

PANEL 14: DISPLAY PRESENTATIONS (Meeting Room: Merrill Hall/ Kristen Parrish - Panel Leader)

TUESDAY		THURSDAY	
TITLE	AUTHOR	TITLE	AUTHOR
<i>The (Un)Intended Effects of Stacking Load Modifying Solutions</i>	Kessie Avseikova, Opinion Dynamics	<i>Building a Diverse Workforce within Energy Efficiency</i>	Jamie Alford, CLEAResult
<i>Portfolio Changes Create a Flood of Emerging Technologies Needs</i>	Greg Barker, Energy Solutions	<i>DEVELOPING A MARKET-DRIVEN NET BENEFIT FRAMEWORK FOR DEMAND FLEXIBILITY</i>	Kadir Bedir, California Energy Commission
<i>Philanthropy's Role in Equitable Decarbonization in the Affordable Housing Sector</i>	Emily Baumbach, Kinetic Communities Consulting	<i>Quantifying the impact of carbon tax on utility energy efficiency program potential in the United States – Lesson learned from our neighbor.</i>	Ali Bozorgi, ICF
<i>Expanding Equity through Accessible Website Design</i>	Stacy Blumberg, TRC	<i>Innovating the Next Generation of Commercial Smart Building Software</i>	Armando Casillas, Lawrence Berkeley National Laboratory
<i>Energy Management Coaching Pilot: Impact on Arrearage Reduction in Small Businesses in Disadvantaged Communities</i>	Amy Buege, Verdant Associates	<i>Impact of Resilient and Efficient Codes Implementation</i>	Kim Cheslak, Pacific Northwest National Laboratory
<i>You too can be a perfect 10!</i>	Amy Buege, Verdant Associates	<i>Non-Residential Performance Based Energy Efficiency: How to Balance the Tradeoffs and Challenges between Portfolio Diversity, Customer Size, and Accuracy of Savings?</i>	Alison Erlenbach, Pacific Gas & Electric Company
<i>Share the wealth – How tenants are benefitting from Low-Income Multi-Family Solar</i>	Elizabeth Bullard, Verdant Associates	<i>Exploration of Methods for Determining Operational CO2e Emissions</i>	Philip Fairey, Residential Energy Services Network
<i>It's In Our Hands: Broadening Access to Kinesthetic Learning Experiences</i>	Kate Bushman, Cadeo Group	Engaging and crediting utilities for supporting energy code and building performance standard implementation	Emily Garfunkel, ACEEE
<i>Advanced Analytics for Decarbonization: Frameworks and Emerging Use Cases</i>	Ann Collier, Smart Electric Power Alliance	<i>Window Coverings that Can Take the Heat</i>	Theresa Gilbride, Pacific Northwest National Laboratory
<i>From Loading Order to Loading Lanes: Rethinking Communities of Concern's Energy Transition Like a Balanced Meal</i>	Marc Costa, The Energy Coaliton	<i>New Guidance to Meet Common Challenges in ENERGY STAR and ZERH Multifamily Construction</i>	Christian Kaltreider, Pacific Northwest National Laboratory

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<i>Do Property Managers Even Care About Energy Upgrades in Small Markets?</i>	Zach DeWolfe, C+C	<i>Zero Net Energy vs. Code: The Value of an Extra Layer</i>	Leah Karmaker
<i>Increasing Commercial Incentive Program Flexibility with Energy Model Based Web Apps</i>	Keith Downes, VEIC	<i>Critical HPWH Training and Tool Updates</i>	Jamie Kono, Pacific Northwest National Laboratory
<i>Workforce Development Initiatives for Diverse Contractors: A National Benchmarking Review of Utility Sponsored Programs to Advance Residential Energy Efficiency Weatherization</i>	Toben Galvin, Skytop Consulting	<i>Building Energy Innovation Network: Addressing Gaps in the Building Performance Upgrade Market for Difficult-to-Reach Customers</i>	Alexandra Kramer, National Renewable Energy Laboratory
<i>How many engineers does it take to sell a novel heat pump? Listening to the market and addressing key barriers in cold climate multifamily buildings so the heat pump sells itself.</i>	Jose Garcia, TRC Companies	<i>Behaving badly: Developing EVs as an efficiency measure</i>	Noah Lieb, Apex Analytics
<i>2021 IECC-Compliant Houses that Work in Every Climate Zone</i>	Theresa Gilbride, Pacific Northwest National Laboratory	<i>Carbon footprint of a Smart Heat Transfer System</i>	Margaret Logan, Armstrong Fluid Technology
<i>Rebates Remade: Right-sizing Incentives Through Customer Values and Preferences</i>	Ash Gillis, ICF	<i>SEEDs of Change: A open-source tool for managing building data to achieve community-wide energy and emissions goals</i>	Nicholas Long, National Renewable Energy Laboratory
<i>A Framework for Automating Review of Performance-Based Compliance Submissions</i>	Supriya Goel, Pacific Northwest National Laboratory	<i>How WISE Evaluation Can Improve Contractor Training for Home Electrification</i>	Jen Loomis, Opinion Dynamics
<i>A Tide to Lift All Boats: SEM Delivery Materials for the Creative Commons</i>	Dave Hall, Energy 350	<i>Analytical Study of an Air-Cooling Device Using an Elevated Water Tank</i>	Rafael Marulanda, Universidad de los Andes
<i>Architecture at Zero: Lessons from a competition delivering equity, resilience, and decarbonization</i>	Nathaniel Heckman, Resource Refocus	<i>Expanded Split Incentives in Building Value Chains</i>	Paul Mooney, ACEEE

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<i>Learnings from lab testing of CHPWH systems: lessons for system optimization and accurate modeling</i>	Jonathan Heller, Ecotope	<i>Occupancy Fan Controllers</i>	Robert Mowris, Verified Inc.
<i>Passive and low-power active measures to reduce utility costs and improve thermal safety of residents in disadvantaged communities of Los Angeles County</i>	Tianzhen Hong, Lawrence Berkeley National Laboratory	<i>Managing changes in peak demand from building and transportation electrification with energy efficiency and demand flexibility</i>	Sean Murphy, Lawrence Berkeley National Laboratory
<i>Energy Equity in California: The Role of Regional Energy Networks in Bringing Energy Efficiency Programs to Disadvantaged Communities</i>	Simranjit Kaur, California Public Utilities Commission	<i>90.1-2022 End-Use Viz</i>	Chitra Nambiar, Pacific Northwest National Laboratory
<i>Building stock analysis to facilitate energy efficiency program planning for state and municipal buildings</i>	Kevin Keene, Pacific Northwest National Laboratory	<i>Sharing the Love: "Guaranteeing" Participant Benefits from Equitable Electrification Programs</i>	Hal Nelson, Res-Intel
<i>Plugging In for Hot Water in Cold Climates: 120V Heat Pump Water Heaters in the Midwest</i>	Jonathan Koliner, Slipstream	<i>Building Electrical Capacity Management: The Missing Element to Enable a Sustainable and Resilient Grid</i>	Bruce Nordman, Lawrence Berkeley National Laboratory
<i>Energizing Economic Growth: A Methodology for Assessing National Residential Energy Auditor Readiness</i>	Blake Lajiness, U.S. Department of Energy	<i>Transforming demand response using OpenADR 3.0</i>	Bruce Nordman, Lawrence Berkeley National Laboratory
<i>Leveraging Heat Pump Water Heater Monitoring Data to Estimate Savings Under Various Baseline Scenarios</i>	Hans Lehndorff, Evergreen Economics	<i>Supporting Technology Adoption in Commercial Buildings via a Central Resource for Product Information and Evaluations</i>	Sarah Outcault, UC Davis Western Cooling Efficiency Center
<i>New U.S. Data Tools are Playing a Crucial Role in Decarbonizing Buildings at Speed, Scale, and Low Cost</i>	Han Li, Lawrence Berkeley National Laboratory	<i>Inspiring Tomorrow's Clean Energy Leaders</i>	Courtney Owen, ICF
<i>Quantifying the Value DERs Leave on the Table with Optimal Storage Dispatch Modeling</i>	Brian McAuley, Verdant Associates	<i>Reducing Health Risks in U.S. Public Correctional Facilities through Energy Efficiency Upgrades</i>	Pradeep Prathiba, American Assoc. for the Advancement of Science

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<i>Data Highlights from the 2018 Commercial Building Energy Consumption Survey (CBECS)</i>	Joelle Michaels, U.S. Energy Information Administration	<i>Ground-Truthing Efficiency Supply Curves: Experiences from a Highly Renewable State</i>	Grace Relf, Lawrence Berkeley National Laboratory
<i>Lifecycle Refrigerant Management</i>	Robert Mowris, Verified Inc.	<i>Compliance Portal: Tracking Building Performance from Design to Operation</i>	Michael Rosenberg, Pacific Northwest National Laboratory
<i>Pushing the envelope – Moving dynamic building envelope TES systems mainstream</i>	Sven Mumme, U.S. Department of Energy	<i>Real-time GHG Emission Factor</i>	Gulai Shen, Prescriptive Data Inc.
<i>Energy Equity in New Construction Code Compliance</i>	Chitra Nambiar, Pacific Northwest National Laboratory	<i>Equitable Workforce Development in Decarbonizing Existing Buildings</i>	Melissa Sokolowsky, Northwest Energy Efficiency Council
<i>Making the Work, Work: How community-based approaches can make utility-run energy efficiency programs more effective</i>	Lynda Nguyen, Kinetic Communities Consulting	<i>How leaky are your windows? – The demonstrated air-leakage benefits of storm windows and insulating panels</i>	Steve Sylvestre, Center for Energy and Environment
<i>Bringing Grid-Interactive Efficient Buildings (GEBs) to market: Insight on emerging business models from U.S. projects</i>	Guillermo Pereira, Lawrence Berkeley National Laboratory	<i>Benefits and Opportunities of Off-Site Construction: Analysis of Indiana and Pennsylvania</i>	Dragana Thibault, NEEP
<i>Food Deserts and Energy Efficiency – Sharing Intersections and Insights through Data Mapping</i>	Lisa Qu, ILLUME	<i>A Big Box of Carbon Reduction: How Efficiency Programs Can Leverage Consumer Product Retailers' and Manufacturers' Scope 3 Carbon Reduction Efforts</i>	Joe Van Clock, Apex Analytics
<i>Cold in Here or Is it All In My LED. Does our approach to estimating HVAC interaction factors matter?</i>	Santiago Rodriguez-Anderson, SBW Consulting	<i>Energy Smart: Preparing the Workforce for a Clean Energy Future</i>	Jeff Wanner, Pacific Northwest National Laboratory
<i>Is simple still better: can programs continue to get more done by simplifying calculations?</i>	Santiago Rodriguez-Anderson, SBW Consulting	<i>Easy-install Window Heat Pumps for Multifamily Retrofits</i>	Jason Wexler, Gradient
<i>Scaling Energy Efficiency in the Inland Empire: An Innovative Incentive Strategy Designed by and for the Inland Empire</i>	Lauren Seymour, The Energy Coalition	<i>You're saying my HP isn't that efficient? Load-based testing may bring more real world representativeness to heat pump ratings</i>	Christopher Williams, DNV

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TITLE	AUTHOR	TITLE	AUTHOR
<i>Heat Pump Performance in California: Fuel-Fired Water Heating Applications</i>	Saurabh Shekhar, ICF	<i>Bridging the Knowledge Gap on Advanced Lighting Controls</i>	Tianyao Zhang, Slipstream
<i>Multifunctional Heat Pump with Energy Storage Capability</i>	Bo Shen, Oak Ridge National Laboratory	<i>Low carbon transformation pathways for residential buildings based on high resolution bottom-up model: a case study of Beijing</i>	Yating Zhang, Tsinghua University
<i>Commercial Real-Estate Industry Challenges and Data-Driven Approaches for Success</i>	James Siegel, Eversource Energy		
<i>Windows: Pushing the envelope on a brighter future</i>	Isaac Smith, Center for Energy and Environment		
<i>Realpolitik vs Wealth of Nations: Realizing the Benefits of Cost-Effectiveness Testing in Building Decarbonization</i>	Justin Spencer, Apex Analytics		
<i>Affordable Window Retrofit Solutions for Multi-family Buildings</i>	Allegra Steenson, Pacific Northwest National Laboratory		
<i>Immersive Learning: Exploring Commercial Heat Pump Water Heater Technology with Virtual Interactive Tours</i>	Anissa Stubblefield, D+R International		
<i>Empowering the Future: A Ready Workforce Starts with High School Education in Energy Modeling</i>	Dave Vigliotta, Slipstream		
<i>“Man, I lost my kilowatt hours!” – A database of EV charging losses</i>	Francisco Cifuentes Villarroel, Energy Information Administration		
<i>Smart Building Technology Training Modules for Academic and Professional Education</i>	Xiaohui Zhou, Slipstream		