# PANEL 6: UTILITIES AND THE FUTURE  
*(Meeting Room: Chapel)*

**Panel Leaders:** Ben Clarin and Jim Jerozal

## MONDAY, AUGUST 22

### SESSION 1 (8:30 - 10:00 am)

**Working Together - Lessons Learned in Collaboration that Enables the Utility of the Future**

**Understanding Utility Awareness and Engagement among Low Income Customers**  
*Hale Forster, See Change Institute*

**Heating Electrification without Peak? A Unique Collaboration Shows a Third Way is Possible**  
*Presented by Jean-Philippe Hardy, Dunsky Energy + Climate Advisors*

(Lead: Philippe Dunsky, Dunsky Energy + Climate Advisors)

**Leverage - How Utility-Funded Programs are Addressing Cost-Effectiveness and Rate Impact Issues through Co-Funding**  
*Fred Gordon, Energy Trust of Oregon*

### SESSION 2 (10:30 am - 12:00 pm)

**Learning by Doing - Lessons Learned from Deploying Utility Decarbonization Programs**

**One Leak at a Time: Embedding Refrigerant Management in Building Electrification and Decarbonization Strategies**  
*Zoe Dawson, VEIC*

**The New Low-carb Diet: An Assessment of California’s New Fuel Substitution Decarbonization Policy in Practice**  
*Cameron Tuttle, DNV Energy Systems*

**Utility and Participant Value of a Pay As You Save Energy Efficiency Program**  
*Stephen Bickel, Clean Energy Works*

## TUESDAY, AUGUST 23

### SESSION 1 (8:30 - 10:00 am)

**To Flex or not to Flex - Planning, Demonstrating, and Deploying Building Technologies as Grid Resources**

**Benefit-Cost Analysis of Non-Wires Alternatives (NWAs): Reflecting Uncertainty in Electric Distribution System Planning**  
*Sam Ross, Optimal Energy*

**Field Performance of Variable Capacity Heat Pumps in Southeastern Homes, a DER Option?**  
*Jonathan Coulter, Advanced Energy*

**Too Much – Too Little. Using Mixed Resource Demand Response to Address Over and Under Supply of Electricity**  
*Ethan Barquest, Verdant Associates*

### SESSION 2 (10:30 am - 12:00 pm)

**A Decarbonized Future - What is the Gas Utility's Role**

**Defining the Role of Gas Utilities in a Decarbonized Energy Future**  
*Essie Snell, ICF*

**What is the Role of Fuels in a Decarbonized Future? What is the Potential Role for Gas Utilities?**  
*Steve Nadel, ACEEE*

**Hawaii’s Path to Decarbonization: Keeping the Lights On as the Last Coal Plant Turns Off**  
*Caroline Carl, Leidos*
**Panel 6: Utilities and the Future**  
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<td>Including what Matters - Emerging Metrics and Tools for Planning the Utility of the Future</td>
<td>Utility Planning and Programs - Lessons Learned from Including Equity in the Mix</td>
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| *Moving the Target – Evolving Portfolio Metrics from EE to GHG*  
  JJ Vandette, VEIC | *One Utility’s Journey to Systematically Gain Focus on Equity*  
  Presented by: Sepideh Rezania, Innovation Insites  
  & Joseph Fernandi, Seattle City Light  
  (Lead Author: Lori Moen, Seattle City Light) |
| *A Utility’s Clean Energy Equity Plan*  
  Jennifer Finnigan, Seattle City Light | *Lessons Learned from a Small Good-Will Project: Installing Heat Pump Water Heaters in Black-owned Homes in Portland*  
  Lisa Green, Energy 350 |
| *Climate-Forward Performance Incentives: Rewarding What Matters*  
  Laura Goldberg, Natural Resources Defense Council |
| Learning from the Past and Data from the Present to Model and Predict the Utility of the Future | Let the Data Tell the Story - Enabling Better Utility Programs through Data Analytics |
| *Reimagining Energy Efficiency: Building on a Legacy of Success for Higher Impacts and Value*  
  Dan York, ACEEE | *Bills, Bills, Bills – Can Utility Meter Data Tell the Heat Pump Story?*  
  Patrick Hewlett, DNV |
| *The Deproliferation of Refrigerant Greenhouse Gases*  
  Brad Hoover, DNV | *Data Requirements for Decarbonization through Utility Energy Efficiency Programs*  
  Mike Specian, ACEEE |
| *Electric Utility Rates are Critical to Broad Space-heating Electrification - Data from the Midwest*  
  Carl Nelson, Center for Energy and Environment | *Choosing the Carbon Factor for the Job: Exploring Available Carbon Emissions Factors and the Impact of Factor Selection*  
  Presented by Eric Wilson, National Renewable Energy Laboratory  
  (Lead: Elaina Present, National Renewable Energy Laboratory) |
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<td><strong>Assessment of the Value of Novel Waste Heat Sources and a Path Towards Adoption</strong></td>
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<td><em>Presented by Shanti Pless, National Renewable Energy Laboratory</em></td>
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<td><em>(Lead: Manuel Laemmle, National Renewable Energy Laboratory)</em></td>
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<td><strong>GHG Emissions Reduction Analysis in Commercial Buildings</strong></td>
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<td><strong>Introducing the Distributed District Energy System</strong></td>
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<td><em>Jonathan Bean, The University of Arizona</em></td>
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<td><strong>People and Things - The Infrastructure and Workforce to Support Building Decarbonization</strong></td>
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<td><strong>Residential Electric Service Upgrades for Electrification Retrofits</strong></td>
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<td><em>(Lead: Shoshana Pena, NV5 Inc.)</em></td>
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<td><strong>Aligning Energy Efficiency Programs with a Decarbonization Future</strong></td>
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<td><em>Matthew Woundy, NMR Group, Inc.</em></td>
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<td><strong>Dig Here: Insights from Direct Burial Cable Study and Implications for Electrification</strong></td>
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<td><em>Gomathi Sadhasivan, DNV</em></td>
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