



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

**PROGRAM**

*Updated 7.14.25*

**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 timelier 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

# PROGRAM

Wednesday, July 16

9:00 am – 5:00 pm

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

Mallard Creek

The IHP Buyers Bootcamp is designed for industrial end-users (i.e., facility managers and sustainability engineers) 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 the Bootcamp with actionable strategies to advance their IHP projects. Please reach out to [hchen@aceee.org](mailto:hchen@aceee.org) if you have any questions.

11:00 am – 5:30 pm

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

The 49er

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.

3:00 – 7:00 pm

**Registration opens**

Sorensen Lobby

5:00 – 7:00 pm

**Welcome Reception**

Dubois Plaza

Welcome: Tim Duff, Duke Energy

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

Wednesday, July 16

## Thursday, July 17

7:00 am – 5:00 pm	<b>Registration</b>	Sorensen Lobby
7:30 – 8:30 am	<b>Breakfast</b>	Crown IV and V
8:30 – 10:00 am	<b>Plenary Session</b> Welcome: Steve Nadel, Executive Director, ACEEE Introduction: Dan Brown, CEO, Cascade Energy Moderator: Maggie Kelley Riggins, Director of Community Solutions, ACEEE <b><i>Forging Ahead: Industrial Growth in a Changing Energy and Market Landscape</i></b> Session Topic: North Carolina is witnessing a transformative wave of industrial and manufacturing investments, reshaping the state's economic landscape while emphasizing the need for robust infrastructure and strategic foresight. This high-level panel brings together leading voices from across the industrial sector to explore the forces driving growth and the challenges that come with it. These leaders will provide insights into what it takes to build a globally competitive industrial base in a rapidly evolving environment. The discussion will include: <ul style="list-style-type: none"><li>• Electricity adequacy in the face of rising demand and the energy transition,</li><li>• The complexities of market transformation,</li><li>• Strategies for resilient supply chains,</li><li>• The pursuit of internal efficiency, and</li><li>• Their companies' needs for supportive policies</li></ul> Panelists: Carley Goff, Southern Company Jess Alcorn, Guidehouse Kevin Martin, CUCA Oakley Roberts, Trane Technologies	The 49er
10:00 – 10:30 am	<b>Networking Break</b> <i>sponsored by</i> <b>EASTMAN</b> <small>Eastman Chemical Company</small>	Sorensen Lobby
10:30 am – 12:00 pm	<b>CONCURRENT TRACK SESSIONS 1</b> <b>Track 1, Session 1</b> <b>Virtual Power Plants</b> Moderator: Steven Coley, TVA <i>Enhancing Grid Reliability, Resilience, and Affordability: Industry Collaboration with Utilities and Governments through Virtual Power Plants</i> Sun Joo Hwang, University of North Carolina at Chapel Hill <i>Predictive Modeling of Power Demand at Industrial Sites for Enhanced Energy Management</i> Justin Ramsay, Energy 350 (presenting on behalf of Scott Jasinski, Energy 350) <i>Incentivizing Permanent Load Shifting</i> Peter Sharp, Cascade Energy	Crown I, II, III

Thursday, July 17

**CONCURRENT TRACK SESSIONS 1** (continued)

**Track 2, Session 1**

49er Green

**Emerging Strategies for Global Energy Competitiveness**

Moderator: Bill Peter, Oak Ridge National Laboratory

*Impacting Energy and Operational Performance  
through Smart Manufacturing*

Haresh Malkani, CESMII

*Decarbonizing Industrial Operations through  
Load Flexibility*

Felipe Godinez, Olivine Inc.

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

Subodh Chaudhari, Oak Ridge National Laboratory

**Track 3, Session 1**

49er Gold

**Training the Workforce that Leaders Need**

Moderators: Wendy Gibson, Stillwater Energy and  
Andrew Knox, Goldfin Consulting

*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*

Barbara Stapleton, The JPI Group

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

Vi Rapp, Lawrence Berkeley National Laboratory

**Track 4, Session 1**

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**Measuring and Quantifying Change**

Moderator: Ammi Amarnath, EPRI

*An Allocation-based Tool for Quantifying  
Facility-level Product Intensities*

Nick Karki, Lawrence Berkeley National Laboratory

*ISO 50100: Ensuring Fairness and a Level Playing Field  
for Manufacturers in Global Emissions Reporting and International  
Trade*

Peter Therkelsen, Lawrence Berkeley National Laboratory

*What We Learned from Evaluating Low Carbon Electrification Projects*

Peter Therkelsen, Lawrence Berkeley National Laboratory

(presenting on behalf of Markus Zeller, BC Hydro)

12:00 – 1:30 pm

**Lunch: Scholar & Awards Recognition  
with Guest Speaker**

Scholar Program Introduction and Appeal:  
ACEEE Board Members Mark Johnson, Clemson  
University and Sharyn Barata, Opinion Dynamics

*Scholar recipients recognized.*

Champion Awards Introduction: Steve Nadel, ACEEE  
Award recipients recognized.

Moderator: Ammi Amarnath, EPRI

***Clean Power for Industrial Customers***

Guest Speaker: Neva Espinoza, EPRI

Crown IV and V

1:30 – 3:00 pm

**CONCURRENT TRACK SESSIONS 2**

**Track 1, Session 2  
Industrial Heat Pumps**

Moderator: Baskar Vairamohan, EPRI

*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*

John Flanagan, Center for Energy and Environment

*RD&D Priorities for Industrial Heat Pumps*

Kashif Nawaz, Oak Ridge National Laboratory

Crown I, II, III

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

Moderator: Bill Peter, Oak Ridge National Laboratory

*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*

Blake Billings, Oak Ridge National Laboratory

(presenting on behalf of John O'Neill, US DOE)

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1:30 – 3:00 pm

**CONCURRENT TRACK SESSIONS 2** (continued)

**Track 3, Session 2**

49er Gold

**Giving Leadership a Boost**

Moderators: Wendy Gibson, Stillwater Energy and  
Andrew Knox, Goldfin Consulting

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

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

**Track 4, Session 2**

Mallard Creek

**Cross Country Collaborations and Learnings**

Moderator: Andrea Marr, Cadmus Group

*Navigating Decarbonization in the Consumer Product Industry*  
Evan Talan, Adidas

*Transformative Technologies and Strategies That Can Get Us  
to Net Zero*  
Josh Brugeman, Fresh Coast Climate Solutions

*Bridging Silos: A Dialogue on Industrial Symbiosis for  
Enhanced Industrial Efficiency*  
Rhys Roth, Center for Sustainable Infrastructure

3:00 – 3:30 pm

**Networking Break**

Sorensen Lobby

3:30 – 5:00 pm

**ACTION SESSIONS**

**Learning from Leaders in Industrial GHG  
Emissions Reduction**

Crown I, II, III

Through the Better Climate Challenge, the U.S. Department of Energy continues to work with domestic manufacturers to set and achieve their ambitious greenhouse gas emission reduction targets. To date, twelve industrial companies have achieved their first portfolio-level emission reduction goal with the program. All have made impressive progress, though each has taken a different pathway to reach this accomplishment. In this session, partner companies will join program staff to discuss their pathways, exploring the barriers they faced along the way, the solutions employed to overcome those barriers, and where they go from here.

Moderator: Alexandra Botts, Oak Ridge National Laboratory

Panelists: Kevin Durocher, ABB, Inc.  
Scott Tew, Trane Technologies  
Rishabh Bahel, Nestlé Purina  
Scott Anliker, HNI Corporation

3:30 – 5:00 pm

**ACTION SESSIONS** (continued)

**Bridging Silos: Industrial Symbiosis for Enhanced Industrial Efficiency**

Crown V

Industrial symbiosis is the idea of cross-industry collaboration to use waste streams and resources more efficiently. This panel brings together experts and practitioners with valuable experience with industrial symbiosis in diverse contexts. The session will explore experiences and lessons learned from industrial parks established in Denmark, and highlight relevance in the US context, including value creation, technical implementation, regulatory frameworks, and cross-sector collaboration. The discussion will dive into strategies for overcoming traditional silos and building trust among stakeholders. The panel is moderated by the Center for Sustainable Infrastructure (CSI).

Moderator: Sarah Diemar, Danish Ministry of Foreign Affairs

Panelists: Rhys Roth, Center for Sustainable Infrastructure  
Christopher Sorensen, GreenLab

**Community Solutions in Action: Building Meaningful Partnerships between Industry and Communities**

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How can industrial stakeholders and communities work together to create lasting, tangible benefits for all? Whether you're just beginning to explore community engagement or are already implementing community benefits strategies in your work, this action session is for you. Join us for a dynamic, hands-on conversation that brings together diverse voices across industry, government, and community sectors. Together we will examine the real-world challenges and opportunities of aligning industrial development and operations with community priorities. Through interactive dialogue, we will explore what may be needed from the industry to ensure meaningful partnerships, tangible trust, and how to deliver shared value that is equitable and measurable. This session is designed to move beyond discussion—toward action. Come ready to share, learn, and contribute to shaping the future of community benefits in industrial development.

Facilitator: Maggie Kelley Riggins, ACEEE



7:00 am – 3:00 pm	<b>Registration</b>	Sorensen Lobby
7:30 – 8:30 am	<b>Breakfast</b> - and - <b>Women in Energy Efficiency Breakfast</b> <i>sponsored by CLEAResult®</i> <i>(Breakfasts set up as shared buffet in Crown Foyer)</i> Moderator: Maggie Kelley Riggins, ACEEE <b>Powering Progress: Women Leading the Charge in Energy Efficiency &amp; Demand-Side Management</b> Sarah Spencer Workman, Vice President of Energy Efficiency, CLEAResult	Crown IV Crown V
8:30 – 10:00 am	<b>CONCURRENT TRACK SESSIONS 3</b>  <b>Track 1, Session 3</b> <b>Large Loads</b> Moderator: Baskar Vairamohan, EPRI <i>Data Center Energy Efficiency</i> Kennedy Bennett, SC Coastal Conservation League  <i>Electricity Rate Designs for Large Loads: Evolving Practices and Opportunities</i> Natalie Mims Frick, Lawrence Berkeley National Laboratory  <i>Energy Efficiency and Demand Flexibility for Data Centers</i> Rishabh Juneja, U.S. Department of Energy  <b>Track 2, Session 3</b> <b>Industrial Process Heating</b> Moderator: John Seryak, Go Sustainable Energy <i>Energy Efficient and Fuel Flexible Technologies for the Metals Industry</i> Sandeep Alavandi, GTI Energy  <i>Decarbonizing California's Industry with Hydrogen: Industrial Testing Results</i> Paul Glanville, GTI Energy  <i>Decarbonizing Low Temperature Industrial Heat: Measuring Economic Potential and Policy Mechanisms</i> Rawley Loken, E3	Crown I, II, III  49er Green

8:30 – 10:00 am

**CONCURRENT TRACK SESSIONS 3** (continued)

**Track 3, Session 3**

**Leadership to Meet Today's Challenges**

Moderators: Wendy Gibson, Stillwater Energy and  
Andrew Knox, Goldfin Consulting

*Redefining Leadership: Driving Industrial Energy Efficiency*  
Kenny Porter, Michaels Energy

*Energizing Change: The Synergy of Efficiency and  
Decarbonization for a Sustainable Tomorrow*  
Sharon Nolen

*Leveraging Resilience Planning as an Industrial Strategic  
Advantage*  
Julia Rotondo, Pacific Northwest National Laboratory

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**Track 4, Session 3**

**Communicating Supply Chain Value**

Moderator: Richard Hart, ACEEE

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

Liz Wachs, National Renewable Energy 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

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10:00 – 10:30 am

**Networking Break**

Sorensen Lobby

10:30 am – 12:00 pm

**CONCURRENT TRACK SESSIONS 4**

**Track 1, Session 4**

**Industrial Energy Efficiency**

Moderator: Steven Coley, TVA

*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*  
Mark Hamann, ComEd

*Overcoming Barriers to Energy Efficiency for More  
Competitive and Resilient Energy-Intensive Industries*  
Senthil Kumar Sundaramoorthy, Oak Ridge National Laboratory

Crown I, II, III

**Track 2, Session 4**

**Energy Potential and Trends in US Industry**

Moderator: John Seryak, Go Sustainable Energy

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

Eric Masanet, UCSB

*Shrinking Giants: How Utility Programs Can Help  
Data Centers Lead the Way in Energy Efficiency*  
Steely Cortes, Energy Trust of Oregon

*Technical Potential for Electricity Generating Onsite Energy  
Technologies at U.S. Manufacturing Facilities*  
Blake Billings, Oak Ridge National Laboratory

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**Track 3, Session 4**

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

Moderators: Wendy Gibson, Stillwater Energy and  
Andrew Knox, Goldfin Consulting

*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

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**Track 4, Session 4**

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

Moderator: Andrea Marr, Cadmus Group

*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*

Koushik Mandlem, DNV

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

Archie Fraser, ACEEE

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12:00 – 1:30 pm

### Lunch Plenary

Moderator: Richard Hart, ACEEE

#### ***Energy Efficiency as the Foundation for America's Global Competitiveness and National Security***

Speaker: Gene Rodrigues, Assistant Secretary of Energy, US DOE (retired)

Crown IV and V

1:30 – 3:00 pm

### Shared Interest Topic Tables

Crown IV and V

As you finalize your takeaways from Summer Study, you'll want to compare notes with your colleagues. These afternoon sessions provide optional "birds-of-a-feather" tables to discuss takeaways from sessions, the opportunities for collaboration, and plans for the next 12 months. These 90-minute sessions will be led by a volunteer, noted by ACEEE, and focused on action. Topics include: AI for DSM, technology deployment, financing, industrial workforce, industrial load flexibility, state policy and regulations, and future of DSM programs. New topic suggestions are welcome!

3:00 pm

### Conference Ends

Thanks for joining us!