	DRAFT - schedule changes weekly		PANEL: 10 - Net Zero, Net Positive	
Day	SESSIONS	ONS 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!
	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 Group		Moving Vermont Existing Homes to Net Zero Energy through a Comprehensive Approach
		Solome Girma, U.S. Department of Energy		Driving Market Adoption of Zero Energy Buildings
	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
		Nich	olas Collins, ERS	Measured Performance of Net Zero Energy Homes in NY State
8/23		Dave Chasar, Florida 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 Maskrey, University of Hawaii		Positively Net Zero: Case Study of Performance Simulation and Hitting the Targets/To Z or Not to Z: Case Study Comparing Energy and Comfort in 4 ZEB and 2 Conventional Classrooms in Tropical Hawaii
		Robert Hutchinso	on, Rocky Mountain Institute	How to Buy a Netzero Office
		Signo Uddenberg, MKThink		ZEB vs. Comfort (Utilization)? A Holistic Look at High-Performance

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Wed 8/24	Session 1	Ming Hu, The American Institute of Architects	Net Positive Design and Alternative Energy
	8:30 am - 10:00 am Metrics Matter for	Tory Clark, Energy + Environmental Economics	ZNE in the Real World: Perfomance Measurements in Southern California
	Decarbonization	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	Ben Polly, National Renewable Energy Laboratory	From Zero Energy Buildings to Zero Energy Districts
	10:30 am - 12:00 pm City Districts	Rebecca Zarin Pass, Lawrence Berkeley National Laboratory	A Tale of Three District Energy Systems
		Betty Seto, DNV GL	Zero Net Energy Communities: Three Cities Leading the Way
	Session 1 8:30 am - 10:00 am	Nelson Brito, Universidade de Coimbra	From the XIVth to the XXIst Century: Upgrading Traditional Knowledge to Reach Net Zero Goals, and Timeless Comfort
	Technology and Metrics	Alexi Miller, New Buildings Institute	Zero Net Energy Building Controls: Characteristics, Energy Impacts, and Lessons
8/25	ivietrics	Marshall Hunt, PG&E	Zero Net–Balancing Energy Efficiency and Renewable Generation
Thurs 8	Session 2	Ann Edminster, Design Avenues	Zero Energy Homes: Seeing is Believing
-	10:30 am - 12:00 pm More than One Way to	Jim Young, Navigant	ZNE Simulation Study: Homes with Mixed Fuel vs. Electric Only
	Skin the Cat: Different Residential Methods	Bievenido Clarin, Electric Power Research Institute	Establishing Feasibility of ZNE Residential at Scale: Learnings from California's First ZNE Neighborhood
	Session 1	Lizzie Adams, PAE Engineers	Occupant-Centered Design: Changing How We Design Health and Comfort Systems in Low-Load Buildings
	8:30 am - 10:00 am	Carrie Brown, Resource Refocus LLC	Measured Zero Net Energy Performance: Results, Lessons, and Surprises
Fri 8/26	Design Process	Shanti Pless, National Renewable Energy Laboratory	Technical Feasibility for Zero Energy K-12 Schools
	Session 2 10:30 am - 12:00 pm	Stephanie Berkland, TRC Companies, Inc.	What More Can California Do to Achieve the 2020 Residential ZNE Goals? We Asked the Market
	Marketnlace and	Margaret Pigman, Resource Refocus LLC	Lessons Learned for a Zero Net Energy Production Builder Pilot

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Day	SESSIONS LEAD AUTHOR/ORGANIZATION		TITLE
	Ram Narayanamurthy, Electric Power Research Institute		Grid Integration of Zero Net Energy Communities
		Imran Sheikh, Energy and Resources Group	Implications of Decarbonized Residential Space and Water Heating in California
		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,	Direct Current as an Integrating Platfrom for ZNE Buildings with EVs and Storage: DC
		CA Institute for Energy and Environment	Direct Systems - A Bridge to Low Carbon Future???
	ALTERNATES	Sophia Hartkopf, TRC Energy Services	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

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