Better Buildings®
U.S. DEPARTMENT OF ENERGY

Local Government Meet Up

5/09/2016

U.S. DEPARTMENT OF ENERGY

Agenda

2:00 **Welcome & Roll Call -** ***Sarah Zaleski (DOE)***

2:45 **Engaging with Local Governments: Updates & New Resources –** ***Jenah Zweig (DOE)***

3:05 **SEE Action Network and Local Governments -** ***Eric Coffman (Montgomery County), Johanna Zetterberg (DOE)***

3:30 **Break**

3:45 **Roundtable Breakout Discussion**

4:20 **COP 21 Experiences & Next Steps -** ***Brendan Shane (C40), Penni Redford (West Palm Beach)***

4:45 **General Feedback & Wrap-Up**

5:00 **Adjourn**

What's the story with the stickers?

Utility Partnership around Data Access

Outdoor Lighting

Creative Financing

Building Energy Efficiency Policies

Water Savings Projects

Roundtable Breakout Discussions

Coordination across Departments
Cleveland & Arlington County

Moderator: Adam Guzzo

Organizational Strategies for Energy Efficiency Financing
King County & Pittsburgh

Moderator: Joe Indvik

Private Sector Engagement
Los Angeles, Atlanta & Seattle

Moderator: John Jameson

Operationalizing Energy & Sustainability Planning
Philadelphia & Chula Vista

Moderator: Chris Cloutier

Questions / Contact

Sarah Zaleski

202-287-1892

Sarah.Zaleski@EE.Doe.Gov

Informal Happy Hour/Dinner

5:30-8 at Front Page

1333 New Hampshire Avenue

Half mile south of hotel

Walk down Connecticut Ave. to Dupont Circle right around circle to New Hampshire Ave, restaurant on the left.

SEE Action

STATE AND LOCAL ENERGY EFFICIENCY ACTION NETWORK

State and Local Energy Efficiency Action Network

Johanna Zetterberg
SEE Action Network Coordinator
Office of Energy Efficiency and Renewable Energy
US Department of Energy

About SEE Action

Goal: All cost-effective energy efficiency by 2020

- Network of 200+ leaders and professionals, led by state and local policymakers, bringing EE to scale at state & local levels
- Facilitated by DOE and EPA; successor to the National Action Plan for Energy Efficiency

The SEE Action Network is active in the largest areas of challenge and opportunity to advance energy efficiency

Why Energy Efficiency

Help meet state, local, federal & private sector goals

Least cost solution

Energy resource at ½ cost of new supply

Yields policy bang-for-buck

Improves air quality

Reduces all types of power-plant related emissions

Energy Efficiency

Lowers overall energy consumption on transmission & distribution systems

Increases electric system reliability

Increases economic development

Energy cost savings, jobs, competitiveness

SEE Action
STATE AND LOCAL ENERGY EFFICIENCY ACTION NETWORK

www.seeaction.energy.gov

What SEE Action Does

Support on energy efficiency policy and program decision making for:

- Energy office directors, utility regulators, air directors
- Legislators, governors, mayors, county officials
- Consumer advocates, other stakeholders

Based on experience, a library of:

- Best practices
- Considerations for decision making
- Analysis of current approaches

Audiences

NASEO
National Association of State Energy Officials

National Association of Regulatory Utility Commissioners

NACAA
national association of clean air agencies

THE UNITED STATES CONFERENCE OF MAYORS

NATIONAL LEAGUE of CITIES

NATIONAL ASSOCIATION OF STATE UTILITY CONSUMER ADVOCATES NASUC

NATIONAL GOVERNORS ASSOCIATION

APPA American Public Power Association

AGA American Gas Association

NCSL

CEE SM
Consortium for Energy Efficiency

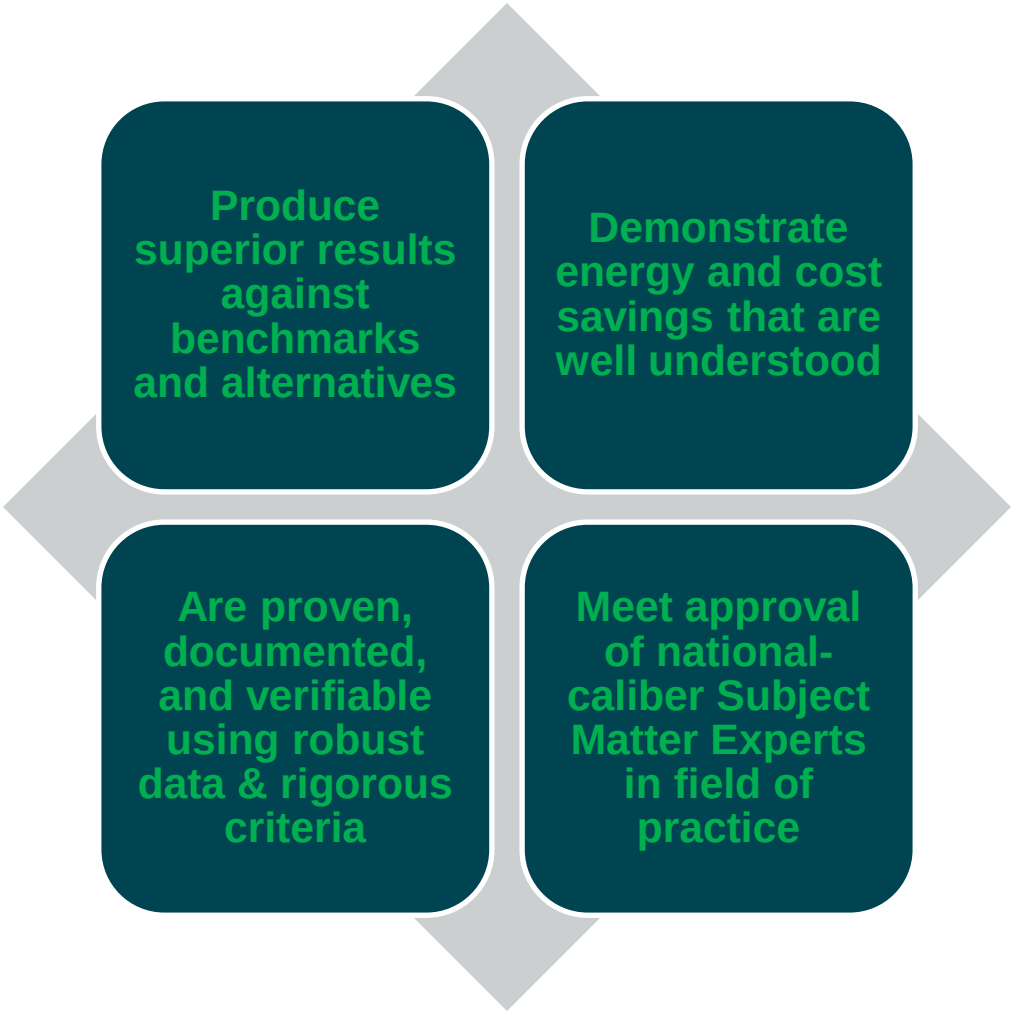
EEI

NRECA
A Touchstone Energy® Cooperative

NACO National Association of Counties
The Voice of America's Counties

SEE Action
STATE AND LOCAL ENERGY EFFICIENCY ACTION NETWORK

SEE Action Guidance Documents



A Unique and Effective Effort

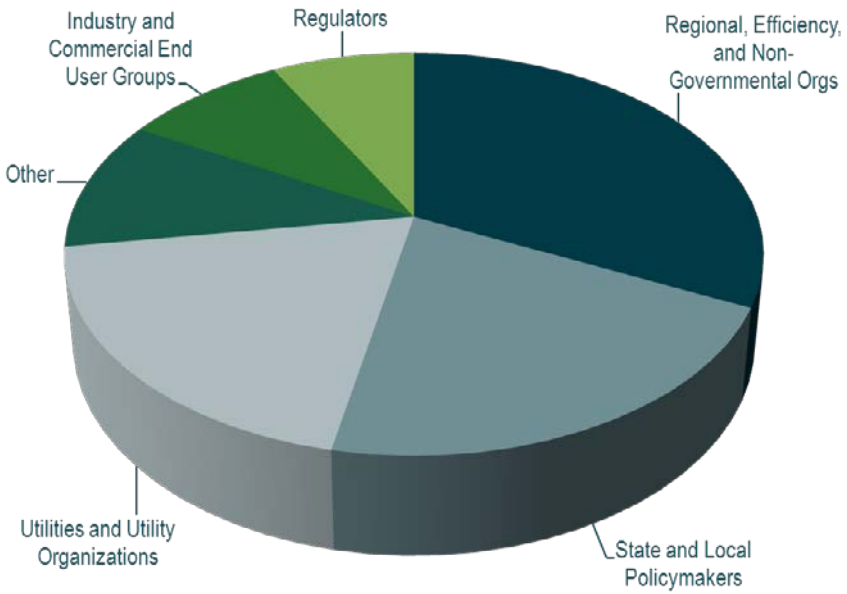
The great thing about SEE Action is that they are ***leveraging the expertise of a diverse group of stakeholders to develop valuable resources*** *that can help any stakeholder gain a better understanding of these issues and barriers, as well as potential solutions.*

Often there are no quick fixes or absolute best practices, but the SEE Action materials and events can help you gain a better understanding of key considerations very quickly. ***If you are actively engaged in energy efficiency policy, you should definitely have SEE Action on your radar.***

Anne-Marie Peracchio
Director, Conservation and Affordability
New Jersey Natural Gas

Network Membership and Structure

Over 200 professionals representing over 130 organizations



Executive Group

- Provides visionary leadership, strategic direction, and drive to meet goals

Working Group Co-Chairs

- Oversee development and dissemination of information resources for state/local leaders

Working Group Members

- Provide technical expertise to ensure quality; help shape Working Group goals & activities

SEE Action Leadership: Executive Group

Al Skodowski Transwestern
Clay Nesler Johnson Controls
Greg White NARUC
David Jacot, Los Angeles Dept of Water & Power
David Terry NASEO
Debra DeHaney-Howard USCM
Dian Grueneich Stanford Precourt Center
Don Gilligan NAESCO
Ed Wisniewski CEE
Gene Rodrigues ICF International
Glen Andersen NCSL
Greg Bergtold Dow Chemical Company
Jennifer Easler IA Office of Consumer Advocate
Kateri Callahan Alliance to Save Energy
Derek Murrow Natural Resources Defense Council

Larry Downes NJ Resources
Lisa Jacobson Bus. Council for Sustainable Energy
Adam Cooper IEE – Innovation, Electricity, Efficiency
Malcolm Woolf Advanced Energy Economy
Mary Ann Ralls NRECA
Nancy Seidman, MA Dept of Environmental Protection
Ashley Duckman American Gas Association
Rick Tempchin Edison Electric Institute
Sandra Byrd Arkansas Electric Cooperative Corp.
Steve Bicker Tacoma Power
Steve Nadel ACEEE
Sue Gander NGA Center for Best Practices
Alex Hofmann American Public Power Association
Garrett Fitzgerald, Urban Sustain. Directors Network
David Springe, NASUCA
Susan Stratton, Northwest Energy Efficiency Partnerships

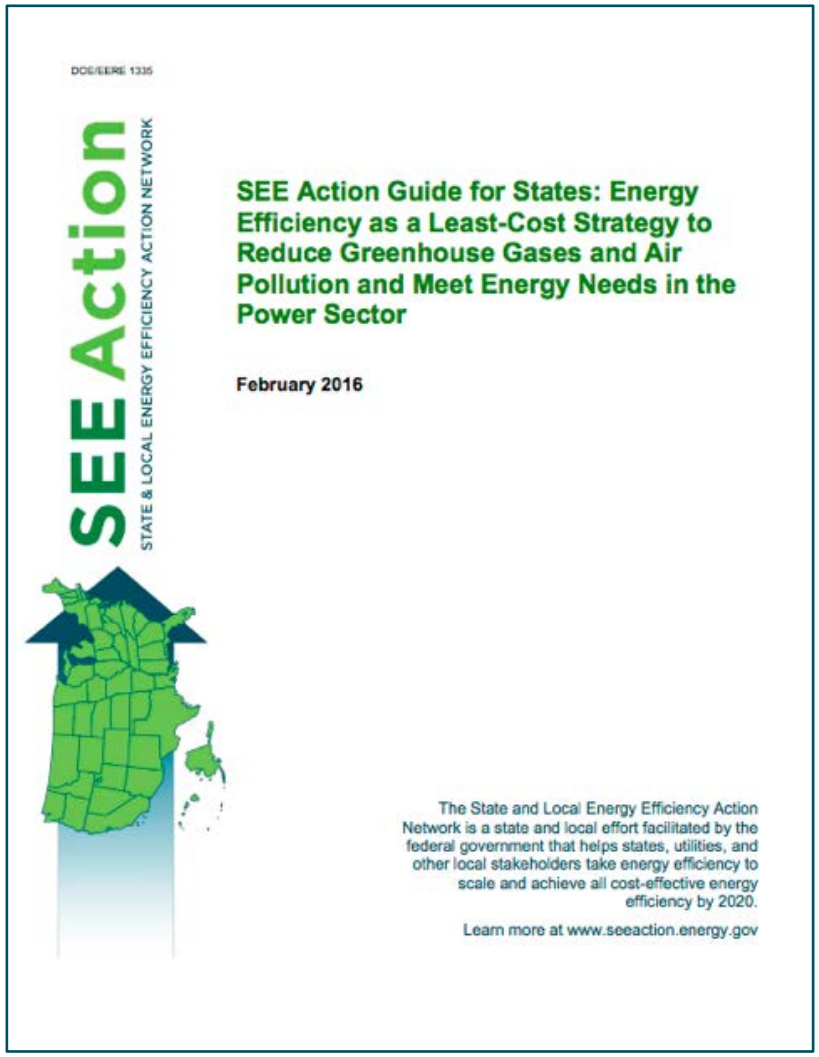
SEE Action Leadership: Working Groups

Working Group	Co-Chairs
Existing Commercial Buildings	**Eric Coffman**, Dept. of Environmental Protection, Montgomery County MD **Carolyn Sarno,** Northeast Energy Efficiency Partnerships
Industrial Energy Efficiency and CHP	**Todd Currier**, Washington State University Extension Energy Program **Chad Smith,** Ohio Air Quality Development Authority
Evaluation, Measurement & Verification	**Lauren Gage**, Bonneville Power Administration **Tom Eckman**, Northwest Power and Conservation Council
Financing Solutions	**Bryan Garcia**, Connecticut Green Bank **Bruce Schlein**, Citi
Customer Information and Behavior	***vacant*** **Jessica Burdette,** Minnesota Dept of Commerce, Div of Energy Resources
Residential Retrofit	***vacant*** **Frank Murray**, formerly NYSERDA

Publications Sample

- **Benchmarking and Disclosure: State and Local Policy Design Guide and Sample Policy Language**
- **Energy Audits and Retro-Commissioning: State and Local Policy Design Guide and Sample Policy Language**
- **Energy Benchmarking, Rating, and Disclosure for Local Governments**
- **High-Performance Leasing for State and Local Governments**
- **Retro-Commissioning for State and Local Governments**
- **Strategic Energy Management for State and Local Governments**

“Pathways” Paper



- About EE
  - Addresses multiple pollutants (including $C0_2$) for state-specific reasons
  - Is an established energy resource
  - Saves money and is cost-effective
- Approaches to documenting energy savings and emission reductions
- Practical Considerations
  - Intergovernmental coordination
  - Workforce development
- Pathways – for each pathway:
  - Definition/description
  - Policies foundation for success
  - Brief case studies
  - Methods for estimating and determining energy savings
  - Expected range of energy savings and emissions reductions
- EE for low income communities

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Energy Efficiency Pathways

Ratepayer-Funded Programs

Industrial Efficiency

Combined Heat & Power

Energy Savings Performance Contracting

Building Energy Codes

City-Led Efficiency

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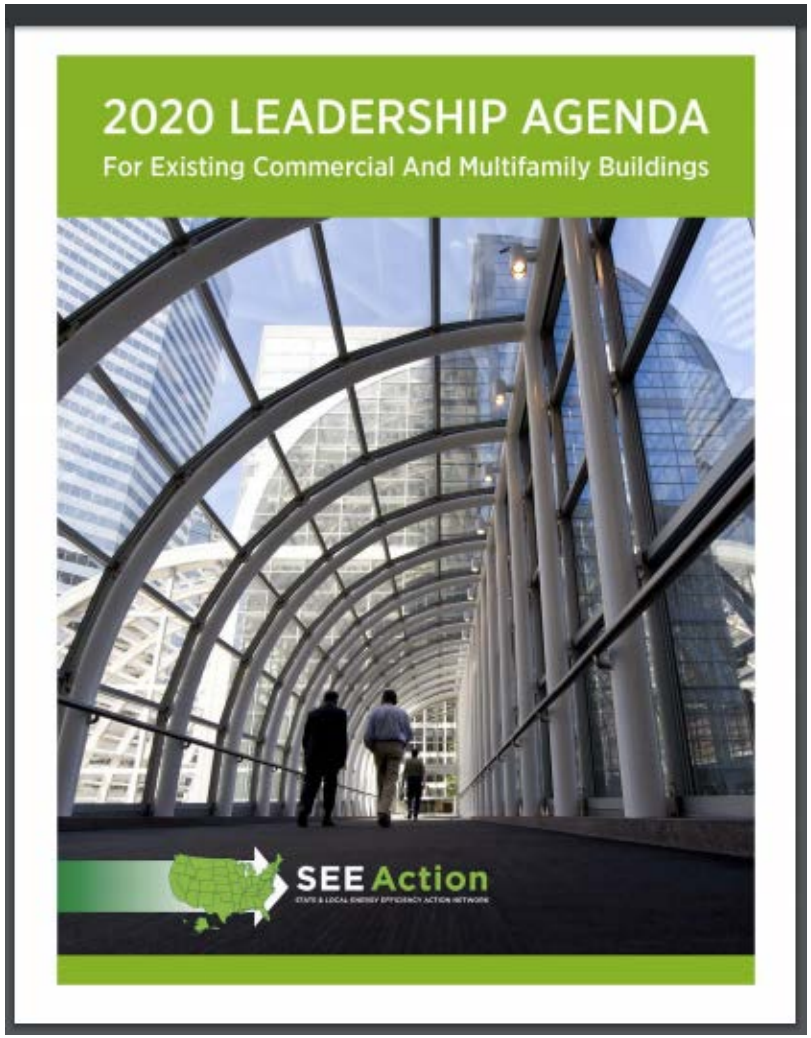
www.seeaction.energy.gov

Considering Pathways

New! Commercial Building Leadership Agenda



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www.seeaction.energy.gov

Thank You

Visit www.seeaction.energy.gov

Contact

Johanna Zetterberg

Coordinator, SEE Action Network

U.S. Department of Energy

202-288-7414

johanna.zetterberg@ee.doe.gov

Engaging with Local Governments: Updates & New Resources

Weatherization & Intergovernmental Programs Office

U.S. DEPARTMENT OF ENERGY | Energy Efficiency & Renewable Energy

Jenah Zweig
Supervisor of Policy & Technical Assistance

Why Cities?

Cities **consume** approximately **70%** of **global energy**

Cities are projected **to house** approximately

60%

of the **global population** by 2030

Source: Seto K.C., S. Dhakal, A. Bigio, H. Blanco, G. C. Delgado, D. Dewar, L. Huang, A. Inaba, A. Kansal, S. Lwasa, J.E. McMahon, D.B. Müller, J. Murakami, H. Nagendra, and A. Ramaswami, 2014: Human Settlements, Infrastructure and Spatial Planning. In: Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change

EERE Vision, Mission, and Principles

Vision

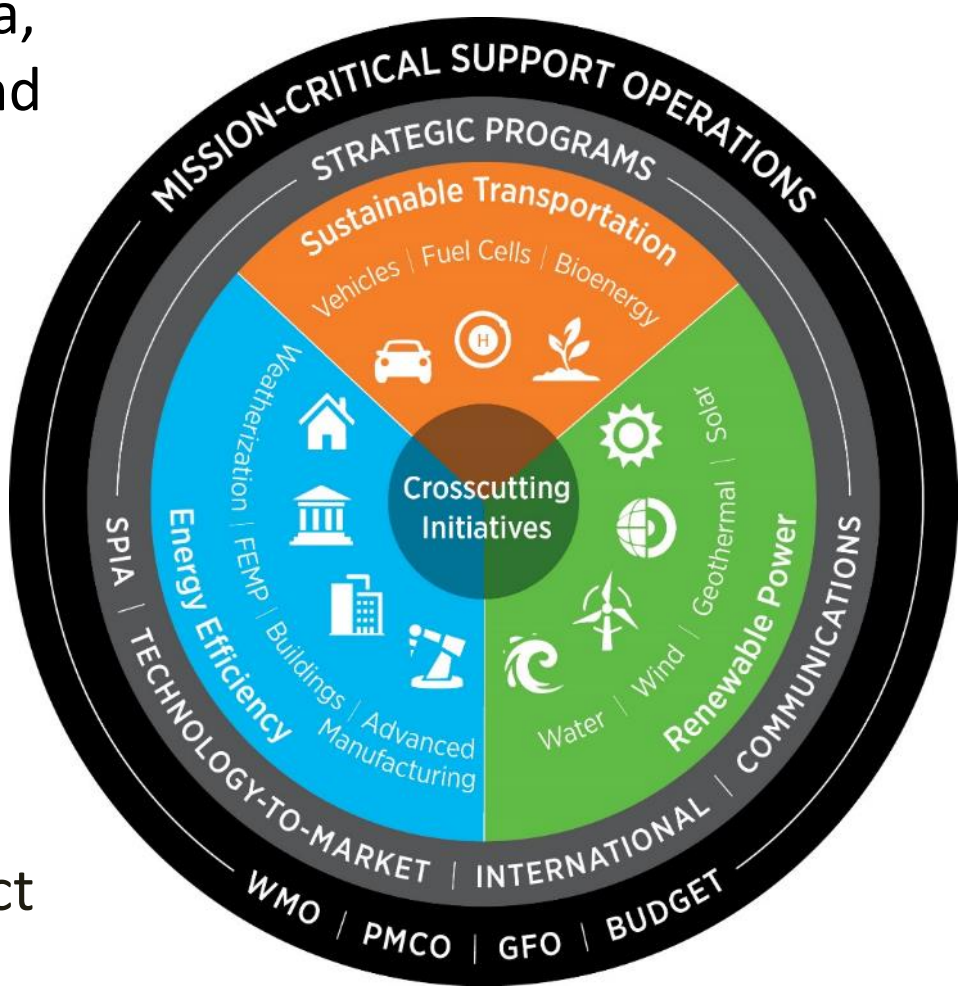
A strong and prosperous America, powered by clean, affordable, and secure energy

Mission

To create and sustain American leadership in the transition to a global clean energy economy

Organizational Principles

- Economic Prosperity
- Affordability
- Reduced Environmental Impact
- Energy Security
- Consumer Choice



Weatherization & Intergovernmental Programs (WIP) Office

WIP activities are focused in three primary areas:

- **State Energy Program (SEP):** State-led energy projects serve as an important foundation for reducing energy use and costs, developing environmentally conscious state economies, and increasing renewable energy generation.

- **Weatherization Assistance Program (WAP):** State/local agencies carry out residential energy retrofits in low–income residences that reduce energy consumption while concurrently reducing energy costs for these families.

- **Policy & Technical Assistance (P&TA) Team:** Assists in developing tools and solutions to barriers facing state and local government expansion of energy efficiency policies and programs and replicating successful efforts demonstrated by public sector leaders.

WIP Budget Summary

Breakdown	FY 2015 Enacted	FY 2016 Enacted	FY 2017 Request
Weatherization Assistance Program Grants (formula and competitive grants)	$190M	$212M	$225M
Training and Technical Assistance	$3M	$3M	$5M
Total, Weatherization Assistance Program	**$193M**	**$215M**	**$230M**
State Energy Program	**$50M**	**$50M**	**$70M**
Cities, Counties & Communities Energy Program	**-**	**-**	**$26M**
Total, Weatherization and Intergovernmental	**$243M**	**$265M**	**$326M**

Better Buildings®

U.S. DEPARTMENT OF ENERGY

Developing Innovative, Replicable Solutions with Market Leaders

- Better Buildings Challenge
- Better Buildings Alliance
- Better Buildings, Better Plants
- Better Buildings Accelerators
- Better Buildings Residential
- Superior Energy Performance

Developing a Skilled Clean Energy Workforce

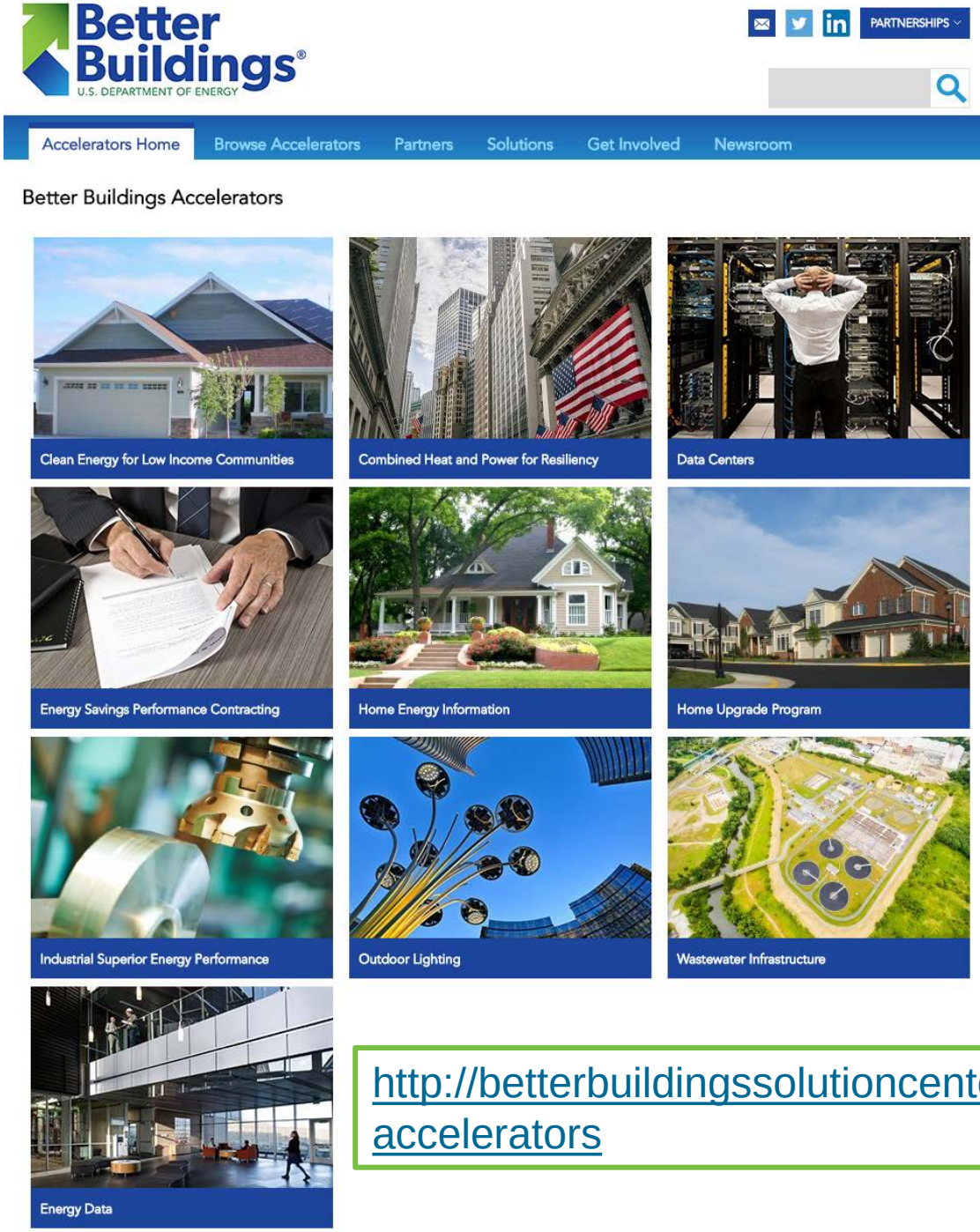
- Better Buildings Workforce Guidelines

Making Energy Efficiency Investment Easier

- Building Performance Database
- Building Energy Data Exchange Specification
- New Financing Solutions
- Building Energy Asset Scoring Tool
- Home Energy Score
- Appraisal Foundation Memorandum of Understanding

Leading by Example in the Federal Government

- New Executive Order
- President's Performance Contracting Challenge
- DOE Leadership



http://betterbuildingssolutioncenter.energy.gov/accelerators

Energy Data Accelerator Data Toolkit

Better Buildings® U.S. DEPARTMENT OF ENERGY

http://betterbuildingssolutioncenter.energy.gov/toolkits/energy-data-access-blueprint-action

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Home » Energy Data Access: Blueprint for Action

Share

SECTOR:
Commercial, Local Government, State Government, Utility

BARRIER:
Getting access to data and information

TOOL TYPE:
Toolkit

Toolkit: Energy Data Access: Blueprint for Action

Across the nation, building owners are measuring and tracking the energy performance of their buildings more than ever before. Known as energy benchmarking, this process helps building owners manage energy consumption and reduce wasted energy. Yet, many owners are prevented from benchmarking and making energy efficiency improvements because they cannot access simple energy information for tenant-occupied spaces within their buildings. Building owners can't manage what they can't measure.

MORE

TOOLS

Better Buildings Energy Data Accelerator Key Accomplishments and Results

As a result of best practices developed by the EDA, 18 utilities serving more than 2.6 million commercial customers nationwide will provide whole-building

Example of Accelerator Technical Assistance Tools

Better Buildings®
U.S. DEPARTMENT OF ENERGY

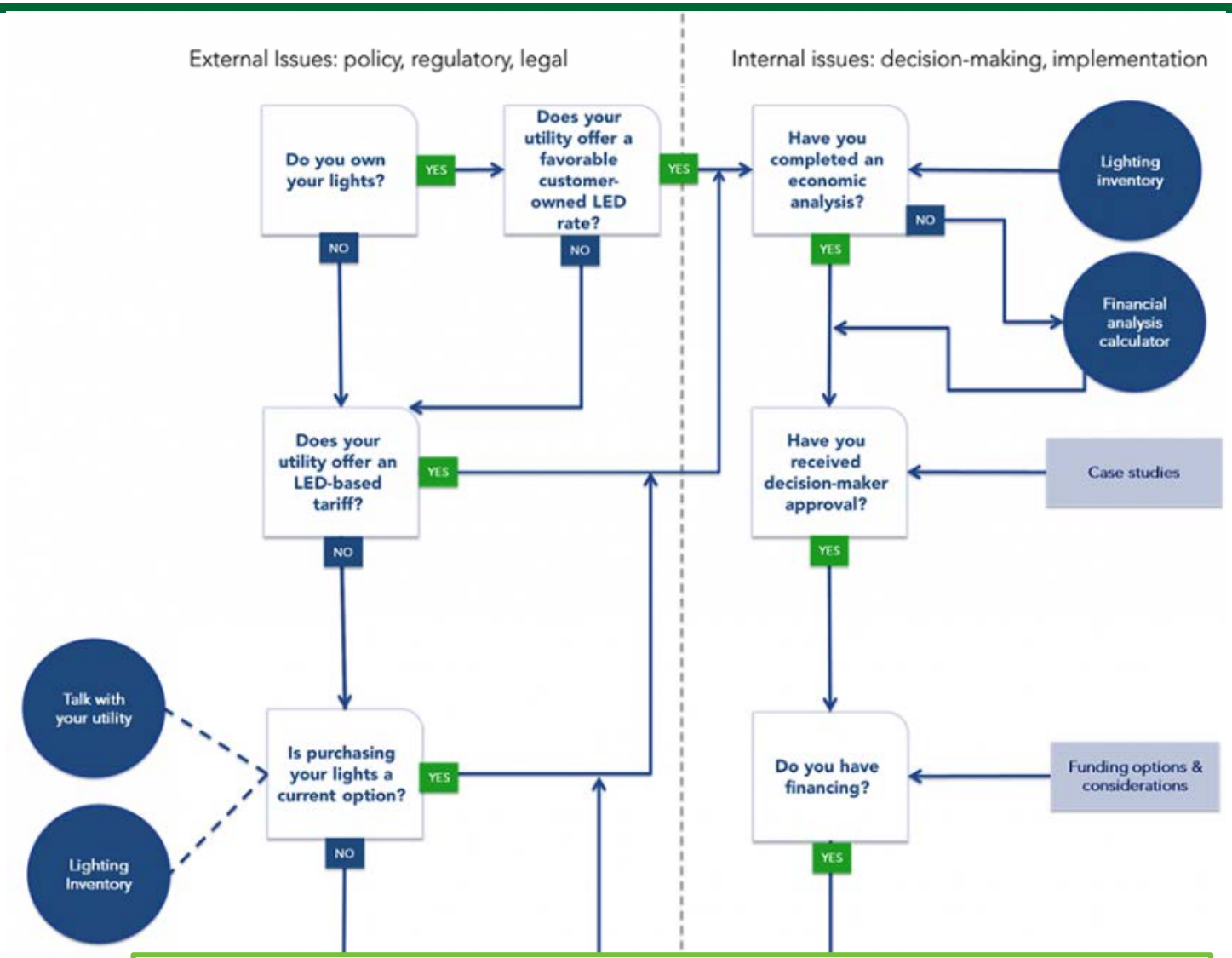
Energy Data Accelerator

Best Practices for Providing Whole-Building Energy Data: A Guide for Utilities

JANUARY 2016

U.S. DEPARTMENT OF ENERGY

Outdoor Lighting Accelerator: Decision Tree Tool



http://betterbuildingssolutioncenter.energy.gov/accelerators/outdoor-lighting

Outdoor Lighting Report

Better Buildings®
U.S. DEPARTMENT OF ENERGY

Outdoor Lighting Challenges and Solution Pathways

MARCH 2016

U.S. DEPARTMENT OF ENERGY

New Accelerators

Clean Energy for Low Income Communities

Combined Heat and Power for Resiliency

Wastewater Infrastructure

- **Clean Energy for Low Income Communities:** Develop plans to identify funding that will lead to the implementation of expanded installation of energy efficiency and distributed renewables in low income communities.
- **Combined Heat and Power for Resiliency:** Develop plans for communities to capitalize on CHP's strengths as a reliable, high efficiency, lower emissions electricity and heating/cooling source for critical infrastructure.
- **Wastewater Infrastructure:** State, regional, and local agencies will work to improve the energy efficiency of water resource recovery facilities by at least 30 percent on their path to more sustainable infrastructure of the future.

Additional DOE Opportunities for Local Governments

Cities LEAP

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Office of Energy Efficiency & Renewable Energy

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Home » About Us » Initiatives & Projects » Cities Leading through Energy Analysis and Planning

CITIES LEADING THROUGH ENERGY ANALYSIS AND PLANNING

- Blog
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- Leadership
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- EERE Offices
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- Initiatives & Projects
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Now Accepting Applications for Funding Opportunity Announcement

READ MORE

The Cities Leading through Energy Analysis and Planning (Cities-LEAP) project delivers standardized, localized energy data and analysis that enables cities to lead clean energy innovation and integrate strategic energy analysis into decision making.

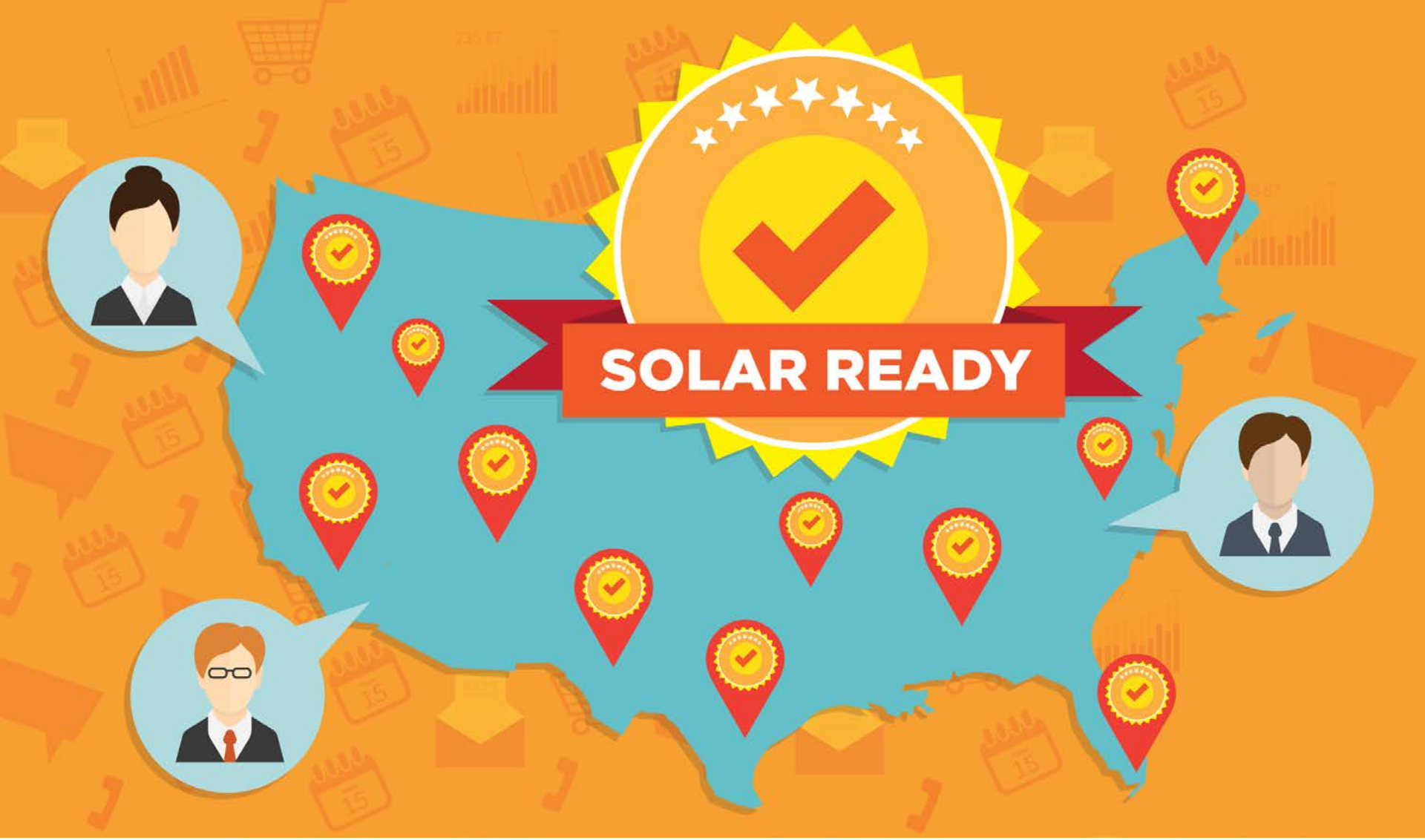
Cities-LEAP supports the widespread implementation of city-sponsored data-driven energy policies, programs, and projects that have the potential to drive a sea change in the national energy landscape. Through Cities-LEAP, cities will be able to:

- Set climate or energy goals
- Prioritize and implement energy strategies
- See the impacts of potential climate or energy action plans
- Learn from peers about city energy planning best practices
- Get access to credible data and transparent, usable analytic methodologies

Use the toolbox of actions to learn about community energy policy.

Current funding opportunity available (DE-FOA 0001403):
https://eere-exchange.energy.gov/

More information:
http://energy.gov/eere/cities-leading-through-energy-analysis-and-planning



Interested communities can apply for designation using an online intake form at

www.SolSmart.org/Apply

SOLSMART
NATIONALLY DISTINGUISHED. LOCALLY POWERED.

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STATE & LOCAL ENERGY EFFICIENCY ACTION NETWORK

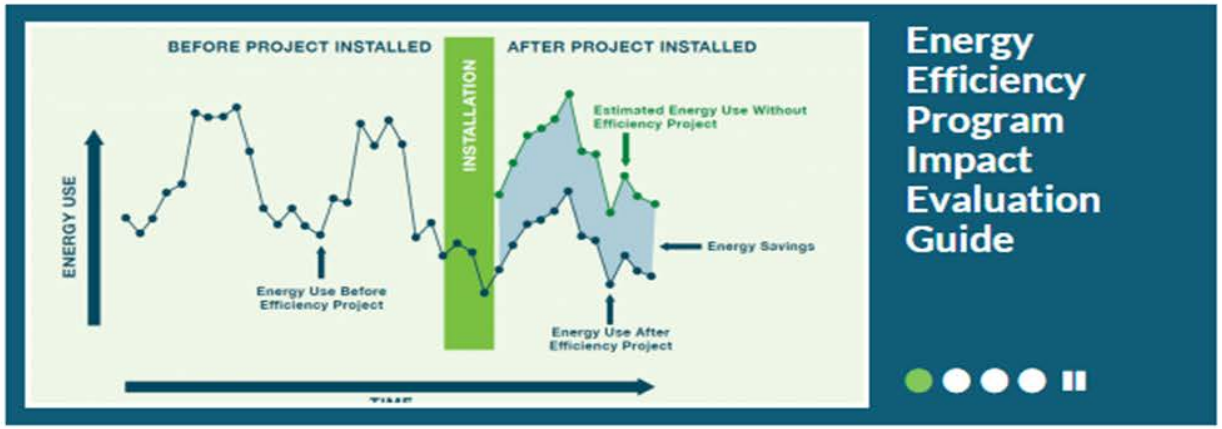
Our Network | Resources | Recent Actions | Events | Technical Assistance | Energy Efficiency Benefits

Energy Efficiency Policy and Program Resources

Explore what's working to advance energy efficiency across the country—based on state and local government experience.

- Behavior-Based Energy Efficiency >
- Combined Heat and Power >
- Commercial and Public Building Energy Efficiency >
- Energy Efficiency Financing >
- Energy Use Data Access >
- Evaluation, Measurement, and Verification >
- Industrial Energy Efficiency >
- Ratepayer-Funded Efficiency through Regulatory Policy >
- Residential Energy Efficiency >

The State and Local Energy Efficiency Action Network (SEE Action) offers resources, discussion forums, and technical assistance to state and local decision makers as they provide low-cost, reliable energy to their communities through energy efficiency.



Who's In The Network?

Meet our network of state and local leaders and subject matter experts advancing energy efficiency.

Upcoming Events

There are currently no events. See all past SEE Action events.

http://www4.eere.energy.gov/seeaction/

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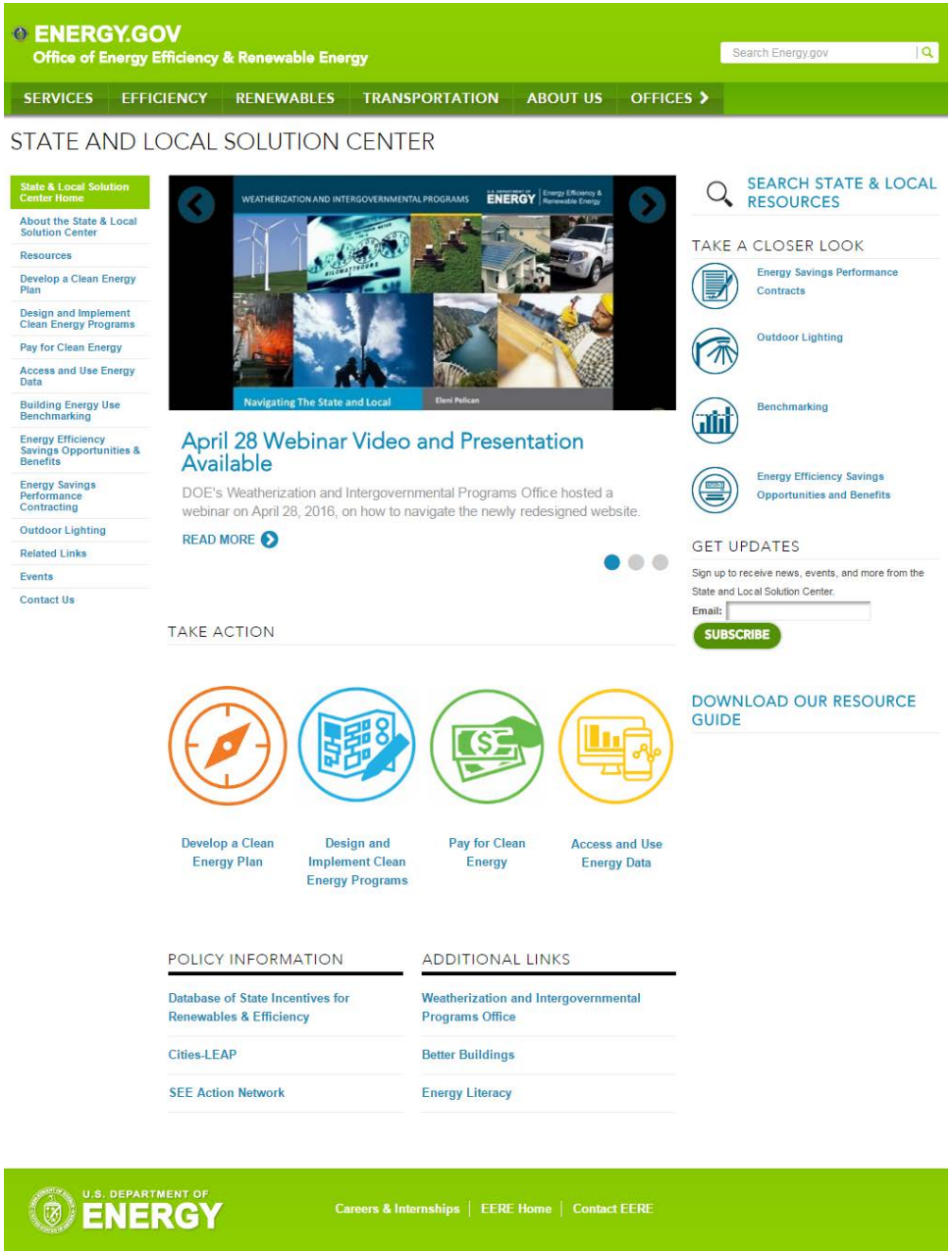
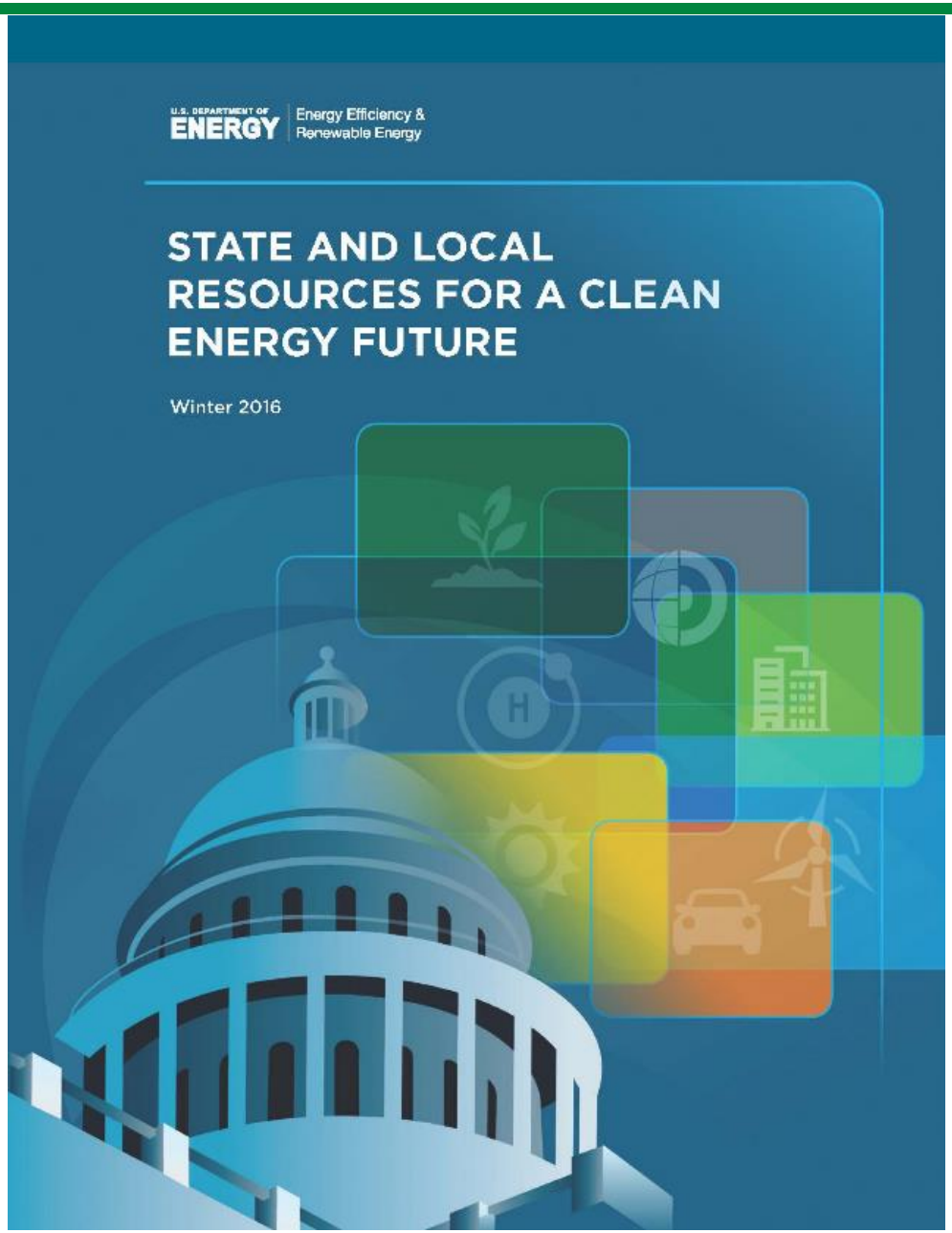
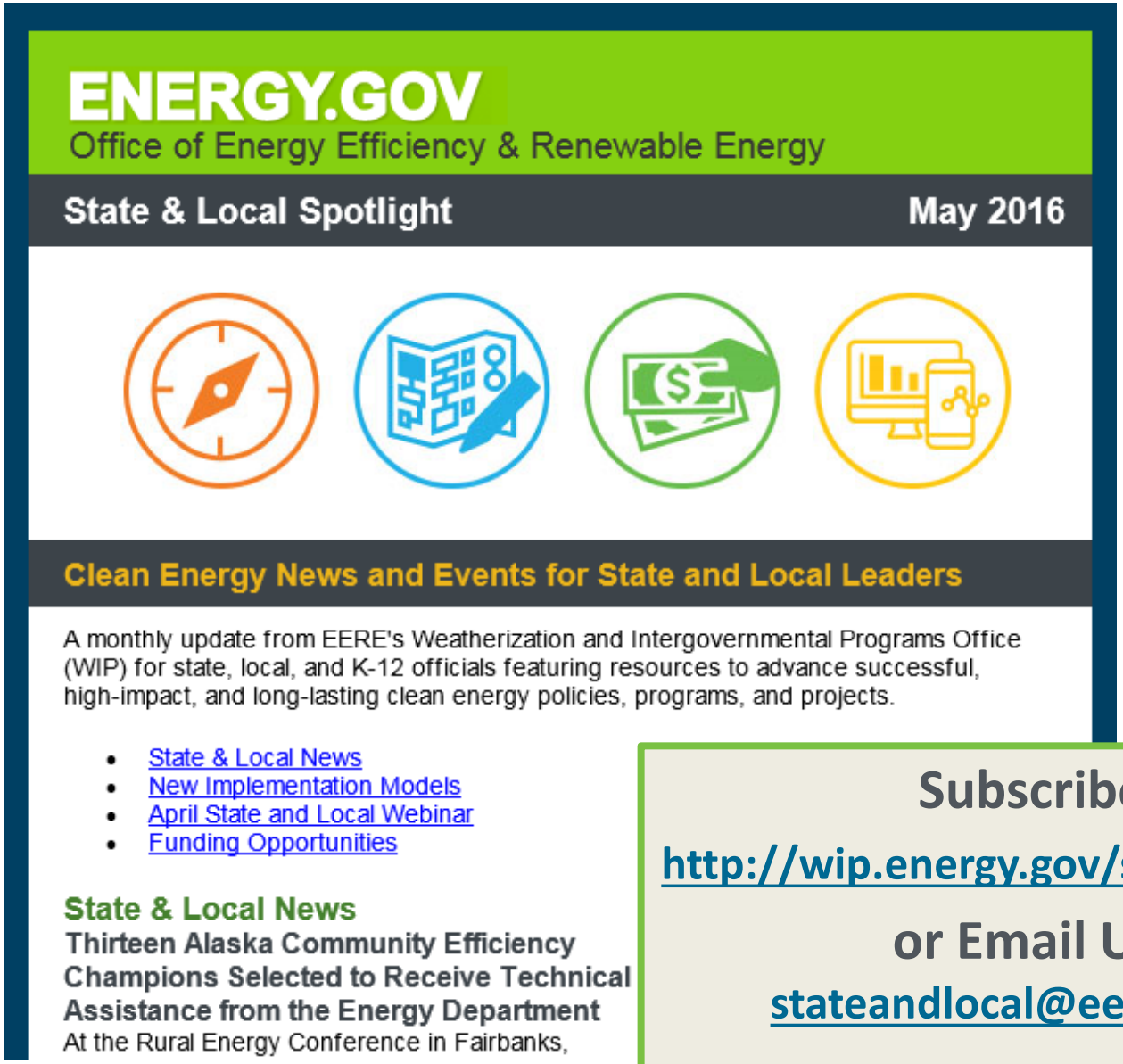
State & Local Solution Center - *New and Improved!*



State and Local Resources for a Clean Energy Future



State and Local Spotlight



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Office of Energy Efficiency & Renewable Energy

State & Local Spotlight May 2016

Clean Energy News and Events for State and Local Leaders

A monthly update from EERE's Weatherization and Intergovernmental Programs Office (WIP) for state, local, and K-12 officials featuring resources to advance successful, high-impact, and long-lasting clean energy policies, programs, and projects.

- State & Local News
- New Implementation Models
- April State and Local Webinar
- Funding Opportunities

State & Local News

Thirteen Alaska Community Efficiency Champions Selected to Receive Technical Assistance from the Energy Department

At the Rural Energy Conference in Fairbanks,

Subscribe:

http://wip.energy.gov/solutioncenter

or Email Us:

stateandlocal@ee.doe.gov