Panel 3: Commercial Buildings: Technologies, Design, Operations, and Industry Trends (Room: OAK SHELTER)

PANEL LEADERS: Alexi Miller, New Buildings Institute and Cindy Zhu

DATE	SESSION	TITLE	LEAD AUTHOR, ORGANIZATION
Mon 8/5	Session 1 8:30 - 10:00 am	The Solution to Large Building Electrification: Heat Recovery Chillers and Condenser Water Storage	Jeff Stein, Taylor Engineers
	Jolly Green Giants: Decarbonizing Large Commercial Buildings	Are we prioritizing the right thing? Cutting carbon emissions in California's large office buildings before installing a heat pump.	Hwakong Cheng, Taylor Engineers
		Heat Pumps can Help Decarbonize Large Commercial Buildings - Learnings from Foreign Applications	Andrew Hoffmeister, ACEEE
	Session 2 10:30 am - 12:00 pm	Not Too Cool for School: Demystifying Costs and Accelerating Pathways for All-Electric and Healthy Schools	Reilly Loveland, New Buildings Institute
	The Secret Sauce: Lessons Learned from Real-World Decarb Projects	Large-Scale Energy System Transformation – From Old School to Clean Energy Campus	Bruce Chamberlain, UC Berkeley
		How DOAS will be a Key Contributor to Building Decarbonization	Nicholas O'Neil, Energy 350
Tues 8/6	Session 1 8:30 - 10:00 am	Electrification, for the rest of us	Sean Brennan, Cadmus Group
	Food for Thought: Trends and Forecasts	Analyzing the long-term effects of building age on commercial building energy use and floorspace	Courtney Sourmehi, US EIA
	for Commercial Building Decarbonization	Identifying Barriers That Impede Cost-Effective, Holistic, and Equitable Building Performance and Zero Carbon Goals in Disadvantaged Communities	Ardelia Clarke, National Renewable Energy Laboratory
	Session 2 10:30 am - 12:00 pm	From Chills to Thrills: Revolutionizing Energy Efficiency and Load Flexibility in Supermarket Refrigeration	Ramin Faramarzi, National Renewable Energy Laboratory
	Retrofit Ratatouille: Transforming Today's Spaces	The impact of adaptive thermal comfort on energy savings in office buildings under various insulation levels	Hui (Mia) Ben, Newcastle University
		Progress Toward Electrification of Commercial Buildings	Peter Klint, Eversource

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Wed 8/7	Session 1 8:30 - 10:00 am	Finding Fault: How AFDD Can Deliver Efficiency at Scale for the Military and Beyond	Bryan Urban, Fraunhofer USA
	Feed Me More Data! Analytics and Automation in Buildings	Development and Validation of a Low-Cost Building Automation System for Small- and Medium-size Commercial Buildings	Srinivas Katipamula, Pacific Northwest National Laboratory
		Data Driven Sustainability for Mechanical and Electrical Products in Buildings	Taler Bixler, Pacific Northwest National Laboratory
	Session 2 10:30 am - 12:00 pm	Making Parking "EV Ready" At Scale: New Construction Requirements & Retrofit Programs for Comprehensive Futureproofing	Brendan McEwen, Dunsky Energy + Climate Advisors
	Power Breakfast! Demand Flexibility and DER Desserts	Advancing Grid Sustainability: Load Shifting with Heat Pump Water Heaters in Commercial and Multifamily Applications	Madison Johnson, Ecotope
		Price-based Communications for Load Shedding in Overloaded Panels	Anand Krishnan Prakash, Lawrence Berkeley National Laboratory
Thurs 8/8	Session 1 8:30 - 10:00 am	Overcoming Barriers to Natural Refrigerants: "Why can I buy a propane boiler but I cannot buy a propane heat pump?"	Scott Spielman, Ecotope
	What's in the Fridge: Next-Gen Refrigerants in HVAC and Beyond	A Near-Zero-GWP Heat Pump System for All-Electric Heating & Cooling in California	Aaron Tam, EPRI
		The Natural Choice for Walk-in Refrigeration: Packaged Hydrocarbon Equipment	Jake Marin, VEIC
	Session 2 10:30 am - 12:00 pm	Amp Up for Commercial Kitchen All-electric Retrofits: San Francisco International Airport (SFO) Case Study	Matthew Pucci, San Francisco International Airport
	Cracking the Tough Nut: Hard-to- Decarbonize Buildings and Systems	How to Achieve Energy Star Certification in a Hospital with this One Weird Trick. What's Next? (no paper)	Lianna Nordwig, Go Sustainable Energy
		Central Heat Pump Water Heating Systems for Decarbonizing Multifamily Buildings: Market Assessment, Energy Performance and Cost Effectiveness Analysis	Jingjuan Dove Feng, TRC

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Fri 8/9	Session 1 8:30 - 10:00 am	Pump Up Savings Persistence: Ensure VFD Savings with Smart Pumps	Warren Fish, NEEA
	Eat Your Efficiency Vegetables: Appetizing Energy Savings in Fans & Pumps		Geoff Wickes, Northwest Energy Efficiency Alliance
		Getting to Fan-Tastic: Overcoming Barriers to Energy Efficiency in the C&I Fan Market	Christopher Dyson, DNV
	Session 2 10:30 am - 12:00 pm	Getting Real about Dynamic Greenhouse Gas Monitoring for Buildings: Long Term Implications for Managing a Large Commercial Portfolio	Erin Lannon, U.S. General Services Administration
	The Decarbonization Casserole: Emerging Tech Spotlights	Design and Performance of Small Heat Pump Water Heater Systems	Yanda Zhang, ZYD Energy Inc.
		HVAC Fuel Substitution Measure Opportunities in California	Bryan Boyce, Energy Solutions

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