Grid-Interactive Efficient Buildings: Facilitating State-Supported Research Coordination and Analysis, and Development of State-Led Pilots

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Webinar
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Overview

- Context
- Purpose and benefits
- Activities
  - NASEO-NARUC Grid-Interactive Efficient Buildings (GEB) State Working Group
  - Resource development and offerings
- Complementary activities
  - Utility GEB working group
  - NARUC-NASEO Comprehensive Electricity Planning Task Force
- Calendar/Events and Contacts
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Advancing technologies open opportunities:

- More impactful and flexible load management
  - Reduce peak power demand
  - Make buildings more flexible, or even dispatchable, as demand-side resources and virtual energy storage
- Improve variable (both distributed and grid-side) and distributed energy resource integration
- Transactive energy
- Enhance energy efficiency
- Enhance environmental performance.
- Resilience benefits (to both grid and buildings/facilities)
- Resource optimization (building/facility, distribution, grid) and cost savings (to businesses, households, grid)
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- How can we optimize facility interactions with the grid?
- How can states fashion policies, programs, and regulations to advance such optimization through GEB?
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States would benefit from greater exchange to:

- Learn about GEB technologies, applications, and their scale and scope
- Identify private and public sector expertise and resources
- Express state priorities, concerns, interests
- Identify opportunities and impediments
  - Non-technical and technical
- Inform federal, private, and state RD&D decisions
- Recognize temporal and locational value of energy efficiency and other distributed resources
- Clarify electric system (consumer and grid-facing) requirements
- Enhance energy system reliability, resilience, and affordability

Inform state planning, policy, regulations, and programs
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- NASEO-NARUC GEB State Working Group
  - SEOs, PUCs, DOE reps and invited experts
  - Inform states on GEB research, technology, implementation
  - Identify state contexts that foster or hinder GEB
    - Market, economic, policy, regulatory
  - State feedback on priorities, interests, concerns
  - Identify information needs, gaps
  - Inform RD&D priorities, potential pilots

- Engagement/exchange
  - Periodic stakeholder engagement calls, webinars
    - Starting 1st Q 2019
  - Planned Fall 2019 workshop
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- Resource development and offerings
  - Briefing papers planned
    - Oriented toward SEOs and PUCs
    - One focused on residential GEB
    - Non-technical and technical considerations
  - Scoping model GEB road mapping kit
    - Help states to explore GEB in their state contexts
  - Scoping potential state-federal pilots
    - Inform development of pilots to explore and address priority issues
  - Work with states engaged in distribution system planning
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Complementary Utility GEB Working Group

- Managed by the American Council for an Energy-Efficient Economy (ACEEE)
- Peer network of utility energy efficiency, demand response, grid mod staff
  - Identify utility activities and regulatory issues that foster or hinder GEB integration
- Inform RD&D and potential pilot projects and programs
- Utility engagement webinar series
- Opportunities for technical assistance by request from participating utilities
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NARUC-NASEO Task Force on Comprehensive Electricity Planning

- NARUC-NASEO partnership
- States (PUCs+SEOs) forum to better align distribution and resource planning
  - 12-15 states over two years, four workshops
  - Information exchange, webinars, etc.
  - Development of tools, roadmaps, action plans
- DOE, National Lab support
- Stakeholder engagement
- December 13, 2018 webinar [https://naseo.org/committee-fuels](https://naseo.org/committee-fuels)
- State “Letter of Intent” due January 18, 2019
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Tuesday, February 5, 2019, 2:45 p.m. – 4:15 p.m.

Concurrent Meetings

NASEO-NARUC Grid Interactive Efficient Building Task Force: Goals and Engagement (Open to registered NASEO State, Territory, and Affiliate Members)

This working session will discuss the newly formed NASEO-NARUC Grid Interactive Efficient Building Task Force’s goals and options for State and private sector engagement. NASEO and NARUC are working with the U.S. Department of Energy to advance analysis, options, and pilots that address the role of buildings in delivering energy efficiency, demand reduction, and electricity supplies in ways that help to optimize grid performance and reliability.
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Calendar

- February 5, 2019: NASEO Energy Policy Outlook Conference
  - 2:45-4:15pm GEB State Working Group session
- February 11, 2019: NARUC Annual Meeting
  - 2:45pm Energy Resource and the Environment Committee business meeting - GEB State Working Group discussion

State expression of interest due February 21

- Quarterly GEB key stakeholder engagement calls/webinars
  - First TBD by March 31, 2019
- Quarterly GEB state-DOE-industry calls/webinars
  - First TBD by March 31, 2019

- Workshop: Fall 2019
  - likely at NASEO Annual Meeting, Sept. 15-18, Manhattan Beach, CA
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Resources


- 2018 NASEO Annual Meeting (Detroit, MI) https://annualmeeting.naseo.org/agenda

- Grid-Interactive Efficient Buildings: Energy Efficiency & Grid Optimization - David Nemtzow (U.S. DOE)

- What’s Next for Energy Efficiency: Grid Interaction - Chris Baker (The Weidt Group)

- Grid Interactive Efficient Building - Jan Berman (PG&E)

- Smart Neighborhood - James Leverette (Southern Co.)
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Questions/inquiries:
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