Panel 2: Residential Buildings: Program Design, Implementation, and Evaluation PANEL LEADERS: Amit Kulkarni, Eversource and Lauren Ross, US Department of Energy			
DATE	**SESSION**	**TITLE**	**LEAD AUTHOR, ORGANIZATION**
Mon 8/5	**Session 1** **8:30 - 10:00 am** Deploying High Performance, Cold-climate Heat Pumps	*Promoting heat pumps in cold climates: comparing strategies.*	Elizabeth Font, Cadeo Group
		Air Source Heat Pump (ASHP) Case Study – Presentation of In Situ Operational Performance	Peter Klint, Eversource
		Heat Pump Upgrades and their Impact on Household Peak Demand	Brennan Less, Lawrence Berkeley National Laboratory
	Session 2 **10:30 am - 12:00 pm** Effective Program Delivery for Low-income Households	*The New Retro – Leveraging IRA incentives in designing home retrofit programs for low-income and beyond*	Joe Schambach, ICF
		Massachusetts' "Solar Access Program": Design, Implementation and Savings Results for Residential Retrofits Serving Lower Income Homeowners	Gabrielle Stebbins, Center for Sustainable Energy
		Heat Pump Buyers Be Wary: Weighing the Effects of Refrigerants	Rachel Murray, DNV
Tues 8/6	**Session 1** **8:30 - 10:00 am** Delivering Whole Building Retrofits in Affordable Multifamily	*La Mora Senior Apartments; The Ups and Downs of Building Passive House, Modular, Affordable Senior Housing*	Kara Magoolaghan, The Mulford Corporation
		Housing Sustainability Collaborative: Co-Creating Green Financing Solutions for Affordable Housing	Patrick Kelley, Housing Partnership Network
		Getting Past the Doorman: Key Challenges, Solutions, and Findings of a Determined Multifamily Baseline Study Team	Mitt Jones, NYSERDA
	Session 2 **10:30 am - 12:00 pm** Heat Pumps: Optimize for Performance, Cost, and the Environment	*Integrated approaches to reduce the cost and risk of low income rental decarbonization*	Richard Andrulis, Performance Systems Development
		Increasing Uptake of Residential HVAC Commissioning – The Time is Now	Christian Valoria, Pacific Northwest National Laboratory
		Cold hard facts: Contextualizing refrigerant leakage emissions under high residential building electrification	Jared Langevin, Lawrence Berkeley National Laboratory

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Wed 8/7	**Session 1** **8:30 - 10:00 am** Duel Fuel Systems and Integrated Controls for Heat Pumps in Colder Climates	*Fossil Fuel Displacement Strategies: How Partial Electrification Can Make Electric Run Buildings Feasible*	Rosibel Tavares, Kinetic Communities Consulting
		Getting Heat Pumps Under Control: The Success of the Heat Pump Revolution Requires Getting Heat Pump Sizing and Controls Right	Christian Douglass, Ptarmigan Consulting
		Not Your Parent's Heat Pump: Training and Tools to Size Heat Pumps for Heating	Christian Kaltreider, Pacific Northwest National Laboratory
	Session 2 **10:30 am - 12:00 pm** New Opportunities and Challenges in EM&V for Decarbonization	*Ready, set, go! Lessons Learned and Innovative Approaches to Capture the Benefits of the Transformational IRA programs.*	Danielle Walker, US Department of Energy
		Meeting Customers Where They're At... Literally: Virtual Verification as a Carbon-Friendly EM&V Tool for Residential Programs	Matt Rankins, Guidehouse
		Challenges and Performance from Seven Ducted Mini-Split Heat Pump Retrofits	Simon Pallin, Frontier Energy
Thurs 8/8	**Session 1** **8:30 - 10:00 am** Building Design and Technology to Decarbonize	*The Price is Right: Aligning Utility Incentives with Decarbonization Goals*	Ashley Muspratt, Center for EcoTechnology
		The design, advancement, prototyping and field testing of scalable technologies and strategies for manufactured homes to decarbonize	Agatha Kazdan, EPRI
		Defining the Electrical Panel Barrier to Residential Electrification	Douglas Lindsey, EPRI
	Session 2 **10:30 am - 12:00 pm** Making Heat Pumps Work for People: Recommendations for Program Design and Targeting	*Delivering Low Income Whole Home Retrofits: Consumption Based Targeting for Deep Energy Savings*	Bryce Dias, Pacific Gas & Electric Co.
		The Customer Bill Impacts of Efficient Building Electrification	Andrew Satchwell, Lawrence Berkeley National Laboratory
		Combining Energy Star's Brand Recognition with ResStock Modeling to Create a Go-To Heat Pump Savings Estimator	Dan Lawlor, EPA

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Fri 8/9	**Session 1** **8:30 - 10:00 am** Program Strategy Targeting for Electrification Readiness	*Avoiding Locking in Emission through Electrification Readiness*	Amy Dryden, Association for Energy Affordability
		Electrification Prognostication: A Data-Driven Approach to Predict the Carbon Offset of Ductless Mini-Split Heat Pumps	Patrick Hewlett, DNV
		The value of proactive customer targeting for meeting utility goals	Pranav Gupta, ICF
	Session 2 **10:30 am - 12:00 pm** Scaling Up Heat Pump Water Heaters	*Electrification of Centralized Water Heating in an Affordable Housing Community: Lessons Learned from a Pilot Demonstration*	Mazen Daher, EPRI
		Heat Pump Water Heaters - Taking the Emergency out of Emergency Water Heater Replacements	Chris Badger, VEIC
		Factors Influencing Grid-connected Heat Pump Water Heater Performance in the Southeast U.S.	Karen Fenaughty, Florida Solar Energy Center