

# PEER SHARING AND BEST PRACTICES

## MODULE FIVE

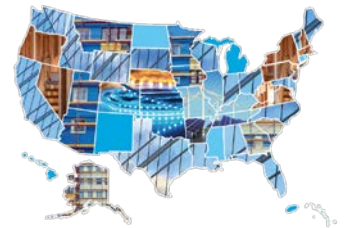
2019



# Introduction

**SEP Module Five will take you through the many tools available to you for sharing and exchanging information with other state programs.**

- SEP Peer Exchange Webinar Series
- What Other States Have Done: Implementation Models & Road Maps
- Success Stories
- WIP Project Map
- SEP Quarterly Update



# SEP Peer Exchange Webinar Series

Topic	Attendance	Outcomes
C-PACE	30 States	P&TA C-PACE Working Group
Energy Assurance and Resiliency	24 States	One-on-one peer discussions organized to brainstorm how SEP funding can support planning efforts
Plans for SEP Formula 2018 Funding	43 States	Feedback from attendees that this was the most popular exchange that gave a common ground for future collaboration
Maximizing the Impact of ARRA Loan Funds	25 States	One-on-one peer discussions organized around best case uses of ARRA funding
Plans for Additional PY18 Funding	34 States	One-on-one peer discussions organized around using additional funding to support Energy Assurance Planning
Workforce Development	28 States	Feedback from several attendees that information gained will lead to the expansion of formula work
EV Infrastructure	37 States	Outcomes TBD

SEP webinars are designed as an open forum where states can share experiences and get inspiration from peers. SEO feedback on topic ideas and formatting suggestions is critical to the continued success of this initiative—we welcome your ideas.

*Note: State SEP Managers will receive notification of upcoming webinars from DOE.*

*“We used information from the resiliency exchange to educate legislators and commissioners on the importance and what other states are doing.” –Peer Feedback*

# What Other States Have Done

An [Implementation Model \(IM\)](#) describes a replicable pathway for the deployment of energy efficiency in an organization.

The solution should address a key barrier to energy efficiency and provide details to the approach your organization took to create a sustainable solution, including:

- Policies
- Processes
- Outreach Efforts
- Tools/Resources.

High-Impact

Sustainable



Replicable

Measurable  
Results



IMs serve as a resource by highlighting other states facing similar barriers.



# Roadmaps And Implementation Models – Online



## IMPLEMENTATION MODEL: KENTUCKY

### COMBINED HEAT AND POWER (CHP)

Kentucky's significant potential for combined heat and power (CHP) has been realized despite its energy-intensive manufacturing economy. Kentucky saw its energy efficiency through deployment of CHP as a way to reduce energy bills, stimulate economic growth.

In 2014, Kentucky's Department of Energy Development and Independent Public Utilities (DEI) launched a stakeholder engagement initiative to explore policy, regulatory, and market barriers to industry and facility owners and operators (end-users) from achieving the reliability and other benefits of investments in CHP. With support from the DOE's Strategic Energy Plan (SEP) competitive award from the U.S. Department of Energy (DOE), DEI developed a plan to stimulate the market for CHP project development throughout the state.

Download the Combined Heat and Power: Kentucky Implementation Model



## New Mexico Energy Roadmap



### FINAL REPORT: New Mexico Energy Roadmap

- Goals and strategies to achieve a more sustainable economy
- Results of the deliberations of the Roadmap Steering Committee
- Metrics to guide implementation of the Roadmap

#### CONVENER

New Mexico Energy Minerals and Natural Resources Department (EMNRD)

#### RESEARCH AND FACILITATION New Mexico First



## New York State Offshore Wind

### 2018 Solicitation

#### 2018 Offshore Wind Request for Proposals is Live

NYSDORA has launched its first solicitation for offshore wind energy to help accelerate progress toward New York State's goal of developing 2,400 megawatts of offshore wind energy by 2030.

[Learn More](#)



Offshore wind energy is poised to become a major source of affordable, renewable power for New York State. Meeting New York's 2030 offshore wind goals will result in supplying 2,400 megawatts of clean power for the State, enough to power 1.2 million homes.

Benefits of offshore wind include:

- Clean, locally produced power where demand is highest
- Significant investments in coastal infrastructure and communities
- The opportunity for thousands of short- and long-term skilled construction, manufacturing, and operations jobs
- Renewable energy generation close to a densely populated region
- Diversified electricity supply

New York State is working diligently to ensure that offshore wind is developed in the most responsible and cost-effective way possible. With a world-class workforce, unmatched intellectual capital, physical infrastructure and financial institutions, and national clean energy policy leadership, New York plans to become a hub for the United States' emerging offshore wind energy industry.

# SEP Implementation Models – Replicate

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

State Energy Program

IMPLEMENTATION MODEL: RHODE ISLAND

RHODE ISLAND PUBLIC ENERGY PARTNERSHIP

Rhode Island's state energy office, the Office of Energy Resources (OER), is tasked with promoting energy efficiency in the public sector. While administering projects funded through the American Recovery and Reinvestment Act, OER gained greater awareness of the challenges facing public entities as they worked to lower operating costs in tightening budgets. Some municipalities and schools used Energy Efficiency and Conservation Block Grants (EECBG) to implement relatively minor projects, leaving many opportunities for deeper savings. Guided by the philosophy that if it's not measured, it can't be managed, OER launched the Rhode Island Public Energy Partnership (RIPEP) with the support of a U.S. Department of Energy State Energy Program Competitive Award.

**Goal** **20% ENERGY SAVINGS IN 100 PUBLIC FACILITIES**

To empower public entities to make smart energy decisions to achieve an average of 20% energy savings in at least 100 public facilities, to include state and local government, universities and K-12 public school facilities.

**Barrier** **PUBLIC SECTOR DATA**

Lack of public sector data infrastructure to measure energy consumption, prioritize projects, and track savings.

**Solution**

The state established the RIPEP, an unprecedented collaboration of key state agencies, municipal governments, utilities, and state university partners, whose mission was to create a comprehensive inventory of energy performance data for state and local public sector buildings that would be used to identify and prioritize energy efficiency upgrade projects. RIPEP was also charged with implementing energy efficiency measures and helping to identify and mitigate barriers to further public sector efficiency improvements.

**Outcome**

Rhode Island officials were able to use the energy use of facilities in order to prioritize energy efficiency projects. The RIPEP team implemented 100 energy efficiency projects with savings of 20%. The team exceeded the goal of 123 energy efficiency projects in three years with an average savings of 28.6% per project or 4.7% per building.

WEATHERIZATION AND INTERGOVERNMENTAL PROGRAMS OFFICE

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

State Energy Program

IMPLEMENTATION MODEL: MASSACHUSETTS 2012 STATE ENERGY PROGRAM COMPETITIVE AWARD

SAPHIRE PROGRAM

Energy use in public housing and public schools is critical to meeting state energy savings goals, but these sectors have traditionally been underserved. Many public housing and public school buildings depend on heating oil, gas, or pellets or another renewable source would significantly lower energy costs and air pollutant emissions. Efforts to achieve energy savings in this sector have been hindered by a lack of access to low-interest financing and capital for energy efficiency and renewable energy upgrade projects. To overcome these challenges, Massachusetts created the SAPHIRE program, a technical assistance and financing program for energy efficiency improvements and renewable thermal energy in public housing and public schools with financial support from a 2012 U.S. Department of Energy State Energy Program Competitive Award. Projects facilitated by SAPHIRE will result in estimated cost savings of nearly \$600,000 annually.

**Goal** **Greenhouse Gas EMISSION REDUCTION**

**↓25% BY 2020**

Achieve a greenhouse gas (GHG) emission reduction of 25% by 2020, from a 1990 baseline, as well as an 80% reduction by 2050.

**Barrier** **Public Housing DEVELOPMENTS LACK ACCESS TO CAPITAL AND LOW-INTEREST FINANCING**

Public housing developments and public schools lack access to capital and low-interest financing for energy efficiency and thermal renewable energy upgrade projects.

**Solution**

Massachusetts Department of Energy Resources (DOER) created the Schools and Public Housing Integrating Renewables and Efficiency (SAPHIRE) Program to provide technical assistance and funding to public housing developments and public schools to perform energy efficiency and renewable thermal projects.

**Outcome**

The SAPHIRE Program resulted in energy efficiency and renewable thermal projects in seven public housing and public schools. These projects are expected to yield nearly \$600,000 in energy savings annually. SAPHIRE projects were expected to result in energy savings reductions of up to 85%.

WEATHERIZATION AND INTERGOVERNMENTAL PROGRAMS OFFICE

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State Energy Program

IMPLEMENTATION MODEL: IOWA

ADVANCING ENERGY EFFICIENCY THROUGH THE IOWA BENCHMARKING PROJECT

The Iowa Energy Center (IEC) launched the Iowa Public Building Benchmarking Project in 2010 to collect building energy data in order to prioritize and catalyze public sector energy efficiency improvements by illustrating how buildings were operating and highlighting opportunities to reduce energy waste. The Project featured an online database of utility consumption in public buildings and identified \$3.9 million in potential energy cost savings in its first phase. Eager to build upon the early success of the Project, Iowa targeted and recruited building managers from the public sector to add 902 buildings to the database with financial support from a 2012 U.S. Department of Energy State Energy Program Competitive Award.

**Goal** **ENERGY CONSUMPTION IN PUBLIC BUILDINGS**

**↓20% BY 2020**

Achieve a 20 percent decrease in energy consumption in public buildings by 2020, based on a 2009 baseline.

**Barrier** **INCOMPLETE DATA ON PUBLIC BUILDINGS**

Decisions on energy efficiency improvements are difficult to prioritize across a large statewide public buildings portfolio when there is incomplete data on public buildings.

**Solution**

Engage public facility owners and utilities to expand the Iowa Public Building Benchmarking Project (Project), and use the Project's web-based benchmarking tool as the basis for energy efficiency project decisions in public buildings.

**Outcome**

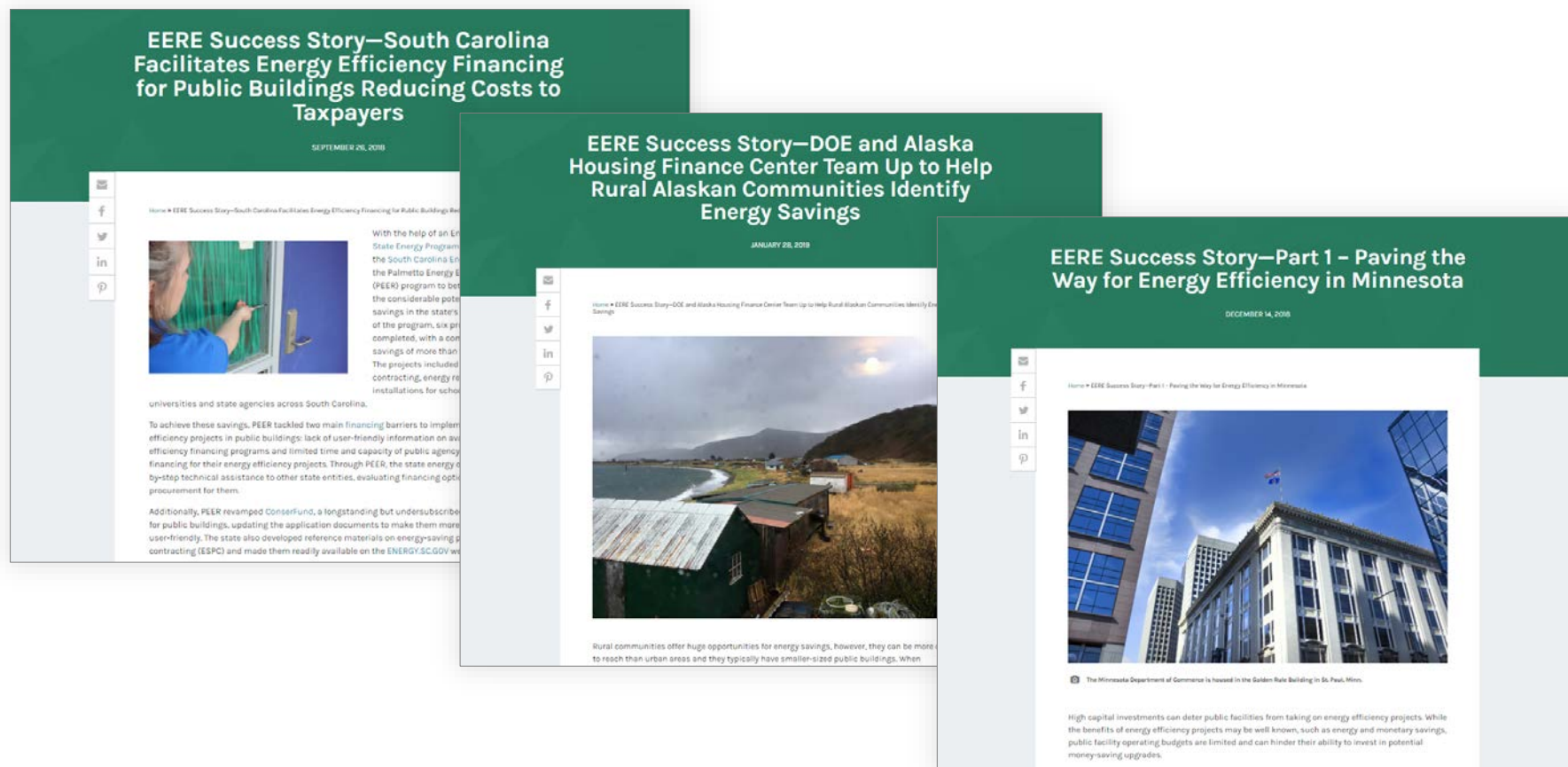
Iowa added 902 buildings to its benchmarking database; exceeding the project goal by almost 15 percent and nearly doubling the number of public sector buildings enrolled. Project enrollment increased from 1,274 to 2,176 buildings; representing over 40 percent of the estimated total public building portfolio, including: city, county, K-12 public school, higher education, and state buildings. The benchmarking tool identified a potential 1,090,398 million BTU in energy savings, representing \$14,175,177 of annual energy cost savings. Seven of the organizations participating in this program for at least one year realized an average energy use reduction of 4.8% annually. Iowa will continue to use this robust data set and analysis to prioritize and accelerate energy efficiency upgrades in Iowa's public buildings, moving the state closer to its energy goals.

WEATHERIZATION AND INTERGOVERNMENTAL PROGRAMS OFFICE

[www.energy.gov/eere/slsc/downloads/state-energy-program-competitive-solutions](http://www.energy.gov/eere/slsc/downloads/state-energy-program-competitive-solutions)



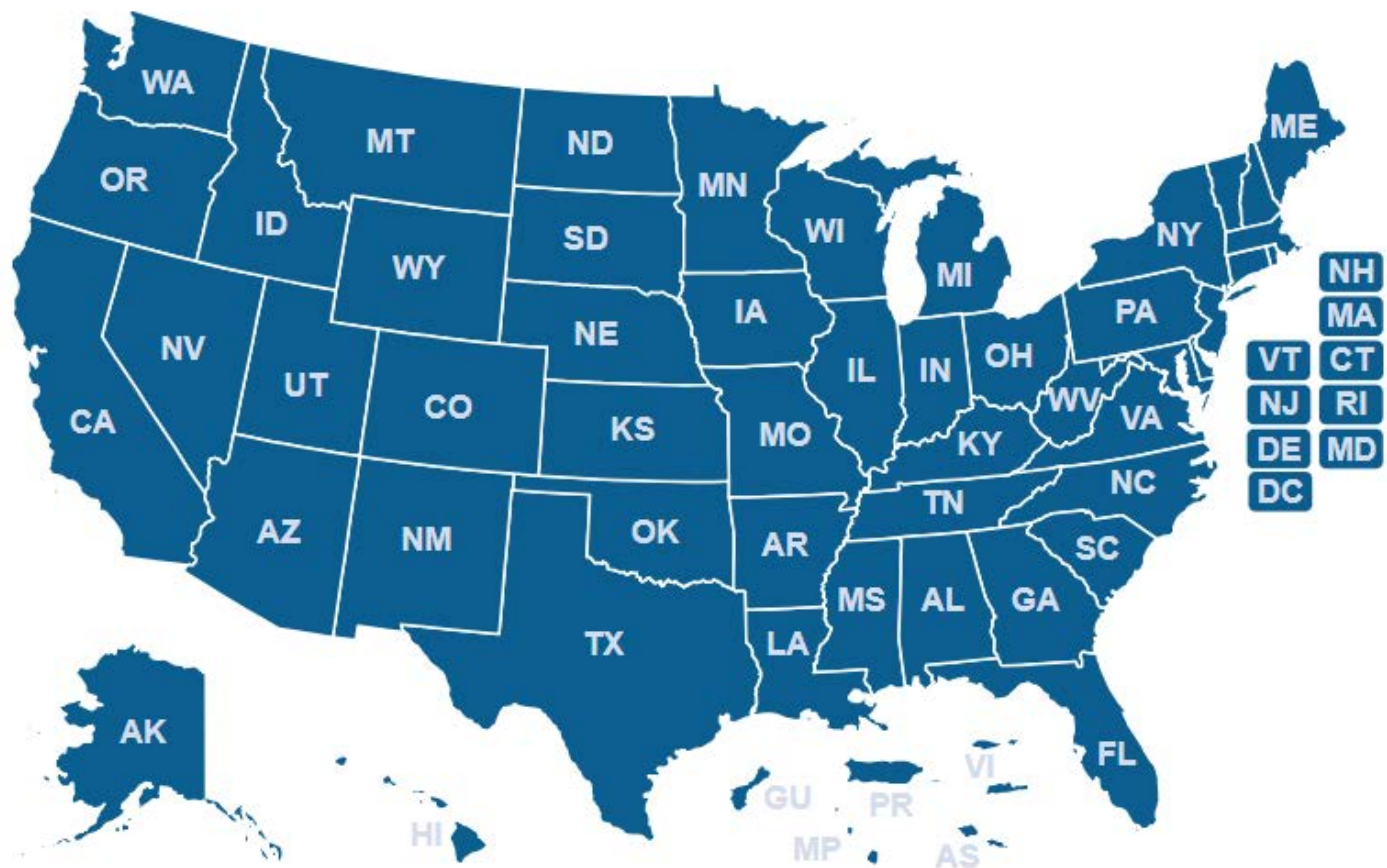
# Always Share Your Success



- Check out the SEP [success stories](#) highlighting successes across the United States.
- Have an SEP success of your own? Contact your project officer for a chance to be featured on the SEP website!

# WIP Project Map

See summaries of [SEP and WAP projects](#) and the [Better Buildings initiatives](#) in which state and local governments are participating.





# Look For The SEP Quarterly Update

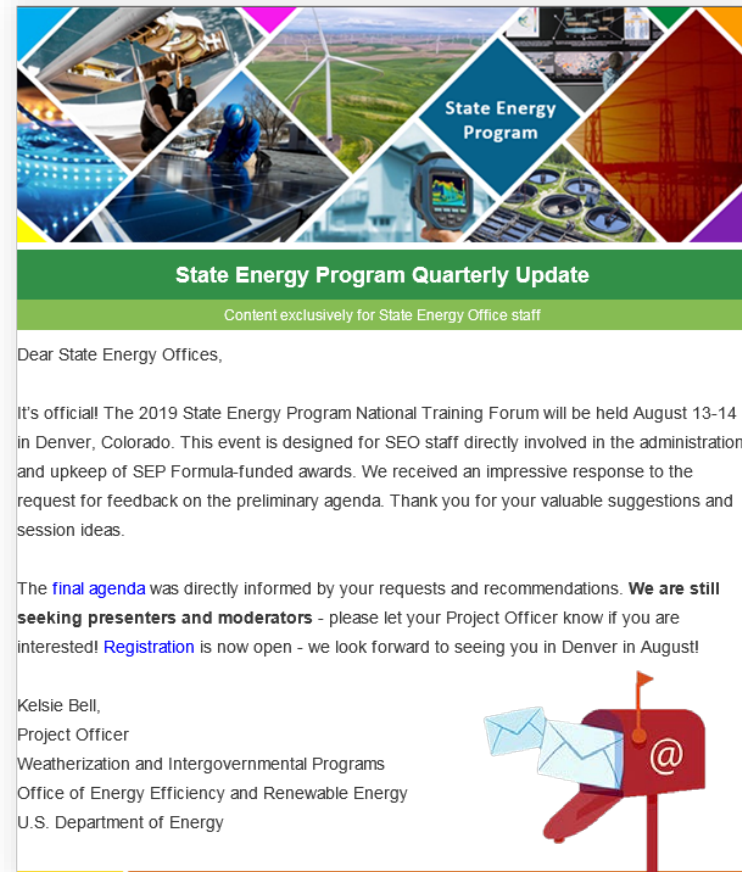
This update is tailored to you and other SEO staff and consists of new resources, helpful tools, reminders of upcoming events, recaps of recent activities, and state-showcased successes!

Hot Topics

Announcements

Tools & Resources

State Showcase



# Thank You

If you have any questions, please contact your DOE Project Officer.

Next training module: #6 Your Go-To Resources for SEP Including FAQs

