	DRAFT - schedule changes weekly PANEL: 10 - Net Zero			, Net Positive (Evergreen)
Day	SESSIONS	LEAD AUTHOR/ORGANIZATION		TITLE
Mon 8/22	Session 1 8:30 am - 10:00 am What are They?	Kent Peterson, P2S Engineering, Inc.		A Common Definition for Zero Energy Buildings
		Paul Torcellini, National Renewable Energy Laboratory		Analysis of Different Methods of Computing Source Energy
		Abhijeet Pande, TRC Companies, Inc.		So You Say You have Built a ZNE Building, Prove It!
Mon	Session 2 10:30 am - 12:00 pm Feds & State ZEB Programs	Nick Jones, Eversource Energy		Zero Net Energy: Available and Scalable
		Richard Faesy Energy Futures (aroun		Moving Vermont Existing Homes to "Zero Energy Now" through a Comprehensive Retrofit Approach
		Solome Girma, U.S. Department of Energy		Driving Market Adoption of Zero Energy Schools
	Session 1 8:30 am - 10:00 am Residential Case Studies	Bethany Sparn, National Renewable Energy Laboratory		Case Study on Long-Term Performance of Net-Zero Energy Home
		Nicholas Collins, ERS		Measured Performance of Net Zero Energy Homes in NY State
8/23		Dave Chasar, Fl	orida Solar Energy Center	From Energy Guzzler to Near Zero Energy Home: Lessons from the Phased Deep Retrofit Project
Tues 8	Session 2 10:30 am - 12:00 pm Non-Residential Case Studies	Jim Maskre	y, University of Hawaii	Positively Net Zero: Case Study of Performance Simulation and Hitting the Targets
		Robert Hutchinso	n, Rocky Mountain Institute	How to Buy a Netzero Office
		Amy Na	gengast, MKThink	ZNE vs. Comfort: A Holistic Look at High Performanc

Day	SESSIONS LEAD AUTHOR/ORGANIZATION		TITLE
Wed 8/24	Session 1 8:30 am - 10:00 am Metrics Matter for Decarbonization	Imran Sheikh, Energy and Resources Group	Implications of Electrified Residential Space Heating in California
		Victoria Clark, Energy + Environmental Economics	Preliminary Economic Outlook for California Residential ZNE
		Meg Waltner, Natural Resources Defense Council	Does Zero Net Energy Mean Zero Net Carbon? Reevaluating California's Time- Dependent Valuation Metric as the State Moves toward a Net Zero Code
	Session 2 10:30 am - 12:00 pm City Districts	Ben Polly, National Renewable Energy Laboratory	From Zero Energy Buildings to Zero Energy Districts
		Rebecca Zarin Pass, Lawrence Berkeley National Laboratory	A Tale of Three District Energy Systems: Metrics and Future Opportunities
		Betty Seto, DNV GL	Zero Net Energy Communities: Three Cities Leading the Way
	Session 1 8:30 am - 10:00 am Technology and Metrics	Nelson Brito, Universidade de Coimbra	From the 16th to the 21st Century: Upgrading Traditional Knowledge to Approach Net Zero Goals in Existing Neighborhood Upgrades (ZERH-NU)
		Alexi Miller, New Buildings Institute	Zero Net Energy Building Controls: Characteristics, Energy Impacts, and Lessons
/25		Marshall Hunt, PG&E	Zero Net–Balancing Energy Efficiency and Renewable Generation
Thurs 8/25	Session 2 10:30 am - 12:00 pm More than One Way to Skin the Cat: Different Residential Methods	Ann Edminster, Design Avenues	Zero Energy Homes: Seeing is Believing
		Jim Young, Navigant Consulting, Inc.	ZNE Simulation Study: Homes with Mixed Fuel vs. Electric Only
		Bievenido Clarin, Electric Power Research Institute	Establishing Feasibility of Residential Zero Net Energy Community Development: Learnings from California's First ZNE Neighborhood
Fri 8/26	Session 1 8:30 am - 10:00 am Design Process	Lizzie Adams, PAE Engineers	Occupant-Centered Design: Changing How We Design Health and Comfort Systems
		Carrie Brown, Resource Refocus LLC	Measured Zero Net Energy Performance: Results, Lessons, and Surprises
		Shanti Pless, National Renewable Energy Laboratory	Technical Feasibility for Zero Energy K-12 Schools
	Session 2 10:30 am - 12:00 pm Marketplace and Barriers	Stephanie Berkland, TRC Companies, Inc.	What More Can California Do to Achieve the 2020 Residential ZNE Goals? We Asked the Market
		Margaret Pigman, Resource Refocus LLC +C36	Lessons Learned for a Zero Net Energy Production Builder Demonstration
		Ram Narayanamurthy, Electric Power Research Institute	Grid Integration of Zero Net Energy Communities

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	ALTERNATES	Ming Hu, University of Maryland	Net Positive Building and Alternative Energy in an Institutional Environment
		Christopher Meek, University of Washington	Metered Energy Efficiency Transaction Structure in Net-Zero New Construction: Pay- For-Performance at the Bullitt Center in Seattle, WA
		Karl Johnson, CA Institute for Energy and Environment	Direct Current as an Integrating Platfrom for ZNE Buildings with EVs and Storage: DC Direct Systems - A Bridge to Low Carbon Future???
		Nehemiah Stone, Stone Energy Associates	A Codes and Standards Path to Achieving Zero Net Energy for Low-Rise Multifamily Buildings
		Tania Ullah, U.S. Department of Commerce	Energy and Indoor Air Quality Benchmarking of the NIST Net-Zero Energy Residential Test Facility (NZERTF)
		Celia King-Scott, DNV GL	Measuring up to Net Zero: The Status of New Construction Programs and How They Can Further Net Zero Energy in the Commercial Sector
		Wei Feng, Lawrence Berkeley National Laboratory	Impact Analysis of Developing Net Zero Energy Buildings in China