



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

(DRAFT) PROGRAM

Updated 7.2.25

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

Welcome to ACEEE's 16th 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

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Wednesday, July 16

11:00 am – 5:00 pm

Add on: SEM Summit (\$150)

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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) Alliance Buyers Bootcamp (\$50)

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by invitation only

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 if you have any questions.

3:00 – 7:00 pm

Registration opens

Sorensen Lobby

5:00 – 7:00 pm

Welcome Reception

Dubois Plaza

Welcome: Lon Huber, Senior VP, Pricing and Customer Solutions, 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	Registration	Sorensen Lobby
7:30 – 8:30 am	Breakfast	Crown IV and V
8:30 – 10:00 am	Plenary Session Welcome: Steve Nadel, Executive Director, ACEEE Introduction: Dan Brown, CEO, Cascade Energy Moderator: Maggie Kelley Riggins, Director of Community Solutions, ACEEE <i>Forging Ahead: Industrial Growth in a Changing Energy and Market Landscape</i> 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">• Electricity adequacy in the face of rising demand and the energy transition,• The complexities of market transformation,• Strategies for resilient supply chains,• The pursuit of internal efficiency, and• Their companies' needs for supportive policies Panelists: Carley Goff, Southern Company Jess Alcorn, Guidehouse Kevin Martin, CUCA TBD, Trane Technologies	The 49er
10:00 – 10:30 am	Networking Break <i>sponsored by</i> EASTMAN <small>Eastman Chemical Company</small>	Sorensen Lobby
10:30 am – 12:00 pm	CONCURRENT TRACK SESSIONS 1 Track 1, Session 1 Virtual Power Plants 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

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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

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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 Emissions Intensity*

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

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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

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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

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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

7:00 am – 3:30 pm	Registration	Sorensen Lobby
7:30 – 8:30 am	Breakfast - and - Women in Energy Efficiency Breakfast <i>sponsored by CLEAResult®</i> <i>(Breakfasts set up as shared buffet in Crown Foyer)</i> Moderator: Maggie Kelley Riggins, ACEEE Powering Progress: Women Leading the Charge in Energy Efficiency & Demand-Side Management Sarah Spencer Workman, Vice President of Energy Efficiency, CLEAResult	Crown Room IV Crown Room V
8:30 – 10:00 am	CONCURRENT TRACK SESSIONS 3 Track 1, Session 3 Large Loads 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 Track 2, Session 3 Industrial Process Heating 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 Ballroom 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 Ballroom 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

Crown IV and V

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)

1:30 – 3:00 pm

Shared Interest Topic Tables

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 – 3:30 pm

Networking Break

Sorensen Lobby

3:30 pm

Conference Ends

Thanks for joining us!