Overview of the State and Local Energy Efficiency Action Network

Johanna Zetterberg
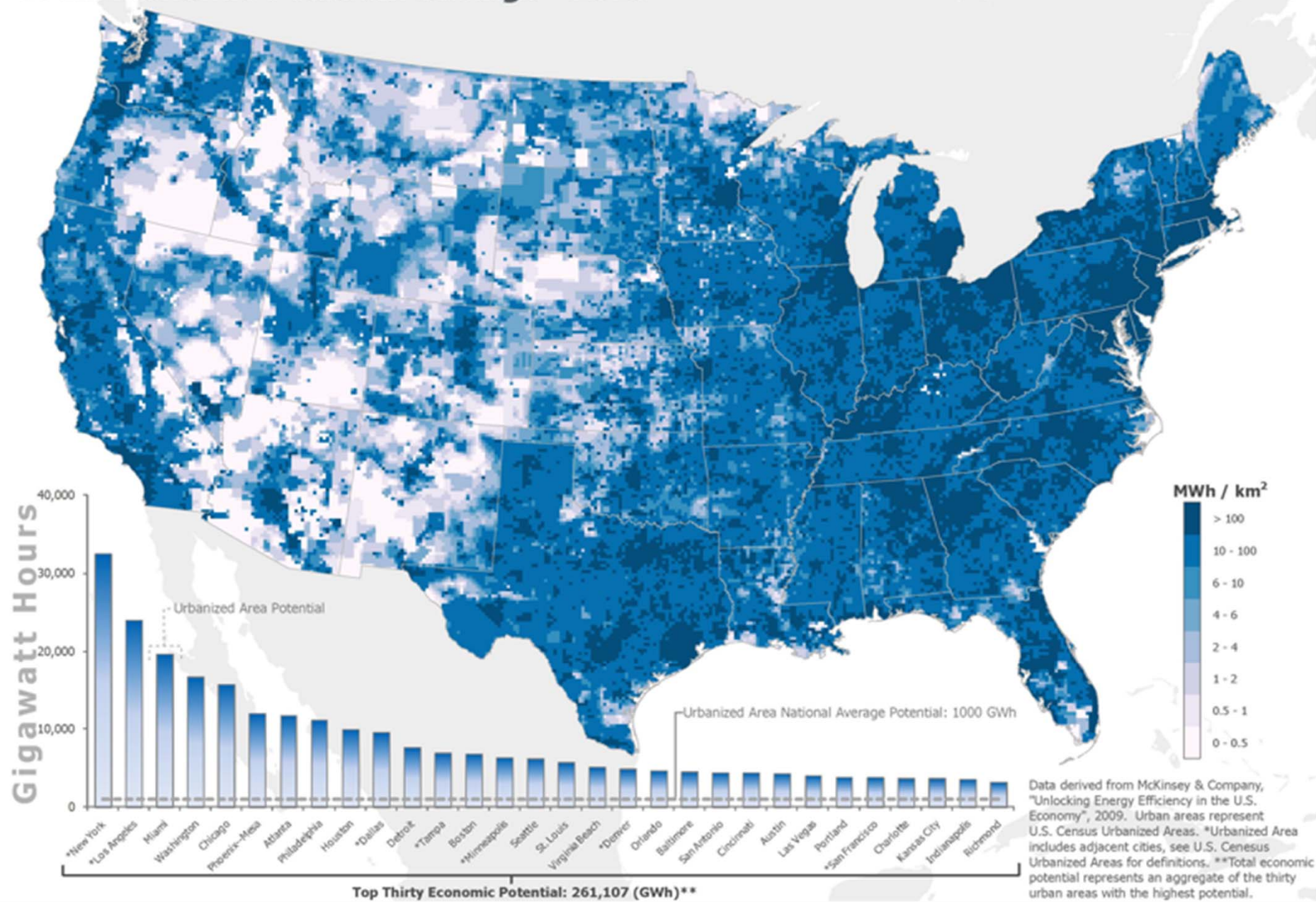
Coordinator, SEE Action Network

US Department of Energy

Electricity Energy Efficiency
Total Economic Potential Savings - 2020

MWh / km²

Range
> 100
10 - 100
6 - 10
4 - 6
2 - 4
1 - 2
0.5 - 1
0 - 0.5

Gigawatt Hours

40,000

30,000

20,000

10,000

Urbanized Area Potential

Urbanized Area National Average Potential: 1000 GWh

Cities (left to right): *New York, *Los Angeles, Miami, Washington, Chicago, Phoenix-Mesa, Atlanta, Philadelphia, Houston, *Dallas, Detroit, *Tampa, Boston, *Minneapolis, Seattle, St. Louis, Virginia Beach, *Denver, Orlando, Baltimore, San Antonio, Cincinnati, Austin, Las Vegas, Portland, *San Francisco, Charlotte, Kansas City, Indianapolis, Richmond

Top Thirty Economic Potential: 261,107 (GWh)**

Data derived from McKinsey & Company, "Unlocking Energy Efficiency in the U.S. Economy", 2009. Urban areas represent U.S. Census Urbanized Areas. *Urbanized Area includes adjacent cities, see U.S. Cenesus Urbanized Areas for definitions. **Total economic potential represents an aggregate of the thirty urban areas with the highest potential.

Achieving the Potential

- EE remains one of the most cost effective[1] ways to address challenges
  - High consumer energy prices
  - Fuel price volatility
  - Transmission and distribution infrastructure expansion costs
  - Localized system reliability
  - Environmental and public health costs of GHGs and air pollution
  - National energy security and independence

- Cost-effective EE can play a significant role in meeting energy requirements and save hundreds of millions of dollars[2]
  - $50B/year[2] cost-effective investment potential; ***not yet achieving full potential***

- Decision makers can benefit from information on current state/provider approaches to overcoming barriers to greater investment in EE

[1]Average cost of efficiency savings ~ 4.6 cents per kWh including participant costs. ACEEE, *Saving Energy Cost-Effectively: A National Review of the Cost of Energy Saved Through Utility-Sector Energy Efficiency Programs*
[2]McKinsey, *Unlocking EE in the US Economy*

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The SEE Action Network

> **Goal: achieve all cost-effective energy efficiency by 2020**

- State- and local-led initiative to take energy efficiency to scale through state and local policies and programs

- Information resources to support state and local decision makers
  - Decision-grade guides on time-tested best practices
  - State/local approaches to new and emerging issues
  - Technical assistance from national experts

- Successor to the National Action Plan for Energy Efficiency

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SEE Action Working Groups

Customer Information & Behavior

EM&V

Residential Retrofit

SEE Action Goal: ALL COST-EFFECTIVE ENERGY EFFICIENCY

Financing Solutions

Existing Commercial Buildings

Building Energy Codes

Ratepayer-Funded Efficiency Policies
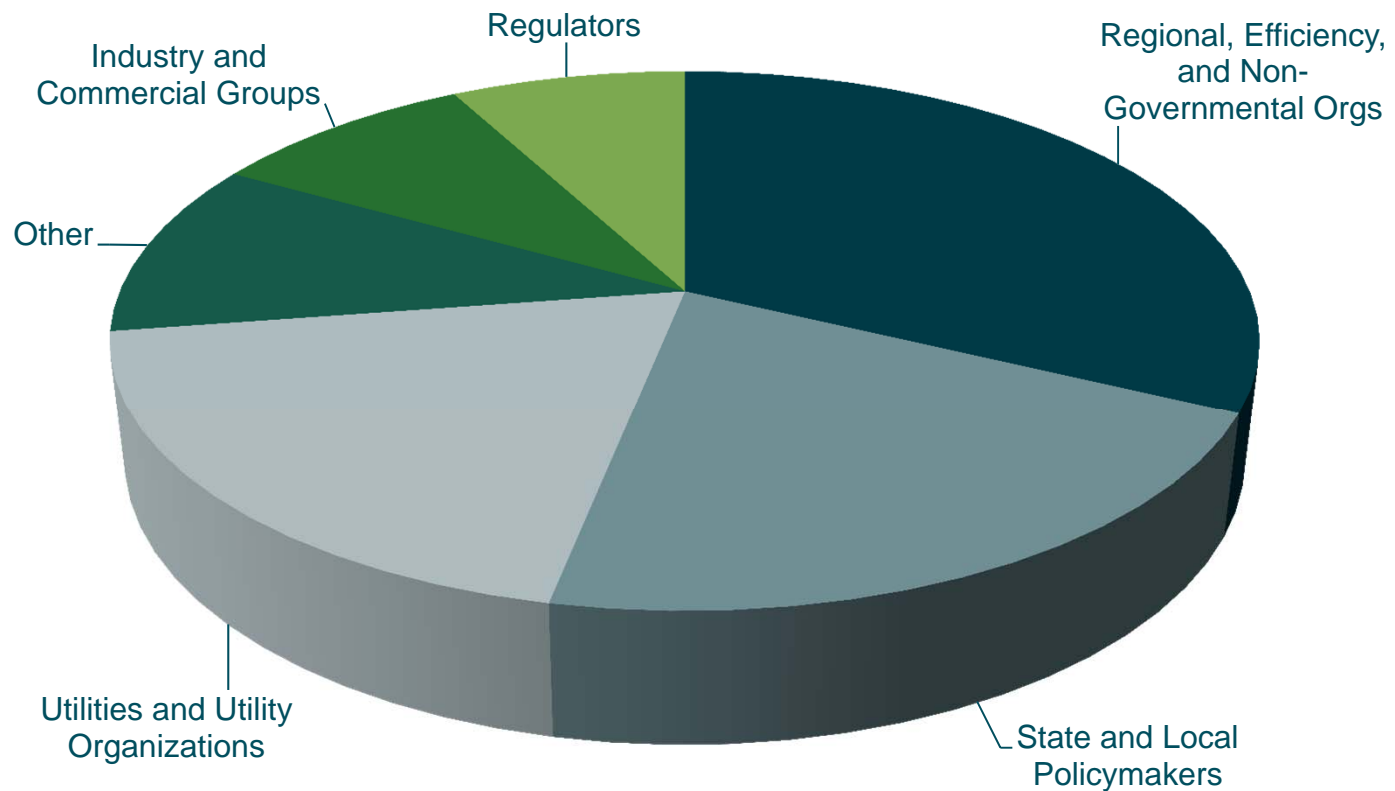
Industrial Energy Efficiency & CHP

Working Group Leadership

Jim Gallagher, NY ISO

Janet Streff, MN SEO

Vaughn Clark, OK SEO

Phyllis Reha, MN PUC

Pat Oshie, WA PUC

Malcolm Woolf, MD SEO

Keith Welks, PA Treasury

Joshua Epel, CO PUC

Todd Currier, WA SEO

Susan Ackerman, OR PUC

Frank Murray, NY SEO

Cheryl Roberto, OH PUC

Bryan Garcia, CT Clean Energy Fund

Jennifer Easler, IA Consumer Advocate

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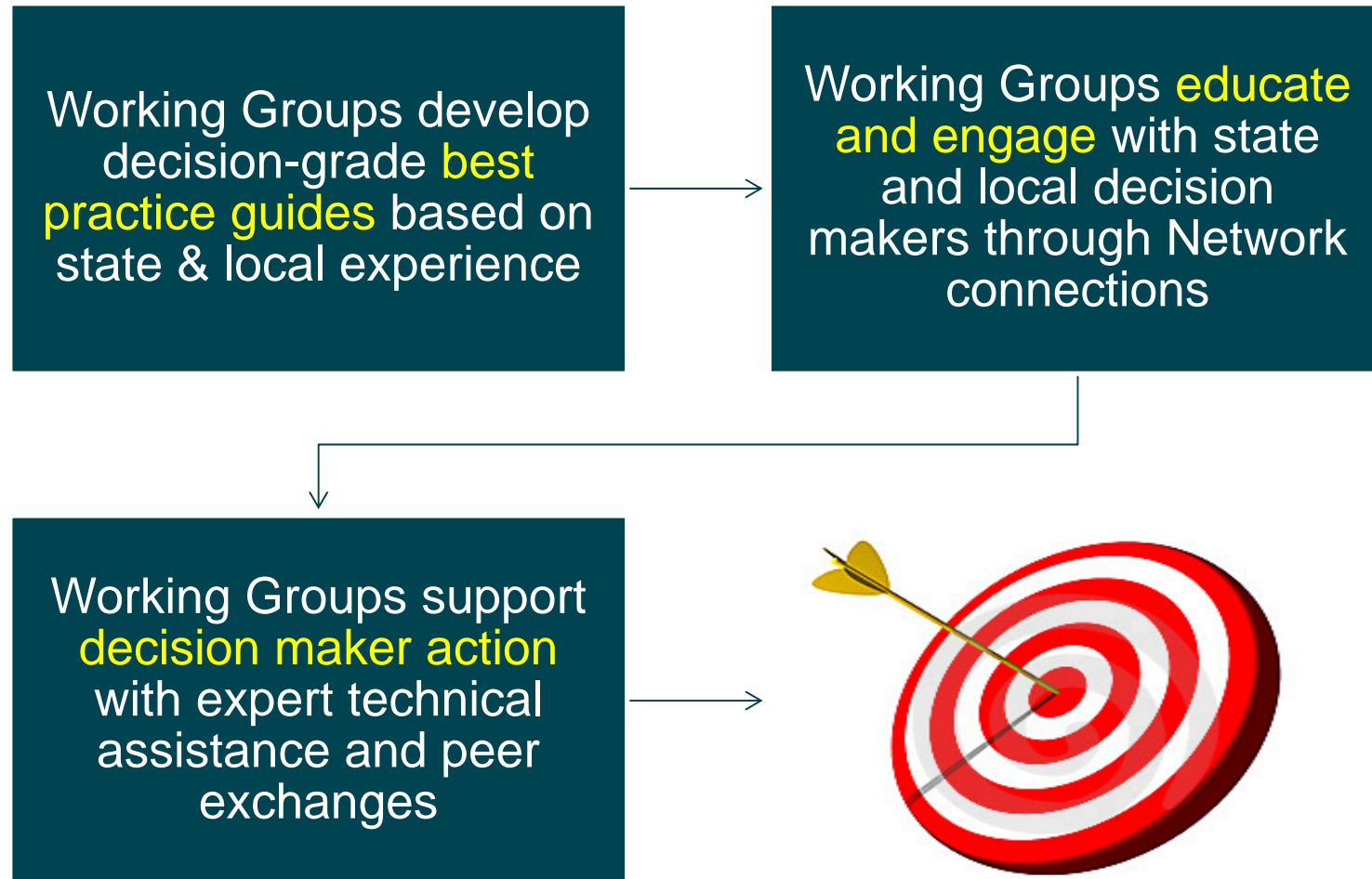STATE ENERGY EFFICIENCY ACTION NETWORK

Who is SEE Action?

Over 200 professionals representing over 130 organizations

Regulators

Industry and Commercial Groups

Other

Utilities and Utility Organizations

Regional, Efficiency, and Non-Governmental Orgs

State and Local Policymakers

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How We Reach Our Goal

Working Groups develop decision-grade best practice guides based on state & local experience

→

Working Groups educate and engage with state and local decision makers through Network connections

Working Groups support decision maker action with expert technical assistance and peer exchanges

→

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Information Resources for
State and Local Decision Makers

EM&V for Behavior-Based Energy Efficiency Programs
Technically valid methods for estimating energy savings from programs that reduce residential energy consumption and consumer costs through behavior change and information feedback.

Setting Energy Savings Targets for Utilities
How electric and natural gas utilities can achieve greater efficiency through numeric energy savings targets.

Regulator's Guide to Data Access and Privacy
Guidance on how states are approaching customer and third-party access to energy use information to drive energy efficiency savings while respecting privacy concerns.

Model Impact Evaluation Guide
Will provide an update of the 2007 National Action Plan for Energy Efficiency document with the same title, and provide guidance for how to effectively evaluate existing programs.

Using Integrated Resource Planning to Encourage Investment in Cost-Effective Energy Efficiency
How state policy can promote cost-effective energy efficiency by requiring or encouraging utility planning processes that allow demand side resources to compete with supply-side resources.

Report on the Energy Efficiency Financing Needs of Financial Institutions and Customers
Will provide a detailed needs analysis based on interviews and data gathered from capital providers, originators, commercial and residential customers, service providers, and others to offer guidance on energy efficiency finance structures.

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Policy and Technical Assistance

Get Involved

- Read and share SEE Action information resources with decision makers who can benefit from them

- Join a SEE Action Working Group or be a technical reviewer on information resources under development

- Contact Johanna for more information

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Thank You

Visit www.seeaction.energy.gov

Contact

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