

Panel 10: New Construction

Panel Leaders: **Katie Ackerly, David Baker Architects** and **Ian Finlayson, MA Department of Energy Resources**

DATE	SESSION	TITLE	LEAD AUTHOR, ORGANIZATION	
Mon 8/3	Session 1 8:30 am - 10:00 am	<i>Aligning Energy Codes and Building Performance Standards for an Outcome-Based Policy Structure</i>	Skye Gruen, ACEEE	
		<i>The Future of Building Codes and Carbon Emissions</i>	Ariel Brenner, New Buildings Institute	
	Where Do We Go from Here? Roadmaps for New Construction	<i>Advancing Energy Code Adoption: Roadmaps to Higher-Tier Performance</i>	Kaitlin Carlson, Dunsky	
	Session 2 10:30 am - 12:00 pm	<i>A New Code Compliance Support Strategy: Delivering Energy Savings Through Third-Party Plan Review</i>	Julia Wells, MNCEE	
		Solutions for Local Implementation	<i>Leveling the Playing Field at Scale: Low- and Zero-Fuel-Bias Code Development and Adoption</i>	Erin Sherman, Rocky Mountain Institute
			<i>Colorado's energy code environment: Driven by legislation, community desires, and the need for change</i>	Adam Berry, Colorado Energy Office
Tues 8/4	Session 1 8:30 am - 10:00 am	<i>Infill vs. Greenfield: Housing and Transportation Energy Tradeoffs</i>	Imran Sheikh	
		<i>Critical Mass: Scaling Passive House at Bunker Hill</i>	Andrew Steingiser, RDH	
	Mega-trend #1: Life-cycle Impact Reduction	<i>Charting the Carbon: Navigating Policies and Program Pathways for Embodied Carbon</i>	Derek Okada, Energy Solutions	
	Session 2 10:30 am - 12:00 pm	<i>Low and Flat: Market Transformation to Reduce Peak Load and Increase Resilience</i>	ML Vidas, CLEAResult	
		Mega-trend #2: Grid-friendly by Design	<i>Emerging Solutions: Using Power Efficient Design to Scale Building Electrification</i>	Brenden McEwen, Dunsky
			<i>TBD</i>	
Wed 8/5	Session 1 8:30 am - 10:00 am	<i>Energy Impacts and Documentation of Thermal Bridges in ASHRAE 90.1-2022</i>	Paula Zimin, Pacific Northwest National Laboratory	
			<i>TBD</i>	
	New Metrics to Align Compliance with Performance	<i>TBD</i>		

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Wed 8/5	Session 2 10:30 am - 12:00 pm	<i>Road to Making Phius the Energy Code Requirement in Massachusetts</i>	Isaac Elnecave, Phius
	From Impressive to Impassive: Energy Code Meets Passive House	<i>Right on Target: Developing a Prescriptive Net Zero Model Commercial Energy Code</i>	Michael Waite, MBW Energy
		<i>A Modeling Crosswalk: Recognizing Passive House Performance within California Title 24</i>	Rebecca Evans, Frontier Energy
Thurs 8/6	Session 1 8:30 am - 10:00 am	<i>Going Rogue: Balancing High Performance Design with Practical Applications</i>	Logan Smith, Go Sustainable Energy
	The Theory Meets Practice in Big Buildings and Cities	<i>Traversing the Winter Heat Island to a more efficient heat pump landscape: An exploration of urban microclimate analysis to inform city-scale system downsizing</i>	Lino Sanchez, UC Berkeley
		<i>Empowering Decarbonization Through Post-Construction Monitoring</i>	Ellen Richer, Eversource
	Session 2 10:30 am - 12:00 pm	<i>Evaluation of Central Heat Pump Water Heater System Temperature Maintenance Methods for Multifamily Buildings</i>	Mehdi Zeyghami, Pacific Gas & Electric Company
	Technologies that Unlock Whole-Building Energy Optimization	<i>Techno-economic feasibility of utility-led networked geothermal systems for a new residential development</i>	Kaushik Biswas, Gas Technology Institute
		<i>Optimizing Heat Recovery with Storage: Control Validation and Sensitivity Analysis of the Time-Independent Energy Recovery Plant Using Modelica</i>	Ettore Zanetti, Lawrence Berkeley National Laboratory
Fri 8/7	Session 1 8:30 am - 10:00 am	<i>Developing a Pathway for Net Zero Energy and Carbon Residential Codes</i>	Steve Nadel, ACEEE
	Are You Ready for a Step Change in Residential Performance?	<i>When Success Becomes Invisible: Reframing New Homes Programs as Building Codes Advance</i>	Dulane Moran, Evergreen Economics
		<i>Stairstep - A Cost and Energy Comparison of Energy Star, DOE ZERH, and Phius Certification for a Multifamily Building in Climate Zone 6</i>	Rolf Jacobson, University of Minnesota
	Session 2 10:30 am - 12:00 pm	<i>Forging Partnerships at the Interface of Decarbonization and Affordable Housing</i>	Scott Salyer, Sonoma Clean Power
	Accelerating Progress in Exurban and Rural Contexts	<i>Rural Rules: Energy Code Implementation in Vermont and Colorado</i>	Zack Tyler, Energy Futures Group
		<i>To Fee or Not to Fee: Exploring Opportunities to Disincentive Natural Gas in Residential New Construction</i>	Danielle Walker, Brightline Group