

## Panel 10: New Construction: From Codes to Net Zero (Room: MARLIN)

**PANEL LEADERS: Andrea Mengual, Pacific Northwest National Laboratory and Debbie Driscoll, Northwest Energy Efficiency Alliance**

| DATE            | SESSION  | TITLE   | LEAD AUTHOR, ORGANIZATION                                      |
|-----------------|--|---|--|
| <b>Mon 8/5</b>  | <b>Session 1</b><br><b>8:30 - 10:00 am</b>   | <i>Paths to Zero: Creating a National Zero Carbon Emissions Building Definition</i>   | Hayes Jones,<br>National Renewable Energy Laboratory           |
|                 | Decoding the Carbon Conundrum: Operational and Embodied Carbon Insights                                  | <i>Comprehensive Embodied Carbon Policy Development in the Upper Midwest</i>  | Richard Graves,<br>Center for Sustainable Building Research    |
|                 |  | <i>Finding the Right Balance Beam: Examining Optimum Insulation Levels in Light of Uncertainty in Energy Costs and Carbon Emissions</i>       | Mohamed Abdelsalam,<br>ICF                                     |
|                 | <b>Session 2</b><br><b>10:30 am - 12:00 pm</b>   | <i>Prescriptive Codes and Implications on Building Energy Use Variation</i>   | Molly Curtz,<br>Pacific Northwest National Laboratory          |
|                 | Taking a Fresh Look at Performance and Prescriptive Code Approaches                                      | <i>Efficiency First: Minnesota's approach to push the limits of efficiency and narrow the efficiency gap in achieving net zero code goals</i> | Carl Nelson,<br>Center for Energy and Environment              |
|                 |  | <i>Buildings of Excellence: Driving Equitable and Climate Resilient Multi-family Housing Across New York State</i>                            | Nathaniel Heckman,<br>Resource Refocus                         |
| <b>Tues 8/6</b> | <b>Session 1</b><br><b>8:30 - 10:00 am</b>   | <i>A Radical Rethink on Building Energy Codes: The G20 Experience</i>   | Akash Goenka, Alliance for an Energy Efficient Economy         |
|                 | Innovations in Building Codes: Global Perspectives and Local Impact                                      | <i>Impact of electrification reach codes on residential new construction projects</i>   | Melissa Kosla,<br>ADM Associates                               |
|                 |  | <i>The New York Stretch Energy Code: A Convergence of Opportunity</i>   | Ben Edwards, NORESKO   |
|                 | <b>Session 2</b><br><b>10:30 am - 12:00 pm</b>   | <i>Come Together: How the New National Energy Codes Collaborative is Supporting States and Cities Implementing Updated Energy Codes</i>       | Mike Waite,<br>ACEEE   |
|                 | Establishing Collaborative Networks for Effective Energy Code Implementation (no papers in this session) | <i>From Development to Enforcement: Leveraging Technical Assistance to Meet Energy Code Goals</i>   | Kim Cheslak,<br>Pacific Northwest National Laboratory          |
|                 |  | <i>Power of Partnership: Promoting Equity through Collaborative Energy Code Efforts in the Southeast</i>                                      | Maggie Kelley Riggins,<br>Southeast Energy Efficiency Alliance |
|                 |  | <i>Navigating Code Advancement in a Diverse Localized Ecosystem</i>   | Adam Berry, Colorado Energy Office                             |

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| Wed 8/7   | <b>Session 1</b><br><b>8:30 - 10:00 am</b><br>High Performance in New and Existing Buildings: Harmonizing Energy Codes and Building Performance                       | <i>Bridging the Gap: Aligning Building Energy Codes with Existing Building Performance Standards</i>  | Michael Tillou,<br>Pacific Northwest National Laboratory |
|           |   | <i>Performance Based Approaches to Energy Codes and BPS – Results of Jurisdiction Pilots</i>  | Kim Cheslak,<br>Pacific Northwest National Laboratory    |
|           |   | <i>A Win-Win Strategy: Municipality and Utility Partnership on Advanced Building Policy Market Transformation</i>                                       | Jeannette LeZaks,<br>Slipstream                          |
|           | <b>Session 2</b><br><b>10:30 am - 12:00 pm</b><br>Scaling Up Sustainability: Off-site Construction, Data-driven Design, and Code Innovation for a Decarbonized Future | <i>21st Century Compliance: Data-Driven Solutions for Decarbonization and Equity</i>  | Ben Lalor,<br>NORESKO                                    |
|           |   | <i>Out of Site! Lessons Learned from Alternative Approaches to Evaluating the Market’s Response to Code Changes</i>                                     | Meghan Bean,<br>Northwest Energy Efficiency Alliance     |
|           |   | <i>Compliance Journeys: Using a Stock-based Modeling Approach to Analyze Maryland’s Proposed Statewide Building Performance Standards</i>               | David Pudleiner,<br>ICF                                  |
| Thurs 8/8 | <b>Session 1</b><br><b>8:30 - 10:00 am</b><br>From Codes to Communities: Building an Equitable Future   | <i>Code and Communities: Opportunities to Incorporate Equity Into Building Energy Codes</i>   | Bahareh van Boekhold,<br>ILLUME Advising                 |
|           |   | <i>Do Stronger Energy Codes Move Development to Neighboring Jurisdictions?</i>  | Alison Lindburg,<br>Midwest Energy Efficiency Alliance   |
|           |   | <i>Energy Codes, Home Size, and Equity</i>  | Kevin Rose, Northwest Energy Efficiency Alliance         |
|           | <b>Session 2</b><br><b>10:30 am - 12:00 pm</b><br>Building for All: How Codes and Programs are Shaping Residential  | <i>The Rent is Too D*** High! Cost-Effective Ways to Reduce Upfront and Long-term Costs for Residential New Construction and Simplify Participation</i> | Julian Ricardo,<br>NMR Group                             |
|           |   | <i>Moving to All-Electric Residential New Construction Programs</i>   | Nick Jones, Eversource                                   |
|           |   | <i>Codes, Mortgages, and Equity</i>   | Lowell Ungar, ACEEE                                      |

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| Fri 8/9 | <p><b>Session 1</b><br/>8:30 - 10:00 am</p>  | <p><i>Beat the peak - Mitigating electric peak demand in all-electric new construction</i></p>   | <p>Philippe Beaudoin,<br/>Dunsky Energy + Climate Advisors</p>   |
|         | <p>Powering Progress:<br/>Energy Storage and<br/>Demand Management</p>   | <p><i>Making It Happen: Onsite Renewable Energy and Storage for Commercial Buildings</i></p>   | <p>Heather Goetsch,<br/>National Renewable Energy Laboratory</p> |
|         |  | <p><i>Residential Energy Management Systems: Market Trends and Future Growth</i></p>   | <p>Hannah Bastian,<br/>Guidehouse</p>                            |
|         | <p><b>Session 2</b><br/>10:30 am - 12:00 pm</p> <p>From Barriers to<br/>Breakthroughs:<br/>Navigating Legal<br/>Challenges and<br/>Roadblocks in<br/>Decarbonization</p> | <p><i>Energy Code Decarbonization Pathway to Accommodate the Ninth Circuit Court Ruling</i></p>  | <p>Shilpa Surana,<br/>2050 Partners</p>                          |
|         |  | <p><i>Unlocking the Path to Decarbonized Building Thermal Systems: Strategies for Designers and Contractors</i></p>  | <p>Paul Torcellini,<br/>National Renewable Energy Laboratory</p> |
|         |  | <p><i>Investigating the impacts of climate change on performance and resiliency of new construction multifamily Passive House buildings in Boston, Massachusetts</i></p> | <p>Ching-Wen Hsiao,<br/>New Ecology</p>                          |