



**The 2025 Summer Study on Energy Efficiency in Industry**  
**“Industrial Competitiveness and the Evolving Energy Landscape”**

**(DRAFT) PROGRAM**

**UNC Charlotte Marriott Hotel and Conference Center**  
**Charlotte, NC**  
**July 16-18, 2025**

Welcome to ACEEE's 16<sup>th</sup> biennial Summer Study on Energy Efficiency in Industry, "Industrial Competitiveness and the Evolving Energy Landscape." The theme could not be more timely given this year's macroeconomic changes. Experts from around the globe will gather to discuss the policies, funding, operations, and technologies essential to sustaining industrial competitiveness, for individual firms and the sector at large. We will explore how partnerships are key to success, and we will compare national and state policy to identify immediate and long-term opportunities.

Immerse yourself over three days in workshops, track and informal sessions, Plenaries, and networking time. The conference will kick off with side events such as the SEM Summit and Industrial Heat Pumps Buyers Bootcamp on Wednesday, July 16. Continue Thursday and Friday with Plenaries featuring key leaders in the industrial space and four Track session options: Track 1: Grids, Pipes, and Funding; Track 2: Technology and Operations; Track 3: Bringing New Energy to Leadership; and Track 4: Collaborating through Complexity: Navigating Industrial Value Chains. You will leave the Summer Study with an expanded network and an action plan to meet your goals.

## PLANNING COMMITTEE

### CO-CHAIRS:

Ammi Amarnath, Electric Power Research Institute (EPRI)  
Evelyn Lundhild, Independent Electricity System Operator (IESO)

### TRACK LEADERS:

#### **Track 1: Grids, Pipes, and Funding**

Steven Coley, TVA  
Baskar Vairamohan, EPRI

#### **Track 2: Technology and Operations**

William Peter, Oak Ridge National Laboratory  
John Seryak, Go Sustainable Energy

#### **Track 3: Bringing New Energy to Leadership**

Wendy Gibson, Stillwater Energy  
Andrew Knox, Goldfin Consulting

#### **Track 4: Collaborating through Complexity: Navigating Industrial Value Chains**

Fiona Glasford, IESO  
Andrea Marr, Cadmus Group

### ACEEE STAFF:

Conferences: Amelia Armstrong, Rebecca Lunetta

Program: Richard Hart, Steve Nadel, Maggie Kelley Riggins

Communications: Camron Assadi, Mary Robert Carter, Kate Doughty, Rob Kerns, Nick Roper, Ben Somberg

Development: Alan Raymond

# (DRAFT) PROGRAM

Wednesday, July 16

8:00 am – 5:30 pm

**Add on: SEM Summit (\$150)**

Kick off your 2025 Summer Study with the North American Strategic Energy Management (SEM) Collaborative at the ninth annual SEM Summit and second annual in-person SEM Awards! At this year's Summit, attendees will get to spend time catching up with one another, digging deeper than ever before as we move to introducing different tracks based on level of experience, and collaborating on making each other better. We will also reflect on what we have accomplished, with highlights from our working groups and announce the SEM Award winners. So, whether you are new to the work or a seasoned professional, there is something for you at the Summit.

9:00 am – 5:00 pm

**Add on: Industrial Heat Pump (IHP) Buyers Bootcamp (\$50) - by invitation only**

The IHP Buyers Bootcamp is designed for industry professionals, energy managers, and facility operators looking to deepen their understanding of industrial heat pumps. This full-day interactive program will equip participants with the technical knowledge, financial tools, and strategic insights necessary to evaluate, plan, and execute successful IHP projects. From technical integration to securing financing and navigating utility considerations, attendees will leave Bootcamp with actionable strategies to advance their IHP projects. Please reach out to [hchen@aceee.org](mailto:hchen@aceee.org) if you are interested, and we will provide a code for you to register.

3:00 – 7:00 pm

**Registration opens.**

5:00 – 7:00 pm

**Welcome Reception**

Join us to officially kick-off the Summer Study at the Welcome Reception. Enjoy networking time and re-connecting with friends.

Wednesday, July 16

## Thursday, July 17

7:00 am – 5:00 pm

### Registration

7:30 – 8:30 am

### Breakfast

8:30 – 10:00 am

### Plenary Session

Welcome: Steve Nadel, Executive Director, ACEEE

Moderator: TBD

Speaker: TBD

10:00 – 10:30 am

### Networking Break

10:30 am – 12:00 pm

### Concurrent Track Sessions 1

#### Track 1, Session 1 Virtual Power Plants

Moderator: TBD

*Enhancing Grid Reliability, Resilience, and Affordability:  
Industry Collaboration with Utilities and Governments  
through Virtual Power Plants*

Sun Joo Hwang, University of North Carolina at Chapel Hill

*Predictive Modeling of Power Demand at Industrial Sites  
for Enhanced Energy Management*

Scott Jasinski, Energy 350

*Incentivizing Permanent Load Shifting*

Peter Sharp, Cascade Energy

#### Track 2, Session 1

### Emerging Strategies for Global Energy Competitiveness

Moderator: TBD

*Impacting Energy and Operational Performance  
through Smart Manufacturing*

Haresh Malkani, CESMII

*Decarbonizing Industrial Operations through  
Load Flexibility*

Sapna Dixit, Olivine Inc.

*Industrial Waste Reduction: Unlocking Hidden Energy  
Efficiency Potential in Product Supply Chains*

Subodh Chaudhari, Oak Ridge National Laboratory

**Track 3, Session 1**

**Training the Workforce that Leaders Need**

Moderator: TBD

*Creating Energy Efficient Cultures at Colleges and Universities  
Using a Strategic Energy Management Program*

Dana Mowry, Eversource Energy

*Empowering the Energy Transition: Strategies for Developing  
a Skilled and Resilient Workforce*

Quinn Parker, Encolor

*Integrated Energy Management Training for Creating the  
Next Generation of Strategic Energy Managers*

Vi Rapp, Lawrence Berkeley National Laboratory

**Track 4, Session 1**

**Measuring and Quantifying Change**

Moderator: TBD

*An Allocation-based Tool for Quantifying  
Facility-level Product Emissions Intensity*

Nick Karki, Lawrence Berkeley National Laboratory

*ISO 50100: Establishing a Global Standard for Industrial  
Decarbonization and Leadership*

Peter Therkelsen, Lawrence Berkeley National Laboratory

*What We Learned from Evaluating Low Carbon Electrification Projects*

Markus Zeller, BC Hydro

12:00 – 1:30 pm

**Scholar & Awards Recognition Lunch**

Scholar Program Introduction: TBD

Scholar Appeal: TBD

Scholar recipients recognized.

Award Program Introduction: TBD

Award recipients recognized.

1:30 – 3:00 pm

## Concurrent Track Sessions 2

### Track 1, Session 2 Industrial Heat Pumps

Moderator: TBD

*A Market in Transition: Industrial Heat Pumps in the United States*  
Ruth Checknoff, Renewable Thermal Collaborative

*The Thermal Balancing Act: Evaluating Heat Pump Opportunities for Industries in Minnesota*

David Bohac, Center for Energy and Environment

*RD&D Priorities for Industrial Heat Pumps*  
Zachary Pritchard, US Department of Energy

### Track 2, Session 2 Collaborative Industrial Energy Programs and Thought Leadership

Moderator: TBD

*Industrial Research and Development Priorities*  
Joe Cresko, US Department of Energy  
or Joe Powell, University of Houston

*Accelerating Industrial Competitiveness through the DOE's Industrial Technology Validation (ITV) Program*  
Amy Pevzner, Lawrence Berkeley National Laboratory

*Successful Organizational Strategies from Better Climate Challenge Partners*  
John O'Neill, US Department of Energy

### Track 3, Session 2 Giving Leadership a Boost

Moderator: TBD

*The Role of Leadership in Implementing 50001 Ready*  
Heidi Fuchs, Lawrence Berkeley National Laboratory

*Save on Energy's Training and Support for Energy Efficiency in Industrial Process*  
Michael Oriahi, IESO

*Identifying Effective Energy Audit Candidate Facilities via Novel Metrics*  
Miles Nevills, Oak Ridge National Laboratory

**Track 4, Session 2**

**Cross Country Collaborations and Learnings**

Moderator: TBD

*Navigating Decarbonization in the Consumer Product Industry*

Evan Talan, Adidas

*Transformative Technologies and Strategies That Can Get Us to Net Zero*

Brooke Gobster, Cascade Energy

*Sustainability as a Service: A Scalable Model for Utilities to*

*Drive Industrial Energy Efficiency*

Brooke Gobster, Cascade Energy

*Bridging Silos: A Dialogue on Industrial Symbiosis for*

*Enhanced Industrial Efficiency*

Rhys Roth, Center for Sustainable Infrastructure

3:00 – 3:30 pm

**Networking Break**

3:30 – 5:00 pm

**ACTION and INFORMAL SESSION(S)**

**TBD**

Co-Organizers: TBD

Panelists: TBD

## Friday, July 18

7:00 am – 3:30 pm

### Registration

7:30 – 8:30 am

### Breakfast

8:30 – 10:00 am

### Track 1, Session 3 Large Loads

Moderator: TBD

*Date Center Energy Efficiency*

Kennedy Bennett, SC Coastal Conservation League

*Energy Efficiency & Demand Flexibility for Data Centers*

Rishabh Juneja, US Department of Energy

*Electricity Rate Designs for Large Loads:*

*Evolving Practices and Opportunities*

Andrew Satchwell, Lawrence Berkeley National Laboratory

### Track 2, Session 3 Industrial Process Heating

Moderator: TBD

*Energy Efficient and Fuel Flexible Technologies for the Metals Industry*

Sandeep Alavandi, GTI Energy

*Decarbonizing California's Industry with Hydrogen:*

*Industrial Testing Results*

Paul Glanville, GTI Energy

*Decarbonizing Low Temperature Industrial Heat:*

*Measuring Economic Potential and Policy Mechanisms*

Rawley Loken, E3

### Track 3, Session 3 Leadership to Meet Today's Challenges

Moderator: TBD

*Redefining Leadership: Driving Industrial Energy Efficiency for a Sustainable Future*

Kenny Porter, Michaels Energy

*Energizing Change: The Synergy of Efficiency and*

*Decarbonization for a Sustainable Tomorrow*

Sharon Nolen, Eastman

*Leveraging Resilience Planning as an Industrial Strategic Advantage*

Julia Rotondo, Pacific Northwest National Laboratory



**Track 4, Session 3**

**Communicating Supply Chain Value**

Moderator: TBD

*Thriving in the Carbon-aware Market: How to Account for Emissions in the Era of Carbon-centered Trade Policies*

Prakash Rao, Lawrence Berkeley National Laboratory

*Counting the Carbon: Assessing the Societal Costs and Benefits of Embodied Carbon as a Net Zero Policy*

Derek Okada, Energy Solutions

*Bridging the Gap: Collaborative Finance for Energy Transition in Value Chains*

Hemang Nerlekar, Guidehouse

10:00 – 10:30 am

**Networking Break**

10:30 am – 12:00 pm

**Concurrent Panel Sessions 2**

**Track 1, Session 4**

**Industrial Energy Efficiency**

Moderator: TBD

*Fan Efficiency Programs and the Industrial Sector; a Coordinated Effort to Effectively Transform the Market*

Kristen Aramthanapon, Northwest Energy Efficiency Alliance

*Scaling Efficiency Projects at Industrial Sites via a Study-Based Utility Offering*

Andrea McKenna, Cascade Energy

*Overcoming Barriers to Energy Efficiency for More Competitive and Resilient Energy-Intensive Industries*

Senthil Kumar Sundaramoorthy, Oak Ridge National Laboratory

**Track 2, Session 4**

**Energy Potential and Trends in US Industry**

Moderator: TBD

*US Industrial Sector Combined Heat and Power: Decarbonization Help or Hindrance?*

Aidan Oneil, UCSB

*Shrinking Giants: How Utility Programs Can Help Data Centers Lead the Way in Energy Efficiency*

Amy Summers, Energy Trust New Buildings Program

*Technical Potential for Onsite PV and Wind Power at U.S. Manufacturing Facilities*

Matt Leach, National Renewable Energy Laboratory

**Track 3, Session 4**

**Tools for Leadership in a Time of Uncertainty**

Moderator: TBD

*Level Up Your Delivery: Free resources to support SEM programs*

Dave Hall, Energy 350

*JUSTIFI: Software for Improving Performance Objectives via Energy Efficiency*

Sarah Cooney, National Renewable Energy Laboratory

*Heroic Leadership in Challenging Times: Empowering Teams to Overcome Setbacks*

Lisa Bennett

**Track 4, Session 4**

**One Size Does Not Fit All: Examples from Across Industry**

Moderator: TBD

*Advancing Energy Efficiency Adoption in U.S.*

*Energy-Intensive Industries: Insights from the ITAC Database*

Asma Khasawneh, University of Wisconsin

*Unlocking Industrial Decarbonization: One Size Does Not Fit All*

Amit Kanungo, DNV

*The US DOE's Industrial Demonstrations Program: What's the Latest?*

Archie Fraser, ACEEE

12:00 – 1:30 pm

**Lunch Plenary**

Avi Shultz, US Department of Energy

1:30 – 3:00 pm

**“Office Hours”**

Continue the discussion around Action Plans

3:00 – 3:30 pm

**Networking Break**

3:30 pm

**Conference Ends**

Thanks for joining us!