# PANEL 4: COMMERCIAL BUILDINGS: PROGRAM DESIGN, IMPLEMENTATION, AND EVALUATION

(Meeting Room: Evergreen)

Panel Leaders: Sharyn Barata and Sarah Zaleski

<table>
<thead>
<tr>
<th>SESSION 1 (8:30 am - 10:00 am) - Sharyn Barata</th>
<th>SESSION 1 (8:30 am - 10:00 am) - Sara Zaleski</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Zooming Out - Insights Gained through Birdseye View Look at Programs</strong></td>
<td><strong>Evolving Pathways to Decarbonize Buildings</strong></td>
</tr>
</tbody>
</table>
| *Two Decades of ENERGY STAR® - A Retrospective Study of EPA’s ENERGY STAR Buildings Score and Certification*  
  *Bill Von Neida, U.S. Environmental Protection Agency* | *No Reservations - Hotels See the Benefits of Energy Management Systems*  
  *Vestal Tutterow, Lawrence Berkeley National Laboratory* |
| *Evaluating Workforce Programs – Toward Designing More Effective and Creative Interventions*  
  *Riana Johnson, Illume Advising* | *Architects, Engineers, and Contractors—Key to Moving towards a Zero Carbon Future*  
  *Paul Torcellini, National Renewable Energy Laboratory* |
| *Interactions between Demand Flexibility and Energy Efficiency: The Opportunity Cost of Saved Energy*  
  *Imran Sheikh, Western Washington University* | *B-Y-E to C-H-P - How One C&I Program Evolved to Support Decarbonization*  
  *Jake Fuller, EcoMetric Consulting* |

**MONDAY, AUGUST 22**

<table>
<thead>
<tr>
<th>SESSION 2 (10:30 am - 12:00 pm) - Sarah Zaleski</th>
<th>SESSION 2 (10:30 am - 12:00 pm) - Sharyn Barata</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Transitioning Policy into Program Design</strong></td>
<td><strong>Innovations in Commercial Program Evaluation</strong></td>
</tr>
</tbody>
</table>
| *Accelerating State-wide Benchmarking Laws into Programs of the Future*  
  *Presented by: Beth Robinweiler, Puget Sound Energy and Samantha Ip, Stillwater Energy*  
  *(Lead Author: Chad Gilless, Stillwater Energy)* | *All About That Baseline - An Evaluation of Demand Response Baseline Performance for Generation and High Frequency Event*  
  *Ethan Barquest, Verdant Associates* |
| *Maximizing Public Sector Energy Efficiency Programs: Adapting to Policy through Innovative Design*  
  *Pranesh Venugopal, The Energy Coalition* | *Enhancing California’s NMEC Programs; Technical Reviewer’s Perspective*  
  *Arash Kialashaki, Pacific Gas & Electric Company* |
| *Building Performance Standards: A Lifecycle Approach to Building Decarbonization*  
  *Harry Bergmann, U.S. Department of Energy* | *CalTRACK and Commercial Buildings: Confronting COVID and Other Non-Routine Events*  
  *Stephanie Bieler, Demand Side Analytics* |

8/6/2022

DRAFT (Subject to Change)
# PANEL 4: COMMERCIAL BUILDINGS: PROGRAM DESIGN, IMPLEMENTATION, AND EVALUATION

(Meeting Room: Evergreen)

Panel Leaders: Sharyn Barata and Sarah Zaleski

<table>
<thead>
<tr>
<th>SESSION 1 (8:30 am - 10:00 am) - Sharyn Barata</th>
<th>SESSION 1 (8:30 am - 10:00 am) - Sarah Zaleski</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SESSION TO BE BROADCASTED</strong></td>
<td><strong>New Approaches for Serving Hard-to-Reach Commercial Markets</strong></td>
</tr>
<tr>
<td><strong>Time to Flex - Toning up EE, Flexibility, and Demand Response</strong></td>
<td><strong>Investing in Main Street: an Energy Program to Support Small Businesses in Disadvantaged Communities</strong></td>
</tr>
<tr>
<td>- When Do Efficiency and Demand Flexibility Go Hand-in-hand?</td>
<td>- Carolyn Greer, Tennessee Valley Authority</td>
</tr>
<tr>
<td>- Jingging Liu, Lawrence Berkeley National Laboratory</td>
<td><strong>Opportunities to Decarbonize Small Commercial Buildings</strong></td>
</tr>
<tr>
<td>- Ian Metzger, TRC Companies</td>
<td>- Developing an Online Application that Puts the Customers and the Utility First</td>
</tr>
<tr>
<td>- Demand FLEXmarket — Creating a Market Access Model to Unleash Solutions Providers and Scale Demand Flexibility</td>
<td>- Katie Cary, TRC</td>
</tr>
<tr>
<td>- Carmen Best, Recurve</td>
<td><strong>Equitably Expanding Access to Commercial Energy Opportunities</strong></td>
</tr>
<tr>
<td><strong>SESSION 2 (10:30 am - 12:00 pm) - Sharyn Barata</strong></td>
<td><strong>Commercial Buildings in Communities with Different Income and Racial Characteristics: A Comparison of Energy Efficiency and Fuel Sources</strong></td>
</tr>
<tr>
<td><strong>People Power - Recognizing and Harnessing the Human Dimension</strong></td>
<td>- Tracey Narel, US EPA</td>
</tr>
<tr>
<td>- Tunnel Vision: The Impact of Ignoring Behavior in Technological Innovation</td>
<td><strong>Market Transformation through Equal Impact of 179D</strong></td>
</tr>
<tr>
<td>- Jes Rivas, ILLUME Advising</td>
<td>- Ryan Meyer, National Renewable Energy Laboratory</td>
</tr>
<tr>
<td>- Ignorance is BAS: How EMS/BAS Operator Knowledge Can Impact Performance</td>
<td><strong>DEI: More than a Residential Framework, It’s a Roadmap for Energy Equity</strong></td>
</tr>
<tr>
<td>- Christopher Dyson, DNV</td>
<td>- Chad Gilless, Stillwater Energy</td>
</tr>
<tr>
<td>- Observational Research Methods for Evaluating Emerging Technologies for the Built Environment</td>
<td><strong>SESSION 2 (10:30 am - 12:00 pm) - Sarah Zaleski</strong></td>
</tr>
<tr>
<td>- Ruth Taylor, Pacific Northwest National Laboratory</td>
<td><strong>Comparative Analysis and Trends of Energy Efficiency and Demand Management Program Budgets and Savings Impact Across the U.S.</strong></td>
</tr>
<tr>
<td><strong>SESSION 2 TO BE BROADCASTED</strong></td>
<td>- Ian Metzger, TRC Companies</td>
</tr>
</tbody>
</table>

**WEDNESDAY, AUGUST 24**

**SESSION 1 (8:30 am - 10:00 am)** - Sharyn Barata

- Commercial Buildings in Communities with Different Income and Racial Characteristics: A Comparison of Energy Efficiency and Fuel Sources
  - Jes Rivas, ILLUME Advising
  - Tracey Narel, US EPA

**SESSION 2 (10:30 am - 12:00 pm)** - Sharyn Barata

- Tunnel Vision: The Impact of Ignoring Behavior in Technological Innovation
  - Christopher Dyson, DNV
- Observational Research Methods for Evaluating Emerging Technologies for the Built Environment
  - Ruth Taylor, Pacific Northwest National Laboratory

**THURSDAY, AUGUST 25**

**SESSION 2 (10:30 am - 12:00 pm)** - Sarah Zaleski

- Equitably Expanding Access to Commercial Energy Opportunities

- Commercial Buildings in Communities with Different Income and Racial Characteristics: A Comparison of Energy Efficiency and Fuel Sources
  - Tracey Narel, US EPA
- Market Transformation through Equal Impact of 179D
  - Ryan Meyer, National Renewable Energy Laboratory
- DEI: More than a Residential Framework, It’s a Roadmap for Energy Equity
  - Chad Gilless, Stillwater Energy
### SESSION 1 (8:30 am - 10:00 am) - Sharyn Barata

**Emerging Technologies for Evolving Market Needs**

*Advanced Lighting Systems in Smart Buildings: Findings and Lessons Learned from the U.S. Department of Energy Integrated Lighting Campaign and 10 Field Evaluations*

*Felipe Leon, Pacific Northwest National Laboratory*

*New Product Development: How to Keep the DSM Product Pipeline Flowing*

*Jeremy Kraft, TRC*


*Kristen Taddonio, Institute for Governance & Sustainable Development*

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

**Diving Deep: Sector-Specific Insights on High-Impact Opportunities**

*Innovative Kitchen Management Application Test and Learn Project*

*Liza Legaspi, Southern California Gas Company*

*Driving Deeper Operational Savings in SMB Facilities through Virtual Commissioning Using Real-Time, 1-Minute Interval Energy Usage Data*

*Rick Tonielli, ComEd*

*Towards Climate-smart Hospitals: Insights from India’s First Nationwide Hospital Energy Survey*

*Presented by Satish Kumar, Alliance for an Energy Efficient Economy*

*(Lead: Akash Goenka, Alliance for an Energy Efficient Economy)*