

PANEL 8: Human Dimensions of Energy Use

Panel Leaders: **Chrissi Antonopoulos, Pacific Northwest National Laboratory** and **Karen Ehrhardt-Martinez**

DATE	SESSION	TITLE	LEAD AUTHOR, ORGANIZATION
Mon 8/3	Session 1 8:30 am - 10:00 am Program/Product Design and Flexible Energy Use	<i>Behavioral Archetypes of Thermostat Scheduling for Grid-Interactive Efficiency in California Homes</i>	Juana Isabel Mendez, UC Berkeley
		<i>Human-Centric Buildings for a Changing Climate: Behavioral Innovations for Affordability and Resilience</i>	Julia Day, Washington State University
		<i>Beyond Automation: What Real Homes Reveal About Smart Thermostat Flexibility</i>	Joseph Bourg, Olivine
		<i>New instruments for the band: how peak-focused insights add to equitable savings</i>	Daniel Fredman, Oracle
	Session 2 10:30 am - 12:00 pm Influencing Residential Decision Making and Purchases	<i>Navigating the Grid-Interactive Home: Residential User Experiences with Multiple Demand Response Programs</i>	Ihno Lee-Babineaux, Popsicle Labs
		<i>Leveraging Digital Twin Energy Insights for Personalized Customer Engagement</i>	Ash Gillis, ICF
<i>Leading a Community in Planning for the Inevitable: Advance Planning for HVAC System Replacement</i>		Kristin Heinemeier, Frontier Energy	
Tues 8/4	Session 1 8:30 am - 10:00 am Energy Modeling: Accounting for Context and Behavior	<i>CHOICE: Modeling decision-making in the home</i>	Katelyn Stenger, National Laboratory of the Rockies
		<i>Enhancing Energy Modeling with Qualitative Methods: Understanding Energy Decisions Grounded in Lived Experience</i>	Nicole Rosner, National Renewable Energy Laboratory
		<i>The 129 kWh per Month Lifestyle: What Outliers Reveal About Energy Norms and Comfort</i>	Kara Marshall, Eversource
	Session 2 10:30 am - 12:00 pm Understanding the Health and Wellbeing Benefits of Energy Efficiency	<i>Reductions in Medicaid Spending Associated with Income-Eligible Home Weatherization in the Southeastern U.S.</i>	Michaela Marincic, Three Cubed
		<i>Quantifying What Counts: Measuring Health and Social Benefits in Energy Efficiency</i>	Caroline Hopper, Guidehouse
		<i>Modeling Occupant Core Temperatures Across the U.S. Building Stock to Advance Public Health and Utility Efficiency</i>	Noah Sandoval, National Renewable Energy Laboratory
		<i>Challenges and Costs of Retrofitting to Electric Cooking: Interest, Viability, Installation Costs, and Satisfaction</i>	Amy Dryden

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Wed 8/5	Session 1 8:30 am - 10:00 am Decision Making and Operations in Commercial Buildings	<i>Measuring What Lasts: Quantifying Persistence in Behavioral and Operational Savings</i>	Gita Subramony, Ecometric Consulting
		<i>Operational Cost Savings Opportunities for MRI Scanners</i>	Amy Van Sant, National Laboratory of the Rockies
		<i>From Technology to People: Human-Centered Insights for Electrifying Commercial Kitchens</i>	Wendy Liu, TRC
	Session 2 10:30 am - 12:00 pm Energy and Other Benefits of Energy Efficiency Programs	<i>Powering More than Energy: Capturing Hidden Benefits of Programs</i>	Kimberly Jaeger Johnson, E Source
		<i>From Energy to Equity: Measuring What Weatherization Really Delivers</i>	Theresa Wells, Ecometric Consulting
		<i>Bronx & Brooklyn Energy Hub - Building a Bridge to the Clean Energy Economy for All New Yorkers</i>	Pedro Barry, AEA Clean Energy
		<i>New NEBs/NEIs for Weatherization Programs: Disaster Safety Improvements Reducing Roof Loss</i>	Lisa Skumatz, SERA Inc.
Thurs 8/6	Session 1 8:30 am - 10:00 am Working with Stakeholders	<i>From Aspiration to Action: Case Studies of Targeted Universalism in Practice</i>	Rachel Dortin, The Shared Space Project
		<i>Addressing the "complexity tax" in weatherization and housing assistance programs</i>	William Bryan, SEEA
		<i>From Missed Opportunities to Mission Alignment: Positioning CBOs as Energy Program Navigators</i>	Leigh Michael, E Source
	Session 2 10:30 am - 12:00 pm Attitudes, Practices, Messaging, Framing, and Overcoming Barriers	<i>Prepaying for Efficiency: How Behavioral Design in Prepaid Electricity Programs Drives Energy Savings and Affordability</i>	David Conn, Exceleron
		<i>High Bills, Low Bills, Same Income: Unpacking Structural and Behavioral Diversity in Low-Income Energy Consumption</i>	Martha Wudka, Evergreen Economics
		<i>The Control Premium: Quantifying the Psychological Tax slowing Electrification and Demand Response Adoption in the Midwest</i>	Phylicia Brown, Slipstream
		<i>From Curb Appeal to Real Performance: Experiences of Real Estate Agents Who Bring Home Performance into the Sale</i>	Pamela Brookstein, Pearl

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DATE	SESSION	TITLE	LEAD AUTHOR, ORGANIZATION
Fri 8/7	Session 1 8:30 am - 10:00 am	<i>Flex Appeal: Emerging best practices for communications to recruit households into load flexibility programs</i>	Angela Sanguinetti, UC Davis
	Framing, Nudges, Program Participation and Energy Savings in Flexible Use Programs	<i>Evaluation of Smart Home Cost Nudging for Peak Load Shifting and Resident Behavior Change</i>	Seonghyuk Son, Clemson University
		<i>Encouraging the Switch: What Drives Participation in Electrification and Battery Storage Programs</i>	LeeAnn Head, Franklin Energy
	Session 2 10:30 am - 12:00 pm	<i>Energy Consumption of Consumer Electronics in U.S. Homes in 2024</i>	Kurt Roth, Fraunhofer
	Effects of Energy Efficiency and Renewables: Purchasing Decisions on Energy Consumption	<i>From Production to Consumption: Residential Energy Use Increases Following Solar Installation</i>	Sarah Ardell, Verdant Associates
		<i>You, Too, Can Be a Virtual Power Plant!</i>	Serj Berelson, Oracle