

# EERE's State Energy Program and Intergovernmental Technical Assistance

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# WIP Pillars

## **Weatherization Assistance Program (WAP)**

- Established under Title IV of the Energy Conservation and Production Act of 1976.
- Helps eligible low-income households reduce the comparatively large percentage of available income that they spend on energy.
- Funds distributed through formula allocation and delivered via community action networks with State and Federal oversight.

## **State Energy Program (SEP)**

- Established under the Energy Policy and Conservation Act of 1975.
- Provides support for core programs in state energy offices to advance their energy priorities and support innovative policies and programs.
- Funds allocated to State Energy Offices via formula and competitive mechanisms.

## **Intergovernmental Technical Assistance**

- WAP and SEP Teams provide technical assistance, implement programmatic initiatives, and develop and disseminate best practices with Grantees.
- The Partnership and Technical Assistance Team delivers targeted initiatives to broad networks of state-local partners and disseminates tools and resources.
- WIP conceives and leads interagency partnerships with other Federal agencies.

# EERE Program Priorities

100%  
decarbonized  
electric grid by  
2035

Decarbonize  
energy intensive  
industries

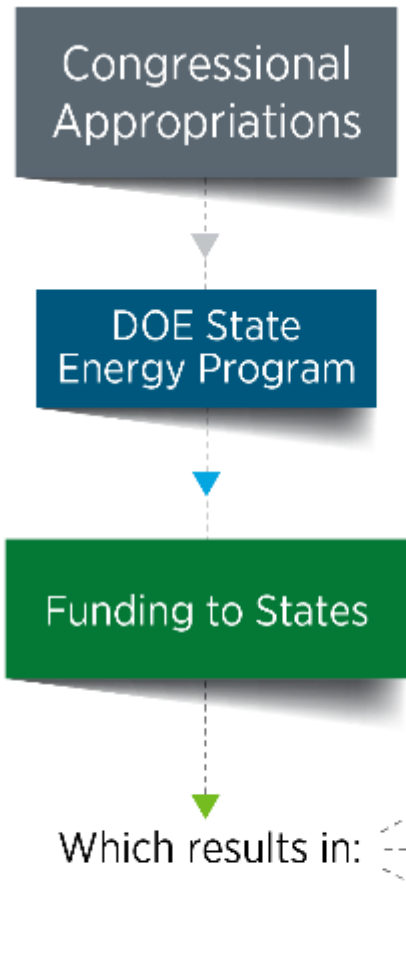
Enable a net-  
zero agricultural  
sector

Decarbonize  
transportation  
across all modes

Reduce the  
carbon footprint  
of buildings

# SEP - Distribution and Outcomes

SEP has provided approximately \$300M to 56 State Energy Offices (SEOs) since 2016 via Formula Grants and Competitive Awards.



**ENERGY RESILIENCY** **LOW-COST FINANCING PROGRAMS**  
**DISTRIBUTED GENERATION** **COMBINED HEAT AND POWER**  
**COMMERCIAL AUDITS & RETROFITS** **IMPROVED HOME ENERGY EFFICIENCY**  
**STATE ENERGY PLANNING**  
**IMPROVED APPLIANCES** **ENERGY EMERGENCY PLANNING**  
**BETTER MOTORS** **SMALL HYDRO ENERGY** **ENERGY RELIABILITY**  
**INDUSTRIAL REVITALIZATION** **INNOVATIVE ENERGY**  
**LED LIGHTING** **STATE TECHNOLOGY DEMONSTRATIONS**  
**RETOFITS** **FACILITY** **ENERGY EDUCATION**  
**SOLAR AND WIND POWER** **RETOFITS** **TELECOMMUTING**

# Technology Action Groups (TAG)

## *TAG Basics*

New voluntary initiative  
piloted in PY21

Best practices and  
lessons learned model  
aimed at creating a  
collaboration to spur  
multi-state innovation in  
SEP

Model construct  
conceived by SEP and  
informed by NASEO  
Board

## *TAG Topics*

**Onsite energy  
systems at critical  
facilities**

**Main Street  
revitalization**

## *TAG Benefits*

Amplifies impact of SEP  
formula funding through  
partnerships and  
cooperation based on  
common goals

Makes progress towards:

- Individual state progress  
through collaboration and  
state investment
- New resources designed  
specifically for States that can  
help catalyze further action
- Toolkits, case studies, etc.  
that can be used by all states,  
not just states in TAG

# Workforce Development



## Goals

- Determine what workforce development activities SEOs are undertaking;
- Create avenues for states to learn from each other; and
- Develop an initiative for states to work together to tackle specific workforce development barriers.



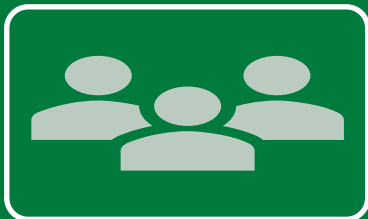
## Expected Outcomes

- Report(s) detailing state efforts in workforce development – best practices, gaps
- Report(s) on energy jobs baselines and forecasting by state.
- Initiative for states to tackle 1-2 specific workforce development barriers



## Work to date

- Research on state workforce development activities – best practices, gaps; transferrable programs; current energy job landscape
- Webinar for states on job projection research (November 2020)



## Next Steps

- Continue research, develop reports
- Webinars to share research results, facilitate peer exchange

# Partnerships and Technical Assistance (P&TA) Team



Working in partnership with states, local governments, K-12 school districts, and stakeholders to:



Convene **PEER EXCHANGES** to showcase replicable models



Create **TOOLS AND SOLUTIONS** that address pervasive barriers



Provide **TECHNICAL DATA AND INFORMATION** from leading experts



**Goal:**  
**Maximize energy and cost savings**

# Public-Sector Partnerships

**230+ Partnerships\***

**60+**



**State Governments**

## Financing Investments

*ESPC Accelerator*  
**\$2.1 Billion**

*C-PACE Working Group*  
**\$70 Million**

**140+**



**Local Governments**

## Buildings Savings

*Better Buildings Challenge*

**\$1 Billion**

**109 Trillion Btus**

**1.5 Billion**  
Gallons of Water

**25+**



**K-12 School Districts**

## Infrastructure Savings

*Sustainable Wastewater  
Infrastructure of the Future  
(SWIFT) Accelerator*

**131 Million kWh**

*Outdoor Lighting Accelerator*  
**\$48 Million**  
per year

*Cumulative unless noted otherwise.*

*\* Public-sector partners since 2011 that signed a formal partnership agreement and worked or are working toward a voluntary goal.*

# Initiatives



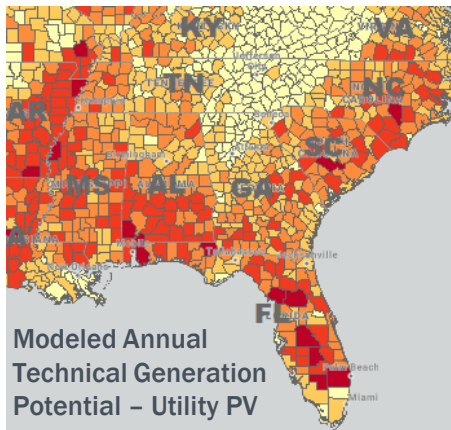
## Sustainable Wastewater of the Future (SWIFt) Initiative

- **SWIFt Phase 2 – voluntary partnership goals**
  - Engage 200 water resource recovery facilities to achieve 5% short-term and 25% long-term facility wide energy savings.
  - Work with 25 water resource recovery facilities to implement at least one next-generation technology (e.g., renewable energy, resource recovery, advanced data management).
- **Wastewater Energy Management Toolkit**
  - **SWIFt Phase 1 tools and resources** more than 70 WRRFs used 2016-2019 to cumulatively achieve almost 7% (131 million kWh) in energy savings and put in place plans for 30% long-term energy savings.

## Sustainable Corrections Infrastructure Partnership (SCIP) Accelerator

- Voluntary partnership of public departments of corrections working with DOE over three years to achieve portfolio-wide energy savings of 20% and create replicable solutions to catalyze energy resilience in the corrections sector.
- Partners represent more than 20% of state correctional facilities.

# Technical Assistance



## ESPC Market Opportunity<sup>1</sup>

### PROJECT INVESTMENT OPPORTUNITY<sup>12</sup>

MUSH MARKET  
**\$66–208 BILLION**

FEDERAL MARKET  
**\$3–15 BILLION**

### ENERGY SAVINGS POTENTIAL<sup>13</sup>

MUSH MARKET  
**200–262 TRILLION BTU**

FEDERAL MARKET  
**27–68 TRILLION BTU**

## How DERs Can Improve Resilience in Public Buildings

- “How to” guide that describes the benefits of integrating energy efficiency with other distributed energy resources to assess resilience benefits through the specific application of two DOE tools (REopt Lite and DER-CAM), including resilient energy system cost reductions of over \$400,000 at a single critical facility through energy efficiency.

## ESPC MUSH Market Working Group

- A collaboration to support improved and expanded ESPC best practices for the MUSH market and state ESPC programs.
  - **ESPC Toolkit:** tools/resources that 25 state and local government partners used 2016-2019 to invest \$2.1 billion in energy efficiency.
  - **NASEO-DOE Return to Work Initiative:** ESPC trainings for 500 state and local staff by June 2021.

## State and Local Planning for Energy (SLOPE) Platform

- A WIP-led collaboration across 9 EERE offices and NREL to integrate and deliver jurisdictionally resolved data and analyses in an easy-to-access online platform that enables data-driven state and local energy planning and decision-making with over 8,400 visits in FY20.

<sup>1</sup> DOE. *Energy Savings Performance Contracting: Improving Infrastructure & Turning Waste into Wins* (2017).

# Stay Connected

## State and Local Spotlight

- Monthly newsletter with more than 33,000 subscribers.

## State and Local Inbox

- 70 email inquiries answered in 2020.

## State and Local Solution Center

- Online, public-sector focused portal with over 110,000 visits and 15,000 downloads in FY20.

## Better Buildings Solution Center

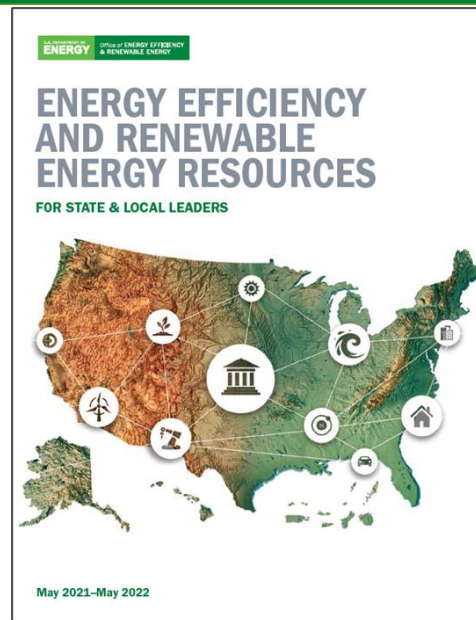
- Online, building-specific portal with over 3,000 proven energy, water, and waste efficiency solutions.

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