

Pathways to Net-Zero Buildings: Accelerating deep retrofits

AGENDA

Sandman Hotel Vancouver City Centre, 180 West Georgia Street, Vancouver, B.C.
Monday, November 28 & Tuesday, November 29, 2016

Objectives

1. Confirm regulatory roadmap to net-zero ready buildings in B.C. (building code schedule, role of energy step code, and integration between BC-CLP and Federal Pan-Canadian Framework objectives)
2. Provide policy recommendations for a national and provincial retrofit strategy, including retrofit codes
3. Clarify major drivers to accelerate retrofits and identify key players to unlock that potential

DAY 1 AM	Pathways to net-zero energy ready (NZEr) for NEW buildings
7:45	Registration & breakfast
8:30	Opening remarks Josha MacNab, Pembina Institute Hanne Selby, Board of Governors Real Estate Foundation of B.C.
8:45	Table Discussion: Introductions & Objectives
9:10	Panel: Pathways to NZEr Patricia Fuller, Director General at NRCan's Office of Energy Efficiency: <i>Pan-Canadian Framework's vision for buildings in Canada</i> Jarrett Hutchinson Executive Director, BSSB: <i>Proposed pathway to net-zero ready for new homes and buildings</i> Sean Pander, City of Vancouver: <i>Catalyzing transition to low carbon buildings in Vancouver</i> Q&A
10:10	Break
10:30	Table Discussion I: Reaction to pathway to net zero ready <ul style="list-style-type: none"> • Strengths, weaknesses, opportunities and threats of the proposed strategy • How can we catalyze market leapfrogging to high performance?
11:30	Plenary: Testing overall level of confidence with proposed approach
12:00	Lunch

PM	Pathways to deep retrofits for EXISTING buildings		
1:00 pm	<p>Presentations</p> <p>Patricia Fuller, NRCan OEE: <i>Towards a federal retrofit strategy for existing buildings</i></p> <p>Tom-Pierre Frappé-Sénéclauze, Pembina Institute: <i>Retrofit targets and pathways for deep reductions</i></p> <p>Pecha Kucha: Transformative ideas for deep retrofits</p> <p>Martha Campbell, RMI: <i>Realize: pooling MURBs to unlock R&D potential</i></p> <p>Jensen Thor, PICS-Sauder: <i>Why PACE can do more than cheap money</i></p> <p>Rob Harmon, MEETS coalition: <i>Metered Energy Efficiency Transaction System</i></p>		
2:10	Breakout Session I		
	<p>Strategies for MURB retrofits</p> <p>Tony Gioventu, CHOA: <i>Opportunities and challenges in B.C. MURBs</i></p> <p>Bryan Purcell, The Atmospheric Fund: <i>Game-changing heat pump technologies and incentive pilot</i></p>	<p>Strategies for one and two family dwelling retrofits</p> <p>Tracy Cassavant, Lighthouse: <i>Strategies for retrofit of homes</i></p> <p>Scott Kennedy, Passive House Canada: <i>Sequenced retrofits: how to reach deep reductions, one upgrade at a time</i></p>	<p>Strategies for commercial/institutional retrofits</p> <p>Dave Ramslie, Integral: <i>Commercial building roadmap</i></p> <p>Duane Jonlin, City of Seattle: <i>8 strategies for existing building energy use</i></p>
3:15	Break		
4:40	Rapporteurs and closing remarks		
5:00-7:30	Reception at Moxie's Grill and Bar (in the hotel)		

DAY 2 AM	Pathways to deep retrofits for EXISTING buildings (con't)		
7:45	Breakfast		
8:30	<p>Opening remarks</p> <p>Richard MacIntosh, North American Energy and Sustainability Director, TD account at Brookfield: <i>Review of day 1 and industry leadership</i></p> <p>Joshua MacNab, Pembina Institute: <i>Structure of day 2</i></p>		
8:45	Options for retrofit regulations		

	<p>Andrew Pape-Salmon, RDH: <i>Options for retrofit regulations at time of renovation</i></p> <p>Dave Ramslie, Integral: <i>Building Energy Performance Standard (BEPS)</i></p> <p>Patrick Ryan, CBO & Kelly Anderson, manager of building permit reviewers, City of Vancouver: <i>Enforcing energy codes at time of retrofits: Vancouver's learning curve</i></p> <p>Q&A</p>		
9:45	<p>Table Discussion: Design and phasing of retrofit regulations</p> <ul style="list-style-type: none"> • Conditions for success 		
10:30	Break		
10:50	Breakout Session II		
	<p>Innovation for deep retrofits in social housing</p> <p>Martha Campbell, RMI: <i>Key characteristics of supply-side offer</i></p> <p>Andrew Pape-Salmon, RDH & Robert Pennings, Stadsruim: <i>Local and european solutions to deep MURB retrofit</i></p> <p>Ian Cullis, BC-NPHA: <i>Opportunities in B.C. social housing</i></p>	<p>LIC financing and one-stop shops</p> <p>Vivian Chung, TAF: <i>Lessons learned from Toronto LIC program</i></p> <p>Thor Jensen: <i>Conditions for a successful residential PACE program</i></p>	<p>Unlocking investments in energy efficiency</p> <p>Tim Mosley, BC Hydro: <i>BC Hydro's viewpoint on financing</i></p> <p>Rob Harmon, MEETS coalition: <i>Aligning incentives between investors, owners, and utilities</i></p>
12:30	Lunch		
PM	Moving to Action		
1:30	Plenary: Report back from breakouts		
2:00	<p>Caucuses: Testing regulatory proposals: Conditions for success</p> <ul style="list-style-type: none"> Industry: Operation & management Industry: Development Industry: Design Industry: Construction Industry: Manufacturing and supply-chain Research and education Local governments and utilities Provincial government 		
2:45	Break		
3:00	<p>Plenary: Towards a comprehensive retrofit strategy</p> <ul style="list-style-type: none"> • Test agreement and level of confidence for key elements of a retrofit strategy 		
3:40	<p>Closing Remarks</p> <p>Patricia Fuller, NRCan OEE</p> <p>Jarrett Hutchinson, BSSB</p> <p>Tom Berkhout, MEM</p>		
4:00	Adjourn		