

PANEL 5: SCALING WHOLE BUILDING RETROFITS

(Meeting Room: Triton)

Panel Leaders: Martha Campbell and Heather Goetsch

MONDAY, AUGUST 22	SESSION 1 (8:30 - 10:00 am) - Martha Campbell	TUESDAY, AUGUST 23	SESSION 1 (8:30 - 10:00 am) - Martha Campbell
	Perspectives in Financing Retrofits		Scaling Multifamily Retrofits
	<i>Pathways to Home Decarbonization</i>		<i>A Case Study Modeling Barriers and Opportunities for Multifamily Electrification Retrofits</i>
	<i>Presented by: Brennan Less, Lawrence Berkeley National Laboratory (Lead Author: Iain Walker, Lawrence Berkeley National Laboratory)</i>		<i>Rhys Davis, Resource Refocus</i>
	Financing Energy Improvements in the Mortgage		Early Designs and Deep Retrofits: Meeting Affordable Multifamily Organizations with Useful Technical Services
	<i>Richard Faesy, Energy Futures Group</i>		<i>Alex Novie, Energy Trust of Oregon</i>
	Better Bang for Your Buck? Comparing Savings Realization from ESPCs and Direct-funded Projects		Making Naturally Occurring Affordable Housing More Efficient: Outreach to Upgrade
<i>Shankar Earni, Lawrence Berkeley National Laboratory</i>	<i>Abigail Corso, Elevate</i>		
SESSION 2 (10:30 am - 12:00 pm) - Heather Goetsch	SESSION 2 (10:30 am - 12:00 pm) - Martha Campbell		
Unlocking Commercial Building Decarbonization	Equitable Approaches to Whole Building Retrofits		
Designer Interviews: Key Findings on Boiler Retrofits and Electrification in Existing Buildings	Whole-Home Retrofit Approaches for Health and Equity		
<i>Emily Lamon, University of California, Berkeley</i>	<i>Yu Ann Tan, RMI</i>		
Decarbonizing Large Buildings: Overcoming Barriers and Supporting Market Advancement	Consumer Outcomes in Residential Pay-As-You-Save Programs		
<i>Karine Cazorla, Dunsky Energy + Climate Advisors</i>	<i>Jeff Deason, Lawrence Berkeley National Laboratory</i>		
Better, Cheaper, Faster, Stronger: A New Data Collection Campaign to Capture the Benefits of Industrialized Construction Approaches for Whole Building Retrofits	Equity Focused Minnesota Workforce Development Pilot		
<i>Aven Satre-Meloy, Lawrence Berkeley National Laboratory</i>	<i>Sarah Northrup, Center for Energy and Environment</i>		

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WEDNESDAY, AUGUST 24	SESSION 1 (8:30 - 10:00 am) - Heather Goetsch	THURSDAY, AUGUST 25	SESSION 1 (8:30 - 10:00 am) - Heather Goetscho
	Aggregation Models for Retrofits		Advancing Retrofit Technologies
	<i>Planning for Portfolio-wide Net Zero Energy Existing Buildings (ZEEB) on a Budget</i> David Kaiser, City of Alexandria, VA		<i>A Deep Dive into Air Sealing Best Practices and Market Potential</i> Brigid O'Connor, Summerhill Group, Inc.
	<i>Taking Down Barriers – Deploying a BEM-Based Approach to Promote Energy Efficiency and Decarbonization in the Existing Residential Sector</i> Mudit Saxena, Vistar Energy Inc./XeroHome		<i>Digitalization of Deep Wall Retrofits: An Integrated Insulated Panel Block (PB) System and Process</i> Kurt Roth, Fraunhofer USA
	<i>Systems Retrofits for All: Utility Incentive Programs to Accelerate the Deployment of Systems Packages</i> Cindy Regnier, Lawrence Berkeley National Laboratory		<i>Best Practices from the Field: Air-to-Water Heat Pump Combi Systems</i> Jason LaFleur, GTI Energy
	SESSION 2 (10:30 am - 12:00 pm) - Heather Goetsch		SESSION 2 (10:30 am - 12:00 pm) - Martha Campbell
	Leveraging Data to Catalyze Adoption of Whole Building Retrofits		Transforming the Market for Retrofits
<i>Scaling Audits through Machine Learning Methods on Novel Image Data</i> Reshma Singh, Lawrence Berkeley National Laboratory	<i>Closing the Code Gap: Best Practices for Existing Building Energy Codes</i> Lauren McNutt, Dunsy Energy + Climate Advisors		
<i>Leveraging Standard Data Models to Streamline Whole Building Retrofits</i> Richard Andrulis, Performance Systems Development	<i>Creating Regional Ecosystems for Scalable, Low-carbon Whole-building Retrofits</i> Patty Kappaz, Allegheny Science & Technology		
<i>Meter-Based Targeting for Beneficial Electrification at Scale</i> Mia Oppelstrup, Recurve Analytics	<i>It Takes a Platform: Creating an Ecosystem to Drive Energy Efficiency</i> Robin LeBaron, Pearl Certification		

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FRIDAY, AUGUST 26	SESSION 1 (8:30 - 10:00 am) - Heather Goetsch
	Decarbonizing Tall Buildings
	<i>An All-electric Passive House Renovation of an 100-year Old Skyscraper: Lessons Learned</i>
	<i>Cecil Scheib, New York University</i>
	<i>Scaling Tall Building Decarb in the Biggest US Market</i>
	<i>Adam Hinge, Sustainable Energy Partnerships</i>
	<i>Decarbonization Packages for NYC Office Buildings</i>
	<i>Helen Chananie, Building Energy Exchange</i>
	SESSION 2 (10:30 am - 12:00 pm) - Martha Campbell
	Compressing Costs and Extracting Value to Scale Whole Building Retrofits
<i>The Costs of Home Decarbonization</i>	
<i>Iain Walker, Lawrence Berkeley National Laboratory</i>	
<i>Electrofit Cost Effectiveness, Policymaking, and Financing Approaches for Local Agencies</i>	
<i>Farhad Farahmand, TRC</i>	
<i>Heat Pumps with Phase Change Thermal Storage: Flexible, Efficient, and Electrification Friendly</i>	
<i>Dre Helmns, Lawrence Berkeley National Laboratory (drehelmns@lbl.gov)</i>	
<i>Game Changing Technology for Retrofit Application: 120V HPWHs</i>	
<i>Amruta Khanolkar, New Buildings Institute</i>	