



Time	
2:45 - 5:00 pm	<p data-bbox="461 835 1300 940" style="text-align: center;">Pre-conference Tour of Sandia National Laboratories' National Solar Thermal Testing Facility (NSTTF)</p>
5:00— 6:00 pm	<p data-bbox="631 1465 1130 1570" style="text-align: center;">Registration and Early Check-in La Fonda 1st Floor Portal</p>



Time	New Mexico	Santa Fe	La Terraza
7:00 am	Registration & Continental Breakfast		
7:45 am	Plenary Session		
8:00 - 9:30 am	<p align="center"><u>Cybersecurity</u></p> <p>Jenna McGrath and Margaret E. Kosal, Georgia Institute of Technology; <i>Targeted Attacks Against U.S. Electricity Infrastructure</i></p> <p>Lon Dawson, Sandia National Laboratories; <i>Integrated Cyber/Physical Impact Analysis to Secure U.S. Critical Infrastructure</i></p> <p>Phil Turner, Sandia National Laboratories; <i>A New Look at Cybersecurity for Nuclear Power Plants: The Cyber Hazards Analysis Risk Methodology (CHARM)</i></p>	<p align="center"><u>Sub-state and Local Energy</u></p> <p>Ellen Anderson and Megan Butler, University of Minnesota; <i>Sustainable Energy Transition in Northeastern Minnesota</i></p> <p>Peter Larsen, Lawrence Berkeley National Laboratory; <i>Case Study of the Costs and Benefits of Undergrounding Electricity Distribution Lines</i></p> <p>Seth Wiggins, Colorado School of Mines; <i>How Sub-State Policies Affect the Western U.S. Residential Solar Market: An Application of a Bayesian Spatial Hierarchical Method</i></p>	<p align="center"><u>Hydrocarbons: Technology and Issues</u></p> <p>Katie Zemlick, Elmira Kalhor, Bruce M. Thomson, Janie Chermak, Enid J. Sullivan, and Vincent C. Tidwell, University of New Mexico, Los Alamos National Laboratory, and Sandia National Laboratories; <i>Mapping the Energy Footprint of Produced Water Management in New Mexico</i></p> <p>Janie M. Chermak; Robert H. Patrick, University of New Mexico; Rutgers University; <i>Optimizing Production of Hydrocarbons and Water Incentives for Goods and Bads</i></p> <p>Samuel Gallaher, University of Colorado Denver; <i>Policy-Making Venue Selection of Policy Advocates in the Oil and Gas Development Debates in New York</i></p> <p>Greyson Buckingham, Jakob Norman, and Zachary Soukup, Mesa Natural Gas Solutions; <i>Utilizing Natural Gas Generators to Reduce Emissions and Flared Gas</i></p>
9:45 - 11:15 am	<p align="center"><u>Transport and Electric Vehicles</u></p> <p>Hanna Breetz, Arizona State University; <i>Where Should you Buy an Electric Vehicle? Comparing Ownership Costs Across U.S. Cities</i></p> <p>Eric Williams, Rochester Institute of Technology; <i>Can New Energy Technologies Beat Cheap Oil?: Technological Progress and Benefit Heterogeneity for Plug-in Hybrid Vehicles</i></p> <p>Alan Jenn, University of California, Davis; <i>Evaluating Future Emissions from Electric Vehicles Across the United States with a Changing Electric Grid Mix Under the Clean Power Plan</i></p> <p>Darlene Steward and Ted Sears, National Renewable Energy Laboratory; <i>Quantifying the Impact of the Energy Policy Act Vehicle and Motor Fuel Provisions on the Sustainability and Resilience of U.S. Cities</i></p>	<p align="center"><u>State and Tribal Energy</u></p> <p>David Bernell, Oregon State University; <i>Energy Policy in Oregon: Yes to Renewables, No to Coal</i></p> <p>Robert Godby, University of Wyoming; <i>Wyoming Citizen Preferences for State Budgeting Outcomes When Energy Prices Crash</i></p> <p>Len Necefer, Carnegie Mellon University; <i>Identifying Barriers and Policy Solutions for Renewable Energy Development on Tribal Lands</i></p> <p>Jeffrey J. Cook, Jane Culkins, Chris Edmonds, Katherine Herriot Hoffer, Jeff Lyng, David Manning, and Tom Plant, Colorado State University Center for the New Energy Economy; <i>Driving Energy Efficiency Markets: The Conventional Approach</i></p>	<p align="center"><u>Methods and Analysis</u></p> <p>Supriya Chinthavali and Jessica Lin, Oak Ridge National Laboratory; Department of Energy – Energy Policy Systems Analysis Office; <i>Data Analytics Workflow to Identify Clean-Energy Innovation Clusters</i></p> <p>Turki A. Alaqeel & Siddharth Suryanarayanan, Colorado State University; <i>Analytic Hierarchy Process to Analyze Costs and Benefits of Grid Modernization: A Case Study of the Saudi Electricity Infrastructure</i></p> <p>Vincent Neary, Sandia National Laboratories; <i>Levelized Cost Of Energy Estimation for Marine Energy Conversion (MEC) Technologies</i></p>



EPRC⁶ Agenda

Thursday, September 8th

<p>11:15 am – 12:45 pm</p>	<p align="center">Keynote Speaker Curt L. Hébert, Jr. & Luncheon (La Terraza)</p>		
<p>Time</p>	<p>New Mexico</p>	<p>Santa Fe</p>	<p>La Terraza</p>
<p>12:45 – 2:15 pm</p>	<p align="center"><u>Electricity Markets</u></p> <p>Seth Blumsack, Pennsylvania State University; <i>Can Electricity Markets be Designed by Democracy?</i></p> <p>Sam Cramer and Aliza Wasserman, National Governors Association; <i>Lessons from a State Learning Network on New Utility Business Models and Electricity Market Structures of the Future</i></p> <p>Alyssa Deardorff, Autumn Engh, H. J. Corsair, David Hammond, Georgia Institute of Technology, Oregon Institute of Technology; <i>Carbon-based Bidding Structure in Competitive Electricity Markets</i></p>	<p align="center"><u>International</u></p> <p>Nilmimi Silva-Send, Energy Policy Initiatives Center, University of San Diego; <i>The Continuing Story of Renewables Integration - How is Germany Doing? The 20 March 2015 Eclipse, 33% Renewable Electricity Production in 2015, Evolving Issues, and what we can Learn</i></p> <p>Sharlissa Moore, Michigan State University; <i>Evaluating the Energy Security of Electricity Interdependence</i></p> <p>Wesley Cole, National Renewable Energy Laboratory; <i>Modeling the Value of Integrated Canadian and U.S. Power Sector Expansion</i></p> <p>Kevin F. Forbes and Ernest Zampelli, The Catholic University of America; <i>Are Policymakers Adequately Apprised about the Challenges Posed by Large-Scale Integration of Renewable Energy into the Electric Power System? Evidence From Germany</i></p>	<p align="center"><u>Social Acceptance of Technology/Siting</u></p> <p>Tamas Golya, Oregon State University; <i>Geospatial Factors of Wind Energy Siting in the Western United States</i></p> <p>Caitlin Augustin, University of Miami; <i>Understanding Public Perception of CCS: Analyzing the Role Hydraulic Fracturing Plays in Shaping Technological Acceptance of CCS</i></p> <p>Hiromi Kubota, Central Research Institute of Electric Power Industry; <i>Lessons Learned from the Case Study Related to Social Acceptance to Developing Geothermal Power Generation in Japan</i></p> <p>Chad Zanocco, Oregon State University; <i>Proximity to Development and Support for 'Fracking'</i></p>
<p>2:15 - 2:45 pm</p>	<p align="center">Networking Break</p>		



Time	New Mexico	Santa Fe	La Terraza
<p>2:45 - 4:15 pm</p>	<p><u>Distributed Energy Resources and Governance</u></p> <p><i>Michael Wara</i>, Stanford Law School; <i>Competition at the Grid Edge: A New Role for the Federal Government in Overseeing Competition Between Utilities and Distributed Energy Resources</i></p> <p><i>Kathleen Araujo</i>, Stony Brook University; <i>Distributed Generation 2.0: Lessons in Market Redesign and Grid Management from Danish and Spanish Wind Technology Diffusion</i></p> <p><i>Elizabeth Baldwin and Valerie Rountree</i>, University of Arizona; <i>Distributed Resources and Distributed Governance: An Investigation into States' Use of Collaboratives for Clean Energy Regulation</i></p> <p><i>Charles Davis and Sandra Davis</i>, Colorado State University; <i>States and Roof Top Solar: The Distributed Energy "Cat" on the Hot PV Roof?</i></p>	<p><u>Renewable Energy and Energy Efficiency</u></p> <p><i>Ryan Wiser</i>, Lawrence Berkeley National Laboratory; <i>Wind Energy Technology Advancements and Cost Reductions: What Do Wind Experts Say?</i></p> <p><i>Felix Mormann</i>, University of Miami; <i>Brave Renewable World? – A Critical Assessment of the Social Sustainability of Renewable Energy Policy</i></p> <p><i>Ryan Wiser, Galen Barbose, Jenny Heeter, Trleu Mal, Lori Bird, Mark Bollinger, Alberta Carpenter, Garvin Heath, David Keyser, Jordan Macknick, Andrew Mills, and Dev Millstein</i>; National Renewable Energy Laboratory, Lawrence Berkeley National Laboratory; <i>Renewable Portfolio Standards: National Costs, Benefits, and Impacts</i></p> <p><i>Brendon Baatz</i>, American Council for an Energy-Efficient Economy; <i>Big Savers: Experiences and Recent History of Program Administrators Achieving High Levels of Electric Savings</i></p>	<p><u>Energy & Water</u></p> <p><i>Rebecca Clez, Paul Welle, Meagan S. Mauter, and J. F. Whitacre</i>, Carnegie Mellon University; <i>Evaluating Food-Energy-Water Systems with a Concurrent Assessment Method</i></p> <p><i>Jessica Rackley</i>, National Governors Association; <i>Energy & Water: Breaking Silos to Design State Policies to Conserve Both Resources</i></p> <p><i>Amy Stein</i>, University of Florida Levin College of Law; <i>Reliability and Water Intensity</i></p>
<p>4:30 - 6:00 pm</p>	<p><u>Assessing Electricity: Load, Controls, and Costs</u></p> <p><i>Kevin L. Stamber</i>, Sandia National Laboratories; <i>Modeling of the Benefits (or Detriments) of Increased Automation in Electric Power Grid Operations: Methodology and Experiments</i></p> <p><i>Caitlin Augustin and Keith Benes</i>, University of Miami, Columbia University; <i>Beyond LCOE: A Simplified Framework for Assessing the Full Cost of Electricity</i></p> <p><i>Juan Pablo Carvallo</i>, Lawrence Berkeley National Laboratory; <i>Load Forecasting in Electric Utility Integrated Resource Planning</i></p>	<p><u>Complexity in Energy Decisions and Governance</u></p> <p><i>Robert J. Duffy</i>, Colorado State University; <i>Integrating Climate, Energy, and Air Pollution Policies in the Obama Administration</i></p> <p><i>Robert E. Forbis Jr. and Katharine Hayhoe</i>, Texas Tech University; <i>Climate, Energy, and Governance in the Arctic: Could this be the Most Dangerous Feedback of Them All?</i></p> <p><i>David Gattle</i>, University of Georgia; <i>Climate Change, Energy Poverty, Economic Aspirations, and Reliable Electricity: An Unprecedented Set of Constraints</i></p> <p><i>Sebastian Rauner and Jagruti Thakur</i>, Helmholtz-Centre for Environmental Research - UfZ, IIT Kharagpur; <i>Evaluation of Multi Objective vs. Single Objective Energy System Optimization</i></p>	<p><u>Materials and Innovative Technology</u></p> <p><i>Rebecca Clez and J.F. Whitacre</i>, Carnegie Mellon University; <i>Prospects for Lithium Ion Battery Recycling in a Changing Market</i></p> <p><i>Braeton Smith and Roderick Eggert</i>, Colorado School of Mines; <i>Material Substitution in Rare Earth Magnets: Evidence from 2010-2015</i></p> <p><i>Sal Rodriguez</i>, Sandia National Laboratories; <i>Pathways for a More Efficient Water-Energy Nexus</i></p> <p><i>Lon Dawson</i>, Sandia National Laboratories; <i>Supercritical CO2-Brayton Cycle – Potential benefits, Applications, Technology Development Status and Future Plans</i></p>



Time	La Terraza
6:00 - 9:00 pm	<p data-bbox="743 768 1045 800">Networking Reception</p> <p data-bbox="672 869 1117 900">Please join us for drinks and appetizers</p> <p data-bbox="862 932 927 963">at the</p> <p data-bbox="431 1003 1357 1079">EPRC⁶ Networking Reception</p> <p data-bbox="800 1108 989 1140">In the La Terraza</p>



Time	New Mexico	Santa Fe	La Terraza
7:30 am	Continental Breakfast (La Terraza)		
8:30 - 10:00 am	<p style="text-align: center;"><u>Demand Side: Microgrids, Solar, and Storage</u></p> <p>Alberto Lamadrid, Lehigh University; <i>Managing Renewable Generation Efficiently: Centrally vs. Locally Controlled Deferrable Demand</i></p> <p>Naïm Darghouth, Lawrence Berkeley National Laboratory; <i>Exploring the Impacts of Demand Charge Design on the Economics of Solar PV for Commercial and Residential Customers in the U.S.</i></p> <p>John Gardner, Erika Ramirez, Nick Johnson, Boise State University; <i>The Role of Demand Response in Economics of Micro Grids</i></p>	<p style="text-align: center;"><u>Clean Power Plan</u></p> <p>Daniel E. Klein, Twenty-First Strategies; <i>CO2 Emission Trends for the U.S. and the Electric Power Sector</i></p> <p>Robert Godby, Roger Coupal, David Taylor, University of Wyoming; <i>The Impact of Rate-based or Mass-based Rules on Coal Generation under the Clean Power Plan</i></p> <p>Danny Cullenward and Michael Wara, Carnegie Institution for Science; Stanford Law School; <i>Updating the Clean Power Plan's Renewable Energy Projections</i></p> <p>Brady Stoll and Clayton Barrows, National Renewable Energy Laboratory; <i>Optimal Resource Planning under the Clean Power Plan</i></p>	<p style="text-align: center;"><u>Small Modular Reactors</u></p> <p>Geoffrey Black, Wesley Labor, and Meredith Taylor Black, Boise State University; <i>Carbon Reduction in the US: The Clean Power Plan and the Role of Small Modular Reactors</i></p> <p>James Carter, JECA Consulting; <i>Small Modular Reactor Deployment: Learning from the Past and the Present</i></p> <p>Mohamed S. El-Genk, Institute for Space and Nuclear Power Studies, University of New Mexico; <i>Small Modular Nuclear Reactors: Potential, Challenges and Opportunities</i></p> <p>Bobby Middleton, Sandia National Laboratories; <i>Feasibility of Deploying a Small Modular Reactor on or Near an Air Force Space Command Site</i></p>
10:15 - 11:45 am	<p style="text-align: center;"><u>Resilience</u></p> <p>Robert Jeffers, Sandia National Laboratories; <i>Toward a Cohesive Resilience Planning Process for Cities: Application of an Urban Resilience Analysis Process to Norfolk, VA</i></p> <p>Eric Vugrin, Sandia National Laboratories; <i>Modeling Infrastructure Dependencies to Inform and Improve Electric Power Grid Resilience</i></p> <p>Vanessa Vargas, Sandia National Laboratories; <i>Economic Resilience Analysis: Metrics and Methods</i></p>	<p style="text-align: center;"><u>California Carbon and Emissions</u></p> <p>Danny Cullenward, Carnegie Institution for Science; <i>State Constitutional Limitations on the Future of California's Carbon Market</i></p> <p>Joe Kaatz and Scott Anders, University of San Diego Energy Policy Initiatives Center; <i>Causation as the Basis for Attributing Greenhouse Emissions from Electricity: A California Case Study</i></p> <p>Bill Dean, California Environmental Protection Agency; <i>Interactions Among Market Mechanisms for Reducing Greenhouse Gas Emissions in California</i></p> <p>Joseph Rand, Lawrence Berkeley National Laboratory; <i>Ancillary Services and Economic Impacts of Environmentally Protective Hydropower Operations</i></p>	