	Panel Leaders: Alexi Miller & Shanti Pless				
	SESSION 1 (8:30 am - 10:00 am)		SESSION 1 (8:30 am - 10:00 am)		
	The Healthy Buildings and Energy Nexus		Decarbonizing Existing Buildings		
	How Does Lighting for Wellness Affect Energy Use? Results from Simulation and Laboratory Studies, and a Look Ahead.	TUESDAY, AUGUST 23	Automated Anomaly Detection and Diagnosis for Real Time Carbon Minimization		
	Jordan Shackelford, Lawrence Berkeley National Laboratory		Hao Huang, Buildings Alive		
	Energy Implications of Using Germicidal Ultraviolet Radiation to Combat SARS- CoV-2		Decarbonization Training for Facility Managers		
	Gabe Arnold, Pacific Northwest National Laboratory		Jillian Winterkorn, Eversource		
	Energy Efficiency Measures to Improve Indoor Air Quality and Reduce the Spread of the SARS-CoV-2 Virus		Can Electrification Find a Sweet Spot? Summarizing Field Data from Electrification Audit in Commercial and Industrial Buildings.		
	Robert Mowris, Verified Inc.		Carl Samuelson, Michaels Energy		
	SESSION 2 (10:30 am - 12:00 pm)		SESSION 2 (10:30 am - 12:00 pm)		
	What's after Zero: Net Zero Energy Buildings and Beyond		Taking Electrification to Scale - Cities, States, and Beyond		
	Challenges and Lessons Learned from an Analysis of Three Zero Energy Buildings		Audit Template Tool: Facilitating Data Driven Decision Making for Jurisdictions		
	Kate Hickox, Pacific Northwest National Laboratory		Supriya Goel, Pacific Northwest National Laboratory		
	Competition Between Ventilation and Cooling in Commercial Buildings and		What's in Stock: Integrated Modeling of Building Electrification, Energy Efficiency, and		
	Implications for Energy Flexibility		Stock Turnover for New York City		
	Caitlin McMahon, Stanford University		William Prindle, ICF		
	Cutting Carbon with Codes: Reducing the Worst Climate Impacts of Construction		Cold Climate Packaged Heat Pumps – Finding Sasquatch		
	Webly Bowles, New Buildings Institute		Evan Hallas, Taitem Engineering		
	SESSION 1 (8:30 am - 10:00 am)		SESSION 1 (8:30 am - 10:00 am)		
	High Performance HVAC Opportunities		Cooking and Cultivation: (de)Carbonizing Comestibles and Consumables		
	Heat Pump Controls: Decarbonizing Buildings While Avoiding Electric Resistance	AUGUST 25	Data Driven Energy Efficiency in Controlled Environment Agriculture		
	Heating and Higher Net Peak Demand		Data-Driven Energy Efficiency in Controlled Environment Agriculture		
	Jonathan McHugh, McHugh Energy Consultants		Jennifer Amann, ACEEE		
	Including Economizer Efficiency in the Unitary Next Generation Test Procedure		The Nexus of Energy Efficiency and Low GWP Refrigerants; Can We Meet Our Greenhous		
	Standards		Gas Emission Goals in Commercial Refrigeration?		
	Robert Mowris, Verified		Jim Kelsey, kW Engineering		
	DO AS We Say (and As We Do): Maximizing HVAC Efficiency, Flexibility and		Cooking Up Carbon Reductions: Equipment Upgrades and Fuel Switching Strategies to		
	Resiliency with High Efficiency Dedicated Outdoor Air Systems		Reduce Emissions from Commercial Kitchens		
	Jordan Pratt, Energy 350		Adam Spitz, ICF		
ì	SESSION 2 (10:30 am - 12:00 pm)		SESSION 2 (10:30 am - 12:00 pm)		
	Can We Control It?		Smart Controls and Big Data		
	Towards a Digital and Performance-Based Control Delivery Process		Existing Wireless Infrastructure is a Low-cost Path to Occupancy-based Commercial  Building Control		
•	Amir Roth, US Department of Energy		Cecil Scheib, New York University		
	Hot Mess or Cool Tech? Secrets to Success for Advanced Building Controls		·		
	Integration		Qualitative Evaluation of Barriers, Awareness, and Adoption of LLLC Technologies		
	Nathan Hinkle, Cadmus		Shelby Ruiz, Washington State University		
			Shelby Raiz, washington state oniversity		
	A Demonstration and Evaluation of Commercial Ruilding Occupancy Sensing Using				
	A Demonstration and Evaluation of Commercial Building Occupancy Sensing Using Wi-Fi Location-Based Services (LBS)		Network Lighting Controls (NLC) 2.0		

Panel 3 continued				
	SESSION 1 (8:30 am - 10:00 am)			
	Modeling EE, DR, and DERs in Commercial Buildings			
	Probabilistic Modeling of Commercial Building Occupancy and Electric Vehicle			
	Charging Behavior Using Location-Based Map Data			
	Rawad El Kontar, National Renewable Energy Laboratory			
	Incorporating the Impacts of Climate Change in a Typical Weather Year			
,,	Anna Kelly, Power TakeOff			
IST 26	Calibration of Building Energy Model to Determine Load Flexibility Potential			
FRIDAY, AUGUST	Tanushree Charan, National Renewable Energy Laboratory			
Α	SESSION 2 (10:30 am - 12:00 pm)			
Α	Energy Design in Commercial Buildings			
SE SE	Measuring and Benchmarking Demand Flexibility in Commercial Buildings and			
	Flattening the Duck – Addressing Baseline and Commissioning Challenges			
	Jingjing Liu, Lawrence Berkeley National Laboratory			
	Integrating Embodied Carbon Knowledge for Design Decisions			
	Heather Goetsch, National Renewable Energy Laboratory			
	What We Learned From Analyzing 15 Millions Rows of Commercial Buildings'			
	HVAC Fault Data			
	Eliot Crowe, Lawrence Berkeley National Laboratory			