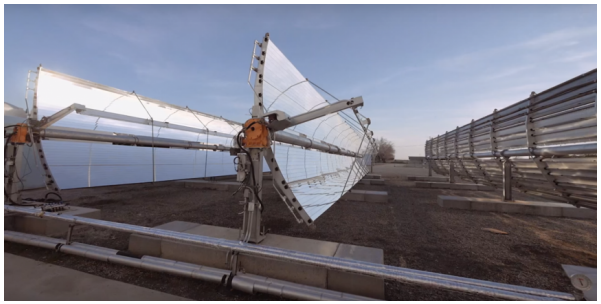
National Energy Efficiency Registry (NEER)
Key Findings and Frameworks



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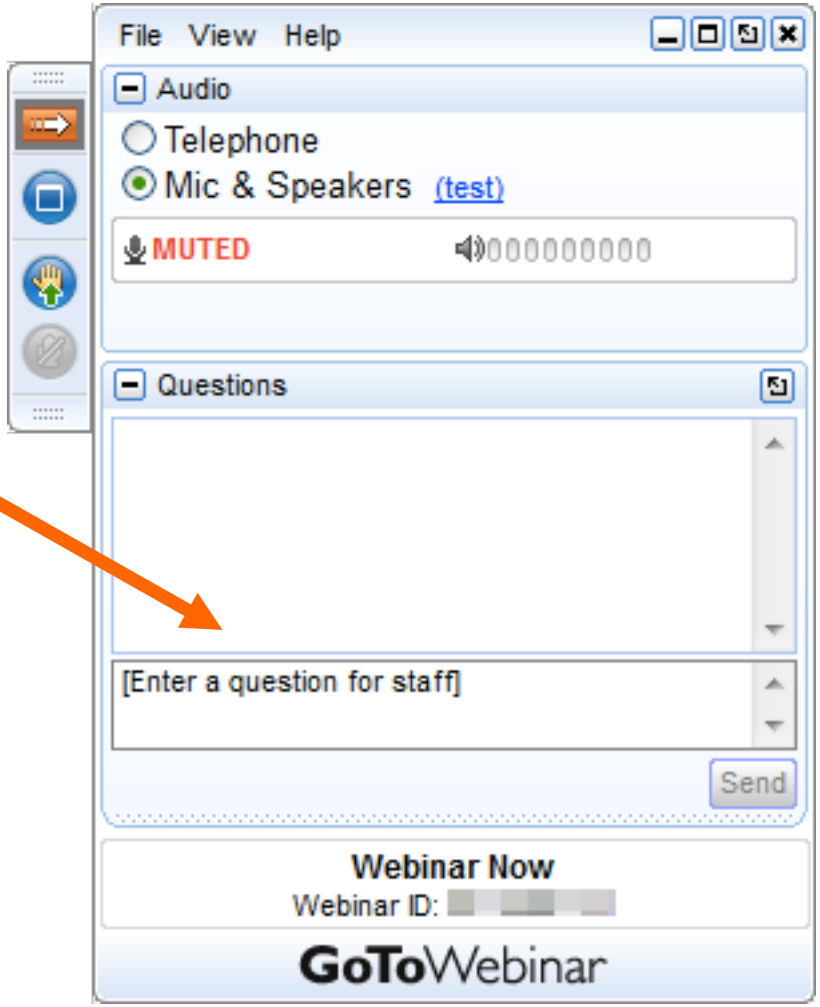
NATIONAL ENERGY EFFICIENCY REGISTRY

Using the Webinar Software

- All participants are muted.
- If you have a question for the presenters or are having difficulty with the webinar software, please submit your question using the GoToWebinar control panel.
- Slides and webinar recording will be available on NASEO's website at http://naseo.org/past-webinars.



Agenda

NEER Background
Molly Cripps, Director, Office of Energy Programs,
Tennessee Department of Environment and Conservation

NEER Principles and Operating Rules Overview
Michelle Zilinskas, Policy Associate,
The Climate Registry

NEER Roadmap: Key Findings and Implications
Rodney Sobin, Senior Program Director,
National Association of State Energy Officials

State Applications and Perspectives
Kaci Radcliffe, Energy Analyst, Oregon Department of Energy
Molly Cripps, Director, Office of Energy Programs,
Tennessee Department of Environment and Conservation

Question and Answer

The Climate Registry

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NATIONAL ENERGY EFFICIENCY REGISTRY

NEER Principles and Operating Rules Overview

Michelle Zilinskas
Policy Associate
The Climate Registry

The Climate Registry

What the Principles and Operating Rules Represent

The Climate Registry

Project Team Achievements

➔ State partners:

TN Department of Environment & Conservation

Minnesota Department of Commerce

Oregon Department of Energy

MI Energy Michigan Agency for Energy Michigan Energy Office

GEFA Energy • Land • Water

pennsylvania Department of Environmental Protection

➔ Additional support from:

The Climate Registry

NASEO National Association of State Energy Officials

E4 The Future

APX Energy. Environment. Market Integrity.

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Stakeholder Contributions

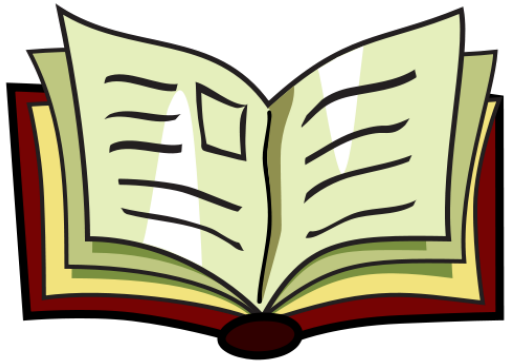
16+

Organizations on Steering/Advisory Committee

147

Multi-stakeholder Working Group Members

2 Month Public Comment Period



617 Comments

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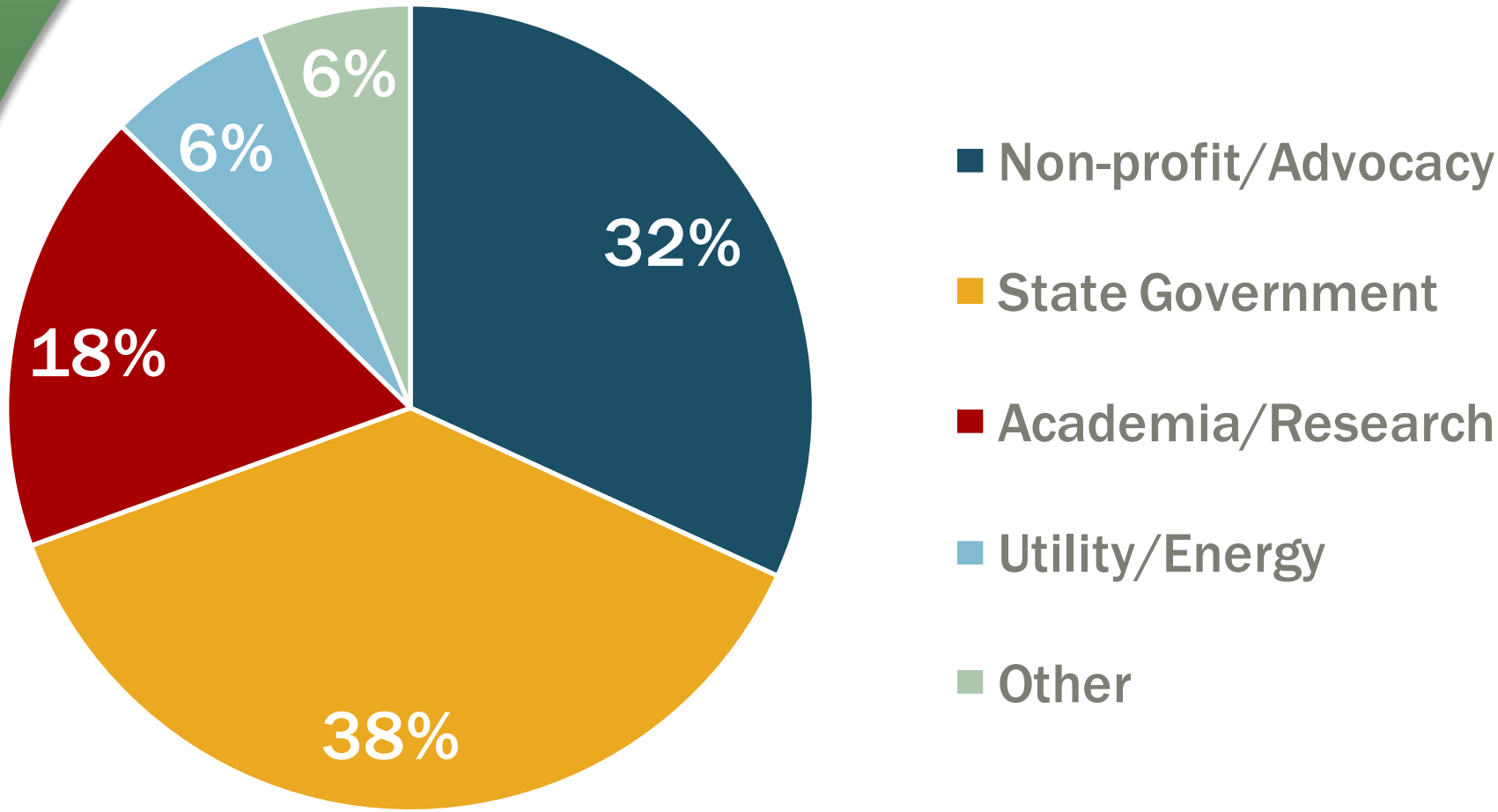
Total Comments by Sector



The Climate Registry

National Energy Efficiency Registry Principles and Operating Rules

July 2017, Version 1.0

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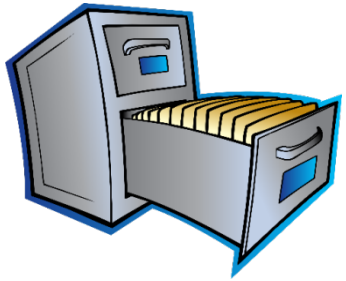
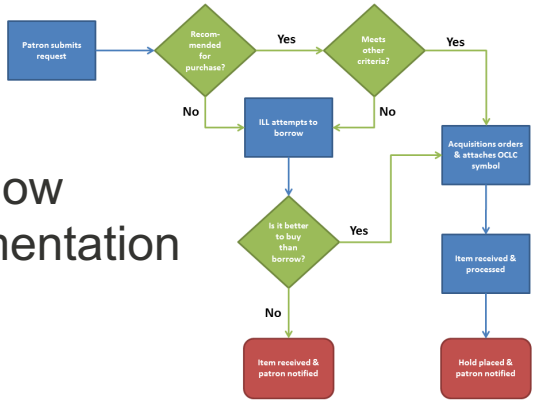
NEER = Tool (Not a Policy)

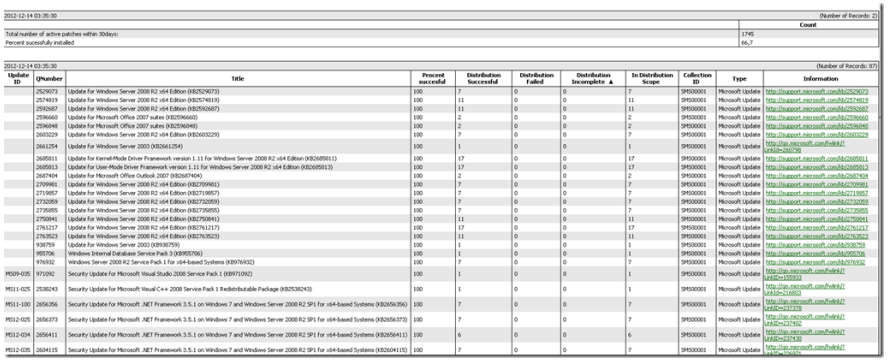
Document management



Transaction accounting

Workflow documentation



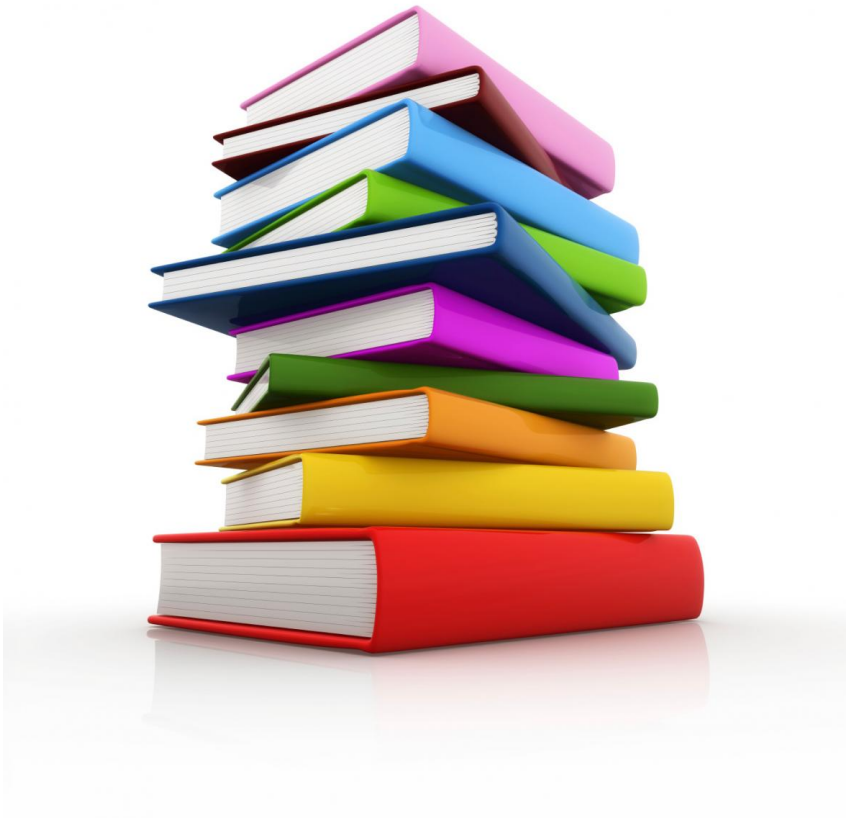


Compliance Reporting

The Climate Registry

Organization of the Principles and Operating Rules

1. Table of Contents
2. Overview
3. Principles
4. Definitions and Abbreviations
5. Accounts
6. Assets
7. Asset Output, Dynamic Data Reporting, Verification and Certification
8. Instrument Transactions
9. Reports
10. Data Security
11. Dispute Resolution
12. Appendixes



Outline of the Rules

1. Table of Contents
2. Overview
3. Principles
4. Definitions and Abbreviations
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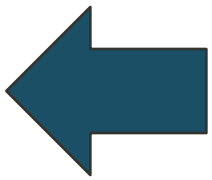

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What's Next?

- ➔ Outreach & engagement
- ➔ Pilots/proof of concept
- ➔ Software development

Connect with us to share your ideas

The Climate Registry

Resources

- www.NEERegistry.org
- To be added to the NEER mailing list contact Ryan Cassutt, rcassutt@theclimateregistry.org
- All other questions, and to find out more about next steps for the NEER, contact Michelle Zilinskas, mzilinskas@theclimateregistry.org

The Climate Registry

QUESTIONS?

The Climate Registry

Thank you

Acknowledgement: This material is based upon work supported by the Department of Energy, Office of Energy Efficiency and Renewable Energy (EERE), under Award Number DE-EE0007219, CFDA No. 81.119.

NEER Roadmap: Key Findings and Implications

NEER
NATIONAL ENERGY EFFICIENCY REGISTRY

NASEO
National Association of State Energy Officials

Rodney Sobin
Senior Program Director
National Association of State Energy Officials

NEER Webinar
November 9, 2017

NEER Roadmap: Take home points

- Energy efficiency (EE) is a large resource and offers much larger opportunity
- Some EE is validated, quantified, and tracked, but most is not
  - Most utility EE programs have established quantification, tracking
    - NEER could supplement and broaden such programs
  - Most EE occurs *outside* of utility programs and is not well quantified
    - Larger NEER opportunity here—state, local, corporate; regulatory and voluntary
- Improved EE validation, quantification, and tracking is needed to:
  - Better recognize and realize EE benefits ($, reliability, environmental)
  - Incorporate EE into energy and environmental planning
  - Enhance energy policy and program effectiveness
- NEER offers a tool to help fill this gap

NEER Roadmap: Purpose and Overview

- Roadmap identifies potential applications and paths forward where NEER can support state, local, and regional energy objectives
- Common front section
  - NEER overview and purpose
  - Major potential applications
  - General guidance on criteria and QA/QC development

- State/region-specific sections – GA, MI, MN, PA, OR/region, TN
  - Potential applications—opportunities and barriers
  - Possible paths forward in each state's own context
- Help guide next steps
  - Roadmap not an end but is a step forward

NEER Roadmap: Process

- Roadmap Outline based on earlier project activities and additional research provided to states
  - Nucleus of common front section and notes on state-specific aspects
- State feedback on Roadmap Outline
- In-state discussions and consultations--
  - Events: In-state NEER webinars, Oregon workshop (Aug. 15), Pennsylvania workshop (Aug. 25)
  - Informal discussions
- State-specific sections drafted and reviewed by partner states.
- NEER workshop at NASEO Annual Meeting
- Roadmap finalized in October
- Today's webinar

NEER Applications
(can include but are not limited to)--

- Utility energy efficiency (electricity and natural gas)
- Lead-by-Example: state, local, public facilities
- State and local policies
- Energy efficiency finance programs
- Voluntary program tracking
- Air quality and climate

NEER Roadmap: Utility Programs

- Existing energy efficiency resource standards (EERS) mostly have established quantification, tracking, and attribution
- NEER platform for new or revamped programs?
- NEER as adjunct or complement--
  - Commercial/industrial self-direct EE
- Potential platform to allow "EERS 2.0" --
  - Energy savings credit trading
  - 3rd party EE participation (e.g., utility buy EE from energy service co.)
- Utilities, RTOs, others interested in EE occurring beyond utility programs – help plan demand, resources
- PUC/PSC/state could designate NEER as main or adjunct platform, establish QA/QC criteria and trading (if any) parameters

NEER Roadmap: State and Local

- State and local policies and programs—
  - Public sector lead-by-example
    - New construction standards
    - Existing building targets
    - Energy savings performance contracts (ESPCs)

  - Requirements on non-public buildings
    - Benchmarking and disclosure, retrocommissioning, performance standards
    - Building energy codes, “stretch” codes
  - Public financed, incentivized (weatherization, LIHTC, PACE…)
  - State, locality, or program could designate NEER as tracking platform; program establish QA/QC criteria (eligibility, M&V…)
    - Link to eProjectBuilder--export from ePB to NEER?

NEER Roadmap: Voluntary

- Voluntary initiatives and programs—
  - Voluntary challenges: Better Buildings, 2030 Districts, etc.
    - NEER as platform
      - Link with Portfolio Manager?
  - Corporate energy and sustainability initiatives
    - Companies' own facilities
    - Encourage or require supply chain EE
    - Corporate social responsibility—e.g., support EE in low-income, disadvantaged communities
    - Designate NEER as tracking platform, establish QA/QC
    - Energy management systems, e.g., ISO 50001, "50001 Ready"

NEER Roadmap: Air Quality and Climate

- EE reduces electricity and onsite fuel demand, thus emissions
- Modest use of EE in air quality planning so far
- NEER can improve EE credibility, quantification for translation to avoided emissions
  - Range of consideration: broad projections <-> formal "credit"
  - State Implementation Plans:
    - National Ambient Air Quality Standards (NAAQS)
    - Regional Haze Program
  - NEER could validate EE for "nonattainment offsets"
  - Eastern third of U.S.: NOx allowance trading
    - NEER could support NOx "set-aside" allowances for EE/RE
  - State, local greenhouse gas targets and plans—track EE contributions

NEER Roadmap: Discussion

- Partner state perspectives
  - Key opportunities and challenges?
  - How can NEER fit into each state's broader policy and market landscape?
  - Why is tracking EE important and what benefits can it produce for more robust energy, electricity, and environmental plans and strategies?
- Next steps?

Thank You

Rodney Sobin

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States' Perspectives

Kaci Radcliffe,
Energy Analyst,
Oregon Department of Energy

Molly Cripps,
Director, Office of Energy Programs,
Tennessee Department of Environment and Conservation

Key Resources

National Energy Efficiency Registry Principles and Operating Rules

July 2017, Version 1.0

The NEER Principles and Operating Rules provide the foundation for the NEER web-based platform and outline a credible, broadly supported reporting and verification standard that could underpin a voluntary energy efficiency market.

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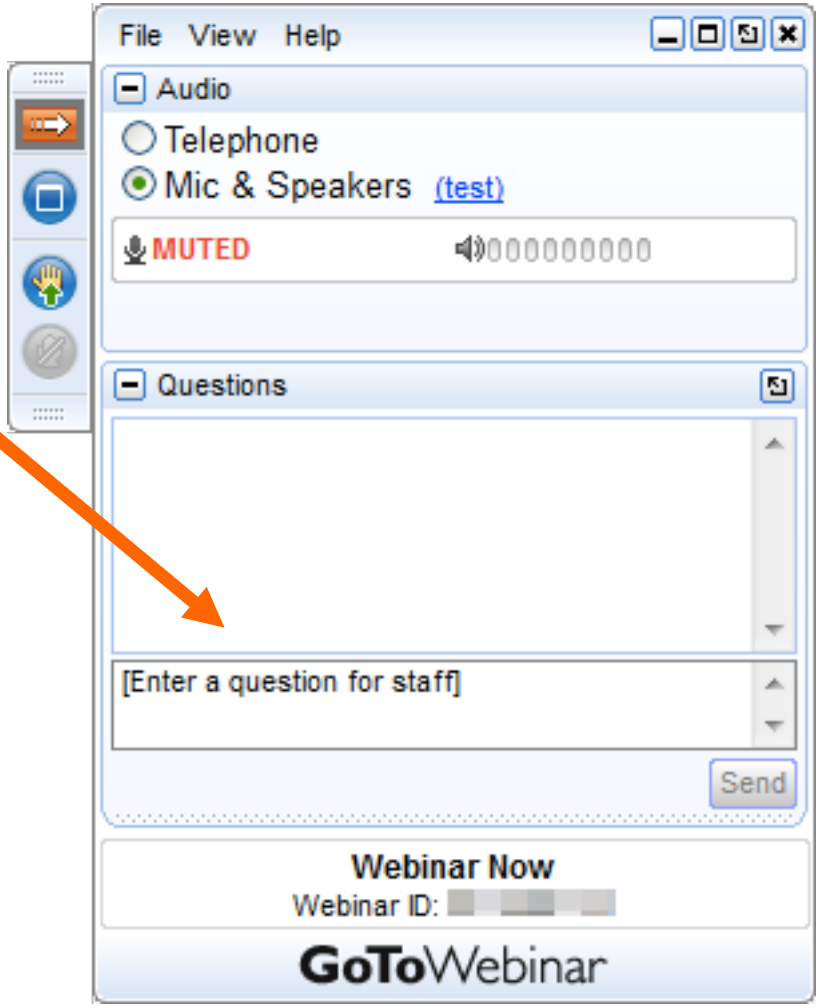
NATIONAL ENERGY EFFICIENCY REGISTRY (NEER) ROADMAP

The NEER Roadmap and series of six state-specific roadmaps (for Tennessee, Oregon, Michigan, Minnesota, Georgia, and Pennsylvania) identify potential opportunities for NEER to support state and regional energy efficiency goals.

Available at www.neeregistry.org and www.naseo.org/publications.

Questions?

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