

Panel 2: Residential Buildings: Program Design, Implementation, and Evaluation

Panel Leaders: Amit Kulkarni, Eversource and Frank Rapley, TVA

DATE	SESSION	TITLE	LEAD AUTHOR, ORGANIZATION
Mon 8/3	Session 1 8:30 am - 10:00 am Cold Climate Heat Pumps	<i>How to Maximize Heat Pump Use in Cold Climates, A Comparative Assessment of Maine’s Residential Heat Pump Programs</i>	Lauren Scott, Efficiency Maine
		<i>Living with Heat Pumps: Customer Experiences with Hybrid and Cold Climate Heat Pumps in Washington and New Jersey</i>	Geoff Barker, DNV
		<i>Home Heating in Cold Climates: Synergistic Benefits of Advanced HVAC, Weatherization, and Grid-Responsive Controls</i>	Vrushali Mendon, Pacific Northwest National Laboratory
	Session 2 10:30 am - 12:00 pm Panel Upgrades	<i>Avoiding breaker panel upgrades with smart controls</i>	Levi Darian Reyes Premer, Purdue
		<i>Understanding real-world practices of circuit-breaker labeling in residential electrical panels</i>	Sadia Gul, UC Davis
		<i>Residential Electrical Service Capacity and Utilization of Electric Technologies (RESCUE-TECH)</i>	Sage Quinn, EPRI
Tues 8/4	Session 1 8:30 am - 10:00 am Air to Water Heat Pumps	<i>Qualitative Perspectives of Air to Water Heat Pumps in Multifamily Buildings</i>	Prathamesh Patil, Eversource
		<i>Case Study of Air to Water Heat Pump Installation in Southeastern Massachusetts brings together Utility, Contractor and Manufacturer</i>	David Korn, Ridgeline Analytics
		<i>Burying the Peak — Geothermal Heat Pumps for Peak Reduction, Resiliency, and Cost Savings</i>	Doug Presley, Anndyl
	Session 2 10:30 am - 12:00 pm Heat Pump Performance	<i>Field Performance of High-Performance High-Capacity Heat Pumps</i>	John Bush, OTS Energy
		<i>Results May Vary: Are Variable-Speed Heat Pumps Always Better?</i>	Chelsea Liddell, DNV
		<i>Mapping the Way to Higher Performing Heat Pumps</i>	Neal Kruis, Big Ladder Software
Wed 8/5	Session 1 8:30 am - 10:00 am Stakeholder Engagement	<i>Energy, Equity, and Evolution: Rethinking SEM to Scale Impact and Meet the Changing Demands of Multifamily Housing</i>	Kathleen Belkhaty, Energy Trust of Oregon
		<i>Equitable Electrification: Making Heat Pumps Work for Everyone</i>	Paul Francisco, Colorado State University
		<i>Equitable Electrification: Using Smarter Data for Affordable, Resilient Heat Pump Programs</i>	John Walczyk, Cadmus

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Wed 8/5	Session 2 10:30 am - 12:00 pm	<i>Putting all the Puzzle Pieces Together: Braiding, Categorical Eligibility, and other Approaches to Maximizing Benefits for Low-Income Customers from Multiple Offerings</i>	Amy Jewel, Elevate
	Program Funding (Braiding)	<i>Evaluation of funding opportunity for energy efficiency and electrification from non-pipeline alternatives</i>	Sean Smillie, Ethree
		<i>Reimagining Quality Installation in Residential Heat Pump Programs: An Analysis of Energy Savings and Value Propositions</i>	Abby Francisco, Apex Analytics
Thurs 8/6	Session 1 8:30 am - 10:00 am	<i>Packaged Window Pump insights in Income- Eligible Multifamily Programs</i>	Prathamesh Patil, Eversource
	Multifamily	<i>Data-Driven Decarbonization: Cost-Effective Strategies for Electrifying New York’s Multifamily Housing Stock</i>	Maruti Anumulapalli, ICF
		<i>Hybrid to Whole Home: Making Partial Heat Pumps a Step, Not a Stop</i>	Griffith Keating, nv5
	Session 2 10:30 am - 12:00 pm	<i>Counting Homes, Not Heads: Weatherization’s Hidden Opportunity</i>	Remya Kannan, Eversource
	Weatherization	<i>To Weatherize or Not to Weatherize: Should Residential Energy Efficiency Programs Prioritize Weatherization with Heat Pumps?</i>	Erin Cosgrove, NEEP
		<i>Estimating Air Sealing Potential without Blower Door Tests</i>	Jake Milette, Michaels Energy
Fri 8/7	Session 1 8:30 am - 10:00 am	<i>Heating Up the Market? Tracking Heat Pump Adoption and Costs</i>	Jerrad Pierce, NMR Group
	Program Strategies	<i>Change you can bill-ieve in. Electrification versus deep retrofits in low-income communities.</i>	Ethan Barquest, Verdant Associates
		<i>Community-Led Residential Energy Efficiency: A Holistic Approach to Home Energy Upgrades</i>	Lindsey Diercksen, LD Consulting
	Session 2 10:30 am - 12:00 pm	<i>Addressing Distribution Issues and Building Contractor Capacity to Achieve Central Heat pump Water Optimization</i>	Ashley Davis, AEA Clean Energy
	Heat Pump Water Heaters	<i>This Must Be The Place: Plug-in 120-volt Heat Pump Water Heater Retrofits and Associated Costs</i>	Joshua Butzbaugh, Pacific Northwest National Laboratory
		<i>Lessons from California’s large-scale deployment of efficient, flexible heat pump water heaters</i>	Emily Kehmeier, Energy Solutions