Efficiency, Natural Resources Canada*

10:15 am – 10:45 am **Health Break**

Smart Cities and the Importance of Buildings as Smart Energy Hubs

10:45 am – 12:15 pm

The session will discuss initiatives to develop and implement smart building concepts, including the concept of smart cities and smart buildings (including the Smart Readiness Indicator), as well as

examples from Canadian and European regions and cities to explore solutions to create energy positive, net zero energy urban neighbourhoods.

- *Dr. Ursula Eicker, Excellence Research Chair in Smart, Sustainable and Resilient Communities and Cities, Concordia University*
- *Stijn Verbeke, Senior Researcher, Energy Performance of Buildings, EnergyVille/VITO & University of Antwerp, Belgium*
- *Rüdiger Lohse, Head of Contracting, KEA Climate Protection and Energy Agency Baden-Württemberg, Germany*
- *Julia Langer, CEO, The Atmospheric Fund*
- *Jenny Tremblay, Director General, Smart Cities Directorate, Infrastructure Canada*

Chair: *Mariangiola Fabbri, Head of Research, Buildings Performance Institute Europe (BPIE)*

Working Lunch – Initiatives to Transform the Buildings Stock

12:15 pm – 1:30 pm

- *Rui Fragoso, Head of Building Sector, ADENE Energy Agency, Portugal*

The Role of Local Governments

This session will discuss the importance of cities in supporting the energy transition and meeting climate goals, as well as challenges in implementing them.

1:30 pm – 2:45 pm

- *Stijn Verbeke, Senior Researcher, Energy Performance of Buildings, EnergyVille/VITO & University of Antwerp, Belgium*
- *Rüdiger Lohse, Head of Contracting, KEA Climate Protection and Energy Agency Baden-Württemberg, Germany*
- *Dr. Ursula Eicker, Excellence Research Chair in Smart, Sustainable and Resilient Communities and Cities, Concordia University*
- *Micah Lang, Senior Green Building Planner, City of Vancouver*
- *Chris Boivin, Managing Director of the Green Municipal Fund, Federation of Canadian Municipalities*

Chair: *Frank Mischler, Policy Advisor - Climate Action, GIZ*

2:45 pm – 3:15 pm

Health Break

3:15 pm – 4:30 pm

Wrap-Up Session: What We Can Transfer to the Canadian Context and Next Steps

This interactive session will provide an opportunity for workshop participants to ask any outstanding questions to the EU or Canadian representatives, and discuss how the EU's experience can be transferred to the Canadian context.

- *Abla Hanna, Senior Director, Office of Energy Efficiency, Natural Resources Canada*
 - *Oliver Rapf, Executive Director, Buildings Performance Institute Europe (BPIE)*
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4:30 pm – 5:00 pm

Key Messages and Closing Remarks

- *Paula Rey Garcia, Team Leader- Energy Efficiency in Buildings, Directorate General for Energy, European Commission*
 - *Joyce Henry, Director General, Office of Energy Efficiency, Natural Resources Canada*
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