## 2019 National Conference on Energy Efficiency as a Resource

**PRELIMINARY PROGRAM**

Radisson Blu Minneapolis Downtown • Minneapolis, MN • October 15-17, 2019

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<th>Wednesday, October 16</th>
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<td>7:00 am–6:00 pm</td>
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**Welcome and Introductions**

**Welcome:** Martin Kushler and Dan York, American Council for an Energy-Efficient Economy  
**Introduction:** Steve Nadel, American Council for an Energy-Efficient Economy  

**The Importance of Energy Efficiency in Building a Sustainable Energy Future**  
Keynote Presenter: Patti Poppe, CEO, Consumers Energy

| 9:45 am–10:00 am      | Morning Break       |

| 10:00 am–11:45 am     | Plenary Panel       |

**Regional Round-Up: Utility Energy Efficiency Highlights from Around the United States**

**Moderator:** Rachel Gold, American Council for an Energy-Efficiency Economy

**Presenters:***

- **Nate Kinsey**, California Efficiency + Demand Management Council  
- **Midwest:** Stacey Paradis, Midwest Energy Efficiency Alliance  
- **Northeast:** Susan Coakley, Northeast Energy Efficiency Partnerships  
- **Northwest:** Susan Stratton, Northwest Energy Efficiency Alliance  
- **Southwest:** Howard Geller, Southwest Energy Efficiency Project  
- **South-Central:** Todd McAllister, South-Central Partnership for Energy Efficiency as a Resource  
- **Southeast:** Cyrus Bhedwar, Southeast Energy Efficiency Alliance
Lunch and the opportunity to view and discuss the following poster presentations:

**Sheri Borrelli**, The United Illuminating Company  
Heating Up Demand Response in Low Income Programs

**Nathan Conroy**, STEMHero  
Driving Equitable Adoption of Smart Meter Customer Portals by Making them the Centerpiece of Local STEM Education

**John-Michael Cross**, Environmental and Energy Study Institute  
Switch It Up: A Rural Electrification Financing Case Study

**Roger Ebbage**, Lane Community College  
Building Automation Systems: The Key to Maximizing

**Daygan Fowler**, MyHEAT  
Knowledge Saves Power: Driving Behavioral Change with Energy Made Visible

**Travis Hinck**, GDS Associates  
Leveraging Conservation Tools to Drive Electric Utility Infrastructure Efficiency

**Kara Jonas**, Midwest Energy Efficiency Alliance  
Air Sealing Techniques and the Impact on Indoor Air Quality

**Ben Polly**, National Renewable Energy Laboratory  
Building-, District-, and Large-Scale Modeling of Building Energy Efficiency and Flexibility

**Josh Quinell**, Center for Energy and Environment  
Documenting Real Energy Savings: Computer-controlled Duct Sealing Provides Verified Proof of Results

**Barb Ryan**, Applied Energy Group  
The Camera Doesn’t Lie: Improving Efficiency Data with Picture

**Jeffrey Seewald**, Trane Commercial North America  
Minnesota City Completes Energy and Infrastructure Upgrade with Thermal Storage and Cloud-Based Data Analytics

**Katherine Teiken**, Minnesota Housing; **Ashly McFarlane**, CEE  
Phas II EnergyScoreCards Minnesota

**Keith Tonkinson**, Lincus  
Small Pump Program

**Andrew Whitlock**, American Council for an Energy-Efficient Economy  
Benefits of Electrifying Cross-Cutting Industrial Equipment

**William Xia**, ConEdison  
Oil-to-Electric Conversion Pilot Program
1:15 pm–3:00 pm Breakout Sessions

**EE Programs and Measures Track**

**1A: Industrial Programs**

Next-Level Energy Efficiency: The Future of Large Industrial Opportunities  
Presenter: **Julie-Ann Vincent**, Dunsky Energy Consulting

Strategic Energy Management as a Resource through 50001 Ready  
Presenter: **Peter Therkelsen**, Lawrence Berkeley National Laboratory

Midwest Industrial EE Policy  
Presenter: **Nick Dreher**, Midwest Energy Efficiency Alliance

The Future of CHP Programs: How Today’s Policies are Driving the Evolution of Tomorrow’s CHP Programs  
Presenter: **Meegan Kelly**, ICF

**Assessing EE as a Resource Track**

**1B: Maintaining Aggressive Energy Efficiency Goals**  
**Moderator:** **Grace Relf**, American Council for an Energy-Efficient Economy

Statewide Programs Find Savings Beyond Lighting  
Presenter: **Rebecca Foster**, Efficiency Vermont

When Modeling of Energy Efficiency Gets Real: Connecting the Minnesota Potential Study to Xcel’s Long-Term Carbon Reduction Plans  
Presenters: **Carl Nelson**, Center for Energy and Environment  
**Nick Minderman**, Xcel Energy

Inside a Government Start-Up: Energy Efficiency Alberta’s Quick Start Leads to New Benchmark for Success  
Presenter: **Monica Curtis**, Energy Efficiency Alberta

Policy Implications and Implementation Challenges from Adoption of EE Goals Based on Actual Future Loads vs More Traditional EM&V Methods  
Presenter: **Philip Mosenthal**, Optimal Energy

**EE Multiple Benefits Track**

**1C: Non-Energy Benefits of Energy Efficiency**  
**Moderator:** **Jessica Peterson**, Xcel Energy

Impact of Non-Energy Benefits on the Cost-Effectiveness of Energy Efficiency Is Significant: Case Studies and Approaches for not Undervaluing  
Presenter: **Ali Bozorgi**, ICF

Navigating Policy and Systems Change Approaches to Non-Energy Health Valuation  
Presenters: **Liz Curry** and **Emily Levin**, VEIC

Bringing It Together: Situating Non-Energy Health and Economic Impacts Research in Context of Policy and Evaluation  
Presenter: **Ann Collier**, Opinion Dynamics

Quantifying the Dollar Value of Health Benefits for Building Occupants  
Presenter: **Cassandra Kubes**, American Council for an Energy-Efficient Economy
EE as a Distributed Resource Track

1D: Energy Efficiency as a Distributed Energy Resource

- **Moderator:** Marisa Uchin, Oracle

The Future of Distributed Energy Resource

- **Presenters:** Brian Doyle, Xcel Energy
  - Jenny Roehm, Schneider Electric

Breaking Down Silos: Emerging Opportunities for Integrated EE and DER Programs

- **Presenters:** Corri Waters, American Council for an Energy-Efficient Economy
  - Grace Relf, American Council for an Energy-Efficient Economy

Re-Envisioning the Role of Evaluation to Support the Grid of the Future

- **Presenter:** Hilary Polis, Opinion Dynamics

Los Angeles Department of Water and Power’s Efforts on Integrating DSM and DER as a Reliable Resource Alternatives

- **Presenter:** Armen Saiyan, Los Angeles Department of Water and Power

EE for Targeted Markets Track

1E: Natural Gas Energy Efficiency as a Resource

- **Moderator:** Ian Maddock, MyHEAT

Now More than Ever: The Case for Natural Gas EE in a Time of Low Prices and Electrification

- **Presenter:** Nick Mark, CenterPoint Energy

Energy Efficiency Gas Resources: Providing Relief of Capacity Constraints on Gas-Fired Electric Generation During Polar Vortex Conditions

- **Presenter:** David Dobratz, Eversource

Natural Gas IRP

- **Presenter:** Jeff Mazzei, Enbridge Gas Distribution

3:00–3:30 pm

Afternoon Networking Break

3:30–5:30 pm

Breakout Sessions

EE Programs and Measures Track

2A: Emerging Technology: Lightning Round

How AMI is Directly Creating EE Results: A NMEC/M&V 2.0 Evaluated SMB Program

- **Presenter:** Peter Widmer, Power TakeOff

Safely Scaling Networked Lighting Programs through Device-Level Data

- **Presenter:** Wesley Whited, DNV GL

Emerging AI Tech for Demand Side Management Program Optimization

- **Presenter:** Colin Gibbs, Bidgely

Choice Engines Deliver Visible Efficiency, Empowered Consumers, and Quantifiable Savings

- **Presenter:** Anne Arquit Niederberger, Enervee

Telecommunications: Explosive Growth = Investment – Be Part of the Energy Savings Potential

- **Presenter:** Dean Laube, Franklin Energy
Assessing Energy Efficiency as a Resource Track

2B: Energy Efficiency and Integrated Resource Planning
Moderator: Julia Gauthier, Xcel Energy

Opportunities and Example Practices for Use in Efficiency in Resource Planning
Presenter: Natalie Frick, Lawrence Berkeley National Laboratory

The Level Playing Field for Future Energy Efficiency Potential is Tilted: How to Fix
Presenter: Richard Spellman, GDS Associates

Is It Local? Valuing Energy Efficiency in Distribution Planning
Presenter: Jennifer Edwards, Center for Energy and Environment

Leveling the Playing Field: How to Support Energy Efficiency Competing with Traditional ‘Wires’ Solutions to Meet Regional System Needs
Presenter: Bronwen Smith, IESO

Energy Efficiency Multiple Benefits Track

2C: Innovations in Policy Support for Energy Efficiency
Moderator: Jenah Zweig, US Department of Energy

Policy Drivers to Decarbonize the Built Environment
Presenter: Samantha Caputo, Northeast Energy Efficiency Partnerships

Shaping the Future: Next-Generation Energy Efficiency Targets
Presenter: Annie Gilleo, American Council for an Energy-Efficient Economy

Can Treating Energy Efficiency as a Capital Asset be a more Effective Cost Recovery Tool?
Presenter: Mathieu Poirier, Dunsky Energy Consulting

Supporting Energy Efficiency as a Resource in Connecticut: A New Business Model
Presenter: Stephen Bruno, Eversource

EE as a Distributed Resource Track

2D: Energy Efficiency as a Non-Wires Alternative
Moderator: Tim Pettit, Siemens

Turning Up the Heat: A Non-Wires Alternative Assessment of a Winter Peaking Feeder in Rural Oklahoma
Presenter: David Pudleiner, ICF

Low-Income, Multifamily, and Small Business Customers Deliver New York’s Resource Need through EE
Presenter: Rachel Seraspe, Willdan

Non-Wires Alternatives to Building a New Substation in Washington, DC: Key Takeaways for Other Jurisdictions
Presenter: Kenji Takahashi, Synapse Energy Economics

Efficiency as a Non-Wires Alternative in the Midwest: Lessons from Two Michigan Pilots
Presenter: Chris Neme, Energy Futures Group
EE for Targeted Markets Track

2E: Energy Efficiency for the Low-Income Sector

Moderator: Ariel Drehobl, American Council for an Energy-Efficient Economy

ComEd’s Call for Ideas: Soliciting the Community for New Low-Income Program Concepts
Presenter: Mark Milby, ComEd

Low Income Household EE Potential: New Estimates by Income Level, County, and High-Impact Regions
Presenter: Chioke Harris, National Renewable Energy Laboratory

Scaling Low-Income Energy Efficiency Program Delivery
Presenters: Elizabeth Parsons, Tennessee Valley Authority
Michaela Marincic, Three³

Building Capacity through Resource Efficiency
Presenter: Haven Bills, Southface Institute

6:00 – 7:00 pm  Women in Energy Efficiency Reception

6:30–8:30 pm  Welcome Reception

Thursday, October 17

7:00 am–4:30 pm  Registration

7:00 am–8:00 am  Continental Breakfast

8:00 am–9:45 am  Concurrent Plenary Panels

Plenary Panel I: Energy Efficiency, Decarbonization, and Electrification
Moderator: Steve Nadel, American Council for an Energy-Efficient Economy

Presenters: Ken Colburn, Principal and Director, US Programs, Regulatory Assistance Project
Scott Blunt, Strategic Business Planner II, Sacramento Municipal Utility District
Ryan Bracken, Principal Economist, NW Natural
Abigail Anthony, Commissioner, Rhode Island Public Utilities

Plenary Panel II: Hot Topic to be announced
9:45 am–10:15 am Networking Break

10:15 am–12 pm Breakout Sessions

Energy Efficiency Programs and Measures Track

3A: Natural Gas Energy Efficiency Programs
Moderator: Carter Dedolph, CenterPoint Energy
Cooking with and Saving Gas!
Presenter: Jennifer Parsons, National Grid
Natural Gas Savings in Industry
Presenter: Jerry Zolkowski, DNV GL
The Nexus between Data, Real Gas Savings and Good Building Operation: Why Gas Equipment Rebates are not Enough
Presenter: Marty Davey, New Ecology

Assessing EE as a Resource Track

3B: Issues in Avoided Costs
Rethinking Avoided Costs of EE
Presenters: Audrey Partridge, Center for Energy and Environment
           Joe Daniel, Union of Concerned Scientists
Is It Finally Peak Energy Efficiency (in a good way)?
Presenter: David Nemtzow, US Department of Energy, Building Technologies Office
The Time Value of Energy Efficiency Measures
Presenter: Chris Baker, Willdan Group
Valuing Deferred Transmission and Distribution for Energy Efficiency
Presenter: Tina Jayaweera, Northwest Power & Conservation Council

EE Multiple Benefits Track

3C: Energy Efficiency and the Water-Energy Nexus
Moderator: R. Neal Elliott, American Council for an Energy-Efficient Economy
Redefining Affordability in a Struggling Community Context: Using Energy Efficiency to Help with Water and Energy Affordability in Flint, MI
Presenter: Scott Bernstein, Center for Neighborhood Technology
WISE™ as an Innovative Utility and Public Partnership to Leveraging Energy Efficiency
Presenter: Abhishek Pal, Lincus, Inc.
Leading New Hampshire’s Wastewater Treatment Facilities to Energy Efficiency
Presenter: Mark Toussaint, Eversource
EE as a Distributed Resource Track

**3D: Grid Interactive Efficient Buildings**
- Moderator: Dan W. York, American Council for an Energy-Efficient Economy

Technical Report Series: Opportunities for Energy Efficiency and Flexibility
- Presenter: Monica Neukomm, US Department of Energy

Assessing the Potential for Energy Flexibility Alongside Energy Efficiency
- Presenter: Jared Langevin, Lawrence Berkeley National Laboratory

Grid Interactive Building in the Midwest
- Presenter: Paulomi Nandy, Midwest Energy Efficiency Alliance

Grid Interactive Building Programs in the Southwest
- Presenter: Justin Brant, Southwest Energy Efficiency Project

EE for Targeted Markets

**3E: Energy Efficiency and Market Transformation**
- Moderator: Marci Sanders, Resource Innovations

The Market Transformation Impact of EPA’s ENERGY STAR® Retail Products Platform
- Presenter: Daniel Lawlor, Cadmus

A Market Transformation Framework: Recommendations and Approaches
- Presenter: Kevin Thompson, Southern California Edison

Transforming Markets and Communities through EE Pilot Programs
- Presenter: Kaylan Meinecke, Consumers Energy

12:00 noon–1:15 pm  Lunch and Keynote

The Energy Efficiency Resource Is Larger and Cheaper than You Think
- Keynote Presenter: Amory Lovins, co-founder and chief scientist, Rocky Mountain Institute

1:15 pm–3:15 pm  Breakout Sessions

**EE Programs and Measures Track**

**4A: Commercial Programs**
- Moderator: Jennifer Parsons, National Grid

Turn-Key Smart Building Solutions SMBs
- Presenter: Maria Fields, JouleSmart Solutions, Inc.

Scalable Deep Energy Retrofits in Commercial Buildings
- Presenter: Gwelen Paliaga, TRC

Paving a Path for Community Involvement in Energy Efficiency
- Presenter: Edward Musz, Pepco Holdings Inc.

Turn-Key Services Program Provides Full Circle Solutions: Engaging Businesses with No Cost Energy Efficiency Implementation Services
- Presenter: Taylor Theleman, Xcel Energy
Assessing EE as a Resource Track

4B: Issues in Cost-Effectiveness Testing
  Moderator: Olivia Patterson, Opinion Dynamics
  How States Value Energy Efficiency as a Resource
  Presenter: Erin Malone, Synapse Energy Economics

EE Cost-Effectiveness
  Presenter: Gregory Ehrendreich, Midwest Energy Efficiency Alliance

New Hampshire’s Experience with the NSPM Resource Value Framework
  Presenter: Melissa Birchard, Conservation Law Foundation (invited)

Resource Curves: Time to Value Efficiency
  Presenter: Carmen Best, Recurve

EE Multiple Benefits Track

4C: Energy Efficiency and the Environment

Alberta Carbon-Centric Energy Efficiency Programming
  Presenter: Karen Maoz, Navigant Consulting

Energy Efficiency and Carbon Reduction Goals
  Presenter: Nick Hromalik, Midwest Energy Efficiency Alliance

Reducing Visibility Impairing Pollutants through Energy Efficiency
  Presenters: Tricia Treece, Arkansas Department of Environmental Quality
             Nancy Seidman, Regulatory Assistance Project

EE as a Distributed Resource Track

4D: Energy Efficiency and Electrification
  Moderator: Maggie Molina, American Council for an Energy-Efficient Economy

Allies in the Climate Fight: The Interplay between Efficiency and Beneficial Electrification
  Presenter: Erika Niedowski, Acadia Center

Energy Efficiency and Electrification: Strategic Partners
  Presenter: Emily Levin, VEIC

Electrification in Minnesota: Perspectives from a Regulator and an Implementer
  Presenters: Anthony Fryer, Minnesota Department of Commerce
             Josh Quinnell, Center for Energy and Environment

Peak Heat and the Capacity Benefits of Energy Efficiency
  Presenter: Daniel Aas, Energy + Environmental Economics, Inc.
EE for Targeted Markets

4E: New Construction Programs
Moderator: Amanda Formica, National Grid

The Sum Is Greater than the Parts: How Advanced Analytics Find Cost Effective Approaches for Residential New Construction through Volume and Efficiency
Presenter: Tim McConkie, Lockheed Martin Energy

Enbridge Gas: Building Energy Efficiency into Affordable Housing
Presenter: Corrie Morton, Enbridge Gas Inc.

The Midwest is Zero Net Energy Ready
Presenter: Benjamin Glendening, Consumers Energy

Future of Commercial and Industrial New Construction Energy Efficiency Programs: Moving Toward a Holistic Approach and Zero Energy Building Design
Presenters: Jillian Corley, Eversource
           Jordan Schellens, Eversource

3:15 pm–3:30 pm Afternoon Break

3:30 pm–5:00 pm Breakout Sessions

EE Programs and Measures

5A: Energy Efficiency in Multifamily Buildings
Moderator: Becky Olson, Center for Energy and Environment

A New Ultra-Flexible, High-Impact Design to Engage Affordable Housing Projects
Presenter: Stephanie Berkland, TRC

Energy Efficiency’s Expanding Role in Affordable Multifamily Housing
Presenter: Stefan Samarripas, American Council for an Energy-Efficient Economy

Serving Multifamily Customers through a Joint Electric/Gas Utility Program
Presenters: Yvonne Pfeifer, Xcel Energy
           Emma Ingebretsen, CenterPoint Energy

Assessing EE as a Resource Track

5B: Partnerships to Leverage Energy Efficiency
Moderator: Bridget French, VEIC

Leveraging Rate Payer Funds with Private Buy-down Financing Programs
Presenter: Josh Patton, Ascentium Capital

Levering “Investment Grade” Energy Savings Predictions to Enable EE as a Resource
Presenter: Andy Frank, Sealed

Time of Sale Energy Disclosure: Minneapolis and the Utility Working together to Achieve Energy Savings through Policy
Presenter: Isaac Smith, Center for Energy and Environment
EE Multiple Benefits Track

5C: Energy Efficiency and Resilience
Moderator: Emma Schoppe, CenterPoint Energy
Quantifying EE’s Value for Reducing Resilience Costs in Critical Facilities
Presenter: John Agan, US Department of Energy
Strategic Electrification and Winter Cold Snaps: A Resource and a Challenge
Presenter: Asa Hopkins, Synapse Energy Economics
CHP: An Energy-Efficient Resiliency Measure that Can be a Local Solution for Meeting Climate Goals
Presenter: Neelharika Naik-Dhungel, US Environmental Protection Agency

EE as a Distributed Resource Track

5D: Energy Efficiency as a Capacity Resource
Moderator: Chris Duffin, Center for Energy and Environment
Rapid Deployment of Energy Efficiency as a Peak Demand Reduction Strategy
Presenters: Quinn Cherf, Energy Trust of Oregon
Angela Long, Pacific Power
New England Forward Capacity Market (FMC) Developments: Encouraging or Discouraging EE?
Presenter: Elizabeth Titus, Northeast Energy Efficiency Partnerships
Hard-to-Reach Customers Tapped to Deliver 18.5 MW of Local Capacity through EE
Presenter: Gwen Snodgrass, Willdan Energy Solutions

EE for Targeted Markets Track

5E: Energy Efficiency and Rural Programs
Moderator: Annie Gilleo, American Council for an Energy-Efficient Economy
Integrated Energy Efficiency and Disaster Recovery Program Approaches
Presenter: Monica Thilges, APTIM
Findings from Michigan’s Agriculture and Rural Communities Energy Roadmap
Presenter: Mary Shoemaker, American Council for an Energy-Efficient Economy
No Customer Left Behind: Engaging Small Businesses through Turn-Key Services
Presenter: Rose Shannon, Franklin Energy