

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)	TUESDAY, AUGUST 23	SESSION 1 (8:30 - 10:00 am)
	Decarbonizing Tall Buildings		Scaling Multifamily Retrofits
	<i>An All-electric Passive House Renovation of an 100-year Old Skyscraper: Lessons Learned</i> Cecil Scheib, New York University		<i>A Case Study Modeling Barriers and Opportunities for Multifamily Electrification Retrofits</i> Rhys Davis, Resource Refocus
	<i>Scaling Tall Building Decarb in the Biggest US Market</i> Adam Hinge, Sustainable Energy Partnerships		<i>Early Designs and Deep Retrofits: Meeting Affordable Multifamily Organizations with Useful Technical Services</i> Alex Novie, Energy Trust of Oregon
	<i>Decarbonization Packages for NYC Office Buildings</i> Helen Chananie, Building Energy Exchange		<i>Making Naturally Occurring Affordable Housing More Efficient: Outreach to Upgrade</i> Abigail Corso, Elevate
	SESSION 2 (10:30 am - 12:00 pm)		SESSION 2 (10:30 am - 12:00 pm)
	Unlocking Commercial Building Decarbonization		Equitable Approaches to Whole Building Retrofits
<i>Designer Interviews: Key Findings on Boiler Retrofits and Electrification in Existing Buildings</i> Emily Lamon, University of California, Berkeley	<i>Whole-Home Retrofit Approaches for Health and Equity</i> Yu Ann Tan, RMI		
<i>Pathways to Home Decarbonization</i> Presented by: Brennan Less, Lawrence Berkeley National Laboratory (Lead Author: Iain Walker, Lawrence Berkeley National Laboratory)	<i>Consumer Outcomes in Residential Pay-As-You-Save Programs</i> Jeff Deason, Lawrence Berkeley National Laboratory		
<i>Decarbonizing Large Buildings: Overcoming Barriers and Supporting Market Advancement</i> Karine Cazorla, Dunsy Energy + Climate Advisors	<i>Equity Focused Minnesota Workforce Development Pilot</i> Sarah Northrup, Center for Energy and Environment		

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WEDNESDAY, AUGUST 24	SESSION 1 (8:30 - 10:00 am)	THURSDAY, AUGUST 25	SESSION 1 (8:30 - 10:00 am)
	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>Meter-Based Targeting for Beneficial Electrification at Scale</i> Mia Oppelstrup, Recurve Analytics		<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)	Leveraging Data to Catalyze Adoption of Whole Building Retrofits	SESSION 2 (10:30 am - 12:00 pm)	Transforming the Market for Retrofits
<i>Scaling Audits through Machine Learning Methods on Novel Image Data</i> Reshma Singh, Lawrence Berkeley National Laboratory	<i>Better, Cheaper, Faster, Sstronger: A New Data Collection Campaign to Capture the Benefits of Industrialized Construction Approaches for Whole Building Retrofits</i> Aven Satre-Meloy, Lawrence Berkeley National Laboratory	<i>Closing the Code Gap: Best Practices for Existing Building Energy Codes</i> Lauren McNutt, Dunsky Energy + Climate Advisors	<i>Creating Regional Ecosystems for Scalable, Low-carbon Whole-building Retrofits</i> Patty Kappaz, Allegheny Science & Technology
<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>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)
	Perspectives in Financing Retrofits
	<i>Electrofit Cost Effectiveness, Policymaking, and Financing Approaches for Local Agencies</i>
	<i>Farhad Farahmand, TRC</i>
	<i>Financing Energy Improvements in the Mortgage</i>
	<i>Richard Faesy, Energy Futures Group</i>
	<i>Better Bang for Your Buck? Comparing Savings Realization from ESPCs and Direct-funded Projects</i>
	<i>Shankar Earni, Lawrence Berkeley National Laboratory</i>
	SESSION 2 (10:30 am - 12:00 pm)
	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>Energy Efficiency as a Service: An Emerging Tool for Utilities to Reach Deeper Savings in Buildings</i>	
<i>Nick Henner, ACEEE</i>	
<i>Leveraging Standard Data Models to Streamline Whole Building Retrofits</i>	
<i>Richard Andrulis, Performance Systems Development</i>	