

Office of ENERGY EFFICIENCY & RENEWABLE ENERGY

U.S. State Energy Program and WIP Technical Assistance

2019 NASEO Annual Meeting Manhattan Beach, California

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WIP Mission

WIP Budget

State Energy Program

Technical Assistance Resources

WIP Mission



We enable STRATEGIC INVESTMENTS

in energy efficiency and renewable energy technologies through the use of **INNOVATIVE PRACTICES** across the United States and a wide range of stakeholders, in PARTNERSHIP with state and local organizations and community-based nonprofits.

RESULTS:

Saving taxpayer dollars



energy resources

Cutting energy waste

Improving energy independence and security



Furthering the development of energy infrastructure

Breakdown		FY 2018 Enacted	
State Energy Program	\$50M	\$55M	\$55M
Weatherization Assistance Program	\$225M	\$248M	\$257M
Total, Weatherization and Intergovernmental Programs	\$275M	\$303M	\$312M



SEP Mission

- SEP provides funding and technical assistance to 56 states, territories, and the District of Columbia to:
 - enhance energy security,
 - advance state-led energy initiatives, and
 - maximize the benefits of increasing energy efficiency.

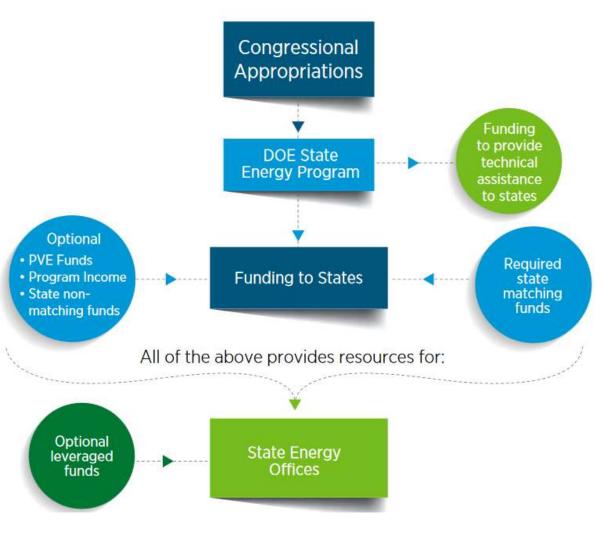
SEP creates jobs

- 1 job created per \$2500 invested
 - Example: Texas Clean Energy Incubators

SEP is cost effective

- \$4.50 saved per \$1 invested
 - Example: Illinois Wastewater Treatment Facility Program

SEP Outcome and Benefits



Data reported by states in PAGE between January 2017–June 2019:

- ✓ Increased energy savings in 22,000
 buildings (61 million square feet)
- ✓ 24,000 renewable energy systems installed
- ✓ 600,000 people educated in energy efficiency and energy audits
- ✓ ESPCs executed for public facility retrofits
- Coordination with utilities to implement complementary efficiency programs
- Innovative pilot projects with the private sector, K-12 schools and universities
- Implementation models for replicable programs that achieve energy efficiency savings

SEP 2019 Formula Funding Progress

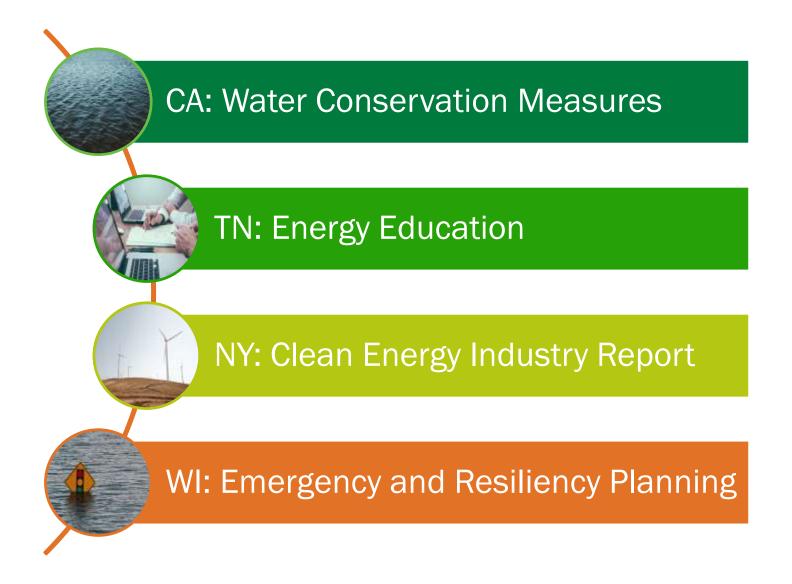
FY 2019 Formula Grant Progress

- Awarded all 42 July 1st state awards on time
- -One September 1st state awarded on time
- -10 October 1st states awarded to date

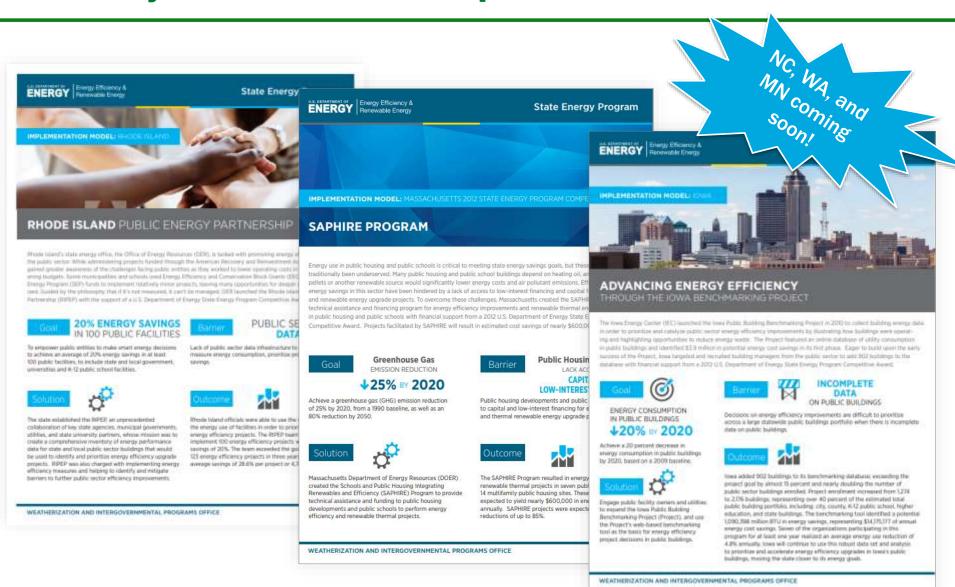




SEP Formula Funding Highlights



Recently Published SEP Implementation Models!



Orientation & Training Module for New SEP Staff

You will find six training modules covering the following introductory topics:

#1 Overview and History of the State Energy Program

- SEP Program Overview
- Where Did We Come From SEP's Origins
- Major Milestones in SEP's History
- What We Have Achieved Together Since 2017

#2 Understanding the Budget Process

- Federal Budget Process
- Where Funding Comes From and Where It Goes
- The "Formula" In the Formula Grant
- SEP Awards, Funding, and Application

#3 Roles & Responsibilities

- SEP and the State Energy Offices (SEOs)
- Roles and Responsibilities: Overview
- Roles and Responsibilities: More Detail



Orientation & Training Module for New SEP Staff

#4 The Must-Knows of Utilizing My SEP Funding

- Hierarchy of Federal Rules and Your State's Laws, Regulations, and Procurement Practices
- What is Mandatory, Optional, Prohibited, and Unallowable
- Link to Regulations for My Award

#5 Peer Sharing & Best Practices

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

#6 Your "Go-to" Resources for SEP

- SEP Operations Manual
- State and Local Solution Center
- EERE Resources for State and Local Leaders
- Program Guidance by Year
- Policy and Technical Needs Support
- FAQs





GOAL: Achieve greater consistency in the use of **Market Titles** or **Activities** so that the SEOs and WIP are better positioned to share the impacts of SEP with state legislators and governors, U.S DOE leadership, other federal agencies, the U.S. Congress, and others.

- State-led effort in coordination with NASEO and DOE.
- Reporting system (i.e., PAGE) last updated 10 years ago.
- Ensure that growing policies and programs in such areas as **Energy Security** and **Workforce Development** are captured and successes shared.
- Team continues to develop and refine the naming convention and organization while utilizing to the extent possible the existing reporting structure/data fields.
- Will not affect your PY19 awards.
- Launch date TBD.



SEP National Training Forum

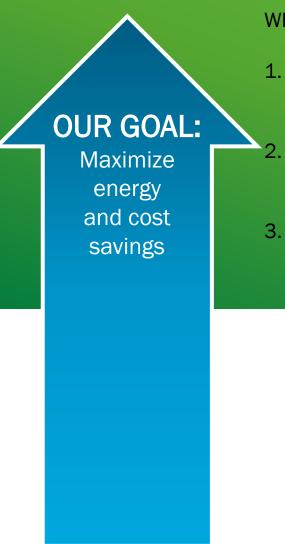
- By the numbers:
- ✓ 75 non-DOE attendees
- ✓ 40 states represented
- ✓ 4 territories + Washington D.C.
- Topics discussed included:
 - Federal regulations
 - Allowable use of SEP funds
 - Strategic planning for formula funds
 - Administrative best practices
 - Program design
 - Reporting guidance
 - Stakeholder engagement
- Successful peer exchange



Technical Assistance Resources



WIP Technical Assistance



WIP provides technical assistance that:

- 1. Offers TOOLS AND SOLUTIONS to barriers facing states, local governments, and K-12 schools
- 2. Convenes and creates PEER EXCHANGES to showcase publicsector leadership and effective public-private partnerships
- 3. Provides information from leading TECHNICAL EXPERTS

We help states, local governments, and K-12 schools:



Develop an Energy Plan



Design and Implement Energy Programs



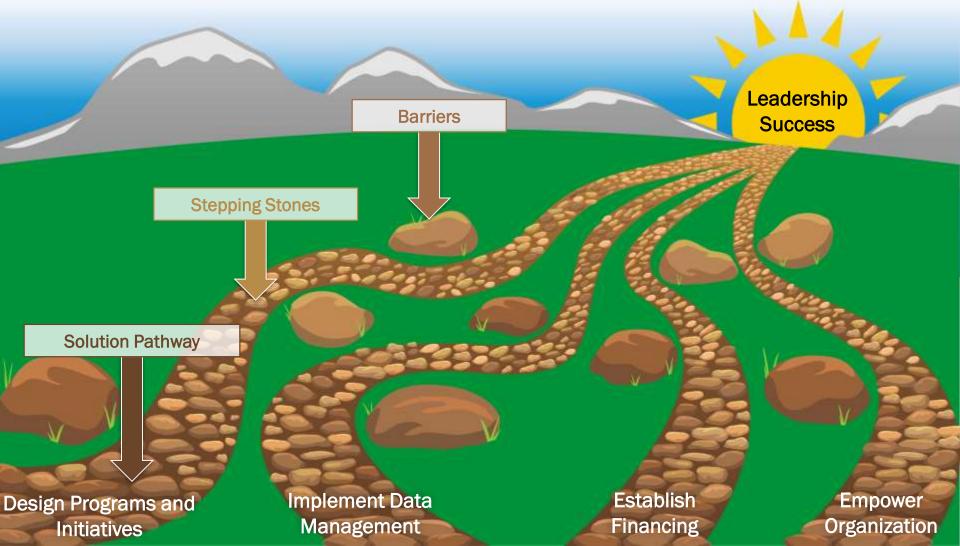
Pay for Energy Infrastructure



Access and Use Energy Data

Energy Efficiency Leadership Framework

Thank you to those that provided valuable feedback at our July Leadership Event and August SEP National Training Forum!



Resilience



Photo Credit: Gerald Herbert/AP; https://bit.ly/2kydffz

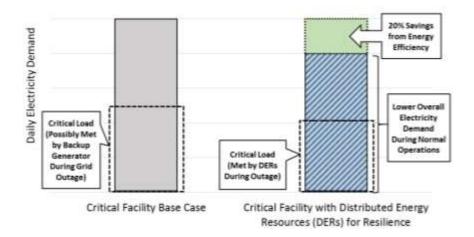
Resilience Resources

- Fact Sheet: <u>EE and Distributed Generation for</u>
 <u>Resilience</u>
- Analysis Guide: Assessing How DERs Can Improve Resilience in Public Buildings
 - Case studies
 - Step-by-step instructions to perform analysis

In 2017, the U.S. experienced natural disasters* that cost more than \$300 billion in damages and led to longer and more frequent disruptions in power

*Droughts, floods, freezes, hurricanes, and wildfires Source: National Oceanic and Atmospheric Administration

> Distributed Energy Resources for Resilience: Before and After DER Investment



Energy Savings Performance Contracting (ESPC)

ESPC Measurement and Verification (M&V) Resources

- <u>The Business Case for Conducting M&V</u>
- <u>Strategies for Successful M&V</u>
- <u>Understanding Your Guarantee</u>

Additional ESPC Resources

<u>NASEO-ESC-NAESCO State GESPC Principles</u>



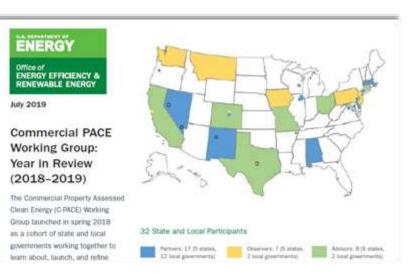




- <u>Goal</u>: Stimulate a \$60M investment in C-PACE among Partners in the Working Group by 2022
- Status: Partners have closed ~\$11M in C-PACE financed projects since March 2018

C-PACE Resources

- <u>C-PACE Working Group: Year in Review</u>
- <u>C-PACE Financing and the Special Assessment Process</u>
- Lessons in C-PACE Leadership: The Path from
 Legislation to Launch
- <u>Toolkit: C-PACE Financing for Resiliency</u>





Commercial PACE Financing and the Special Assessment Process: Understanding Roles and Managing Risks for Local Governments Greg Levents and Use Schwartz, Levence Berkeley National Laboratory

Executive Summary

This issue brief is for local governments that are well-positioned to gatchipme in a commercial property assessed clean energy (C-PACE) program but are looking to inform a decision about whether to join or create a program. This resource addresses two upecific barriers there local governments may face regarding C-PACE programs: (1) uncertainty about the likelihood of tax forcelosure on properties in default of C-PACE payments and the trick local governments bear, and (2) uncertainty about the useff labor committeent associated with administering the program, including the securition of the special tax assessment process.

Key findings from this issue brief include: To date, defaults and tax foreclosures happen very rarely, but delinquencies do occur.



Workers install an efficient lighting somether, 2.3, they also be live to the

70+ facilities in 23 states working to achieve30% energy savings



Based on partner data through 2017

Available Early 2020!

Wastewater Energy Management Toolkit

- Energy Data Management Manual
- Low- and No-Cost Measures Checklist
- 23 Measure Planning Workbooks

- <u>Guide to Energy Savings Performance</u>
 <u>Contracting</u>
- Financing Comparison Matrix

Clean Energy for Low Income Communities Toolkit

https://betterbuildingsinitiative.energy.gov/CELICA-Toolkit

CELICA PROGRAM DEVELOPMENT ACTIVITIES

Program development refers to the planning and implementation actions program administrators take to create and manage a program.





Analysis





CELICA PROGRAM MODELS

Program model refers to the defining features of a program, such as target market, key product and service attributes, terms and conditions, resource flows and benefits.



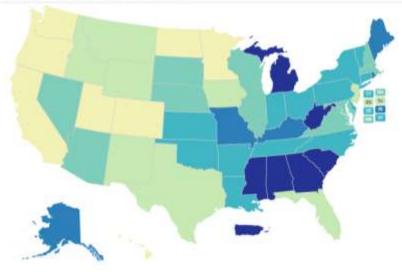
<u>Types of Resources in the CELICA Toolkit:</u> Case Studies, Promising Practices, Issue Briefs, Data Tools, and Templates

Low-income Energy Affordability Data (LEAD) Tool



United States o

Click any state to view counties, census tracts, and cities,



LEAD Tool: https://www.energy.gov/eere/slsc/maps/lead-tool

LEAD Tool Tutorial:

https://www.youtube.com/watch?v=i9D5XBK6aKE

Goal: Help stakeholders make datadriven decisions on energy goals and program planning by improving their understanding of low income and moderate income household energy characteristics.

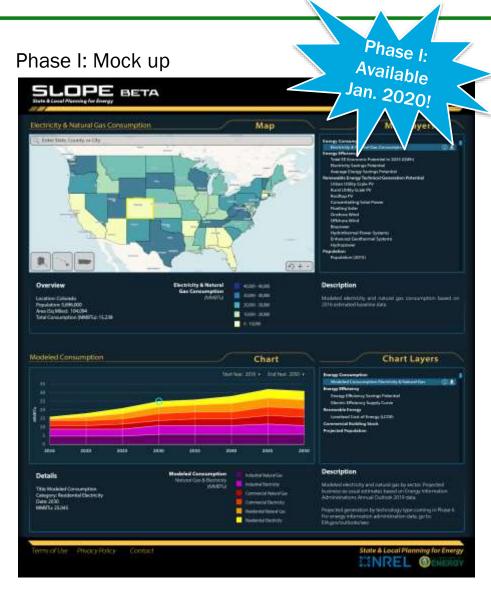


State and LOcal Planning for Energy (SLOPE) Platform

A platform for state- and locally-specific comprehensive energy planning data in the areas of energy efficiency, renewable energy, and sustainable transportation

Capabilities

- Enables "apples-to-apples" comparisons of adjustable energy futures with inputs from variety of data points, such as:
 - Electricity and natural gas consumption
 - Renewable energy generation potential
 - Levelized cost of energy (LCOE)
 - Projected population
- Phase 1: Projection data available (Jan. 2020)
- Phase 2: Integrated, granular platform with adjustable settings and transportation and generation mix data (begins 2020)



Energy Data Management Guide

Take control of your energy data in seven steps!

Access the guide's:

- Proven strategies with demonstrated, portfolio-wide energy savings
- Data management tools and resources
- Customizable templates and worksheets
- Relevant examples and case studies

2.4% is the average annual energy savings for buildings that benchmark.
 Over 10 years, this results in cumulative energy savings of >20%.

Source: ENERGY STAR, EPA

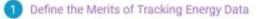
Step-by-Step Process

You're only seven steps away from taking control of your energy data.

Available Dec. 2019

Generate Buy-In

Get Started



Align with Organizational Goals

Build a Solid Foundation

- Create a Central Database
- Streamline Access to Data
- Leverage Data Management Tools

Hardwire Energy Management

- 6 Optimize the Organizational Structure
- Drive Engagement and Communicate Results

For more information, check out the Energy Data Management Guide Fact Sheet.

Stay Connected

- <u>State and Local Solution Center</u>
 - 500+ public-sector tools, resources, and best practices
- <u>State and Local Spotlight</u>
 - Monthly newsletter with 33,000+ subscribers
- Better Buildings Solution Center
 - Partner solutions that can spur energy efficiency investments

Subscribe: http://energy.gov/eere/slsc Contact: stateandlocal@ee.doe.gov

ENERGY EFFICIENCY & RENEWABLE ENERGY RESOURCES

FOR STATE & LOCAL LEADERS

