

U.S. DEPARTMENT OF
ENERGY

Office of
ENERGY EFFICIENCY &
RENEWABLE ENERGY

STATE ENERGY PROGRAM (SEP) COMPETITIVE AWARDS KICK-OFF

2019 NASEO Energy Policy Outlook Conference

State Energy Program (SEP)
Weatherization and Intergovernmental Programs
Office of Energy Efficiency and Renewable Energy
U.S. Department of Energy

February 5, 2019



Welcome and Introduction

Amy Royden-Bloom

Overview of the SEP Competitive Awards

AGENDA

- **1:00pm - Welcome and Introductions**
- **1:30pm - State Energy Program and FY17 Awards**
- **2:30pm - Adjourn**

DOE AND STATE GOALS



DOE Goals:

1. **Collaborate** with Competitive awardees to create successful energy programs, policies, and market strategies
2. **Understand** what makes a successful program
3. **Share** this information with the SEO networks and stakeholders like NASEO
4. **Replicate** successes across the country
5. **Save energy!**

State Goals:

1. **Develop** easy and effective energy efficiency policy frameworks and programs
2. **Implement** successful programs
3. **Learn** through the process
4. **Share** lessons learned with peer states, cohorts, and DOE
5. **Save energy!**

STATEMENT OF SUBSTANTIAL INVOLVEMENT

EERE has substantial involvement in work performed under Awards made following this FOA. EERE does not limit its involvement to the administrative requirements of the Award. Instead, EERE has substantial involvement in the direction and redirection of the technical aspects of the project as a whole. Substantial involvement includes, but is not limited to, the following:

- EERE shares responsibility with the Recipient for the management, control, direction, and performance of the project.
- EERE may intervene in the conduct or performance of work under this Award for programmatic reasons. Intervention includes the interruption or modification of the conduct or performance of project activities.
- EERE may provide technical assistance to help States and their partners achieve the goals of the project.
- EERE participates in major project decision-making processes.

SUPPORTING RESOURCES

DOE will support States in successfully accomplishing their goals by:

- **Leveraging Expertise of DOE EE/RE Offices**
 - Technical Advisors on-hand to help: EE Front Office; Buildings and Technology Office; U.S. Environmental Protection Agency; Advanced Manufacturing Office
- **Establishing Cohort Collaboration**
 - Project Officers and the Partnerships & Technical Assistance (P&TA) staff will bring together cohorts of States with similar goals and barriers to enable information sharing and collaboration
 - DOE will feature best practices so that the lessons learned will help others addressing similar situations
- **Providing Technical Assistance (TA)**
 - DOE will offer webinars, workshops, peer exchanges, and other TA to address specific needs of States

SUPPORTING RESOURCES

DOE will support States in successfully accomplishing their goals by:

- **Supporting Data Collection**
 - DOE will work with States to support project data collection. In addition to data webinars, States will have access to one-on-one data support
- **Holding Grant Management Discussions**
 - Participating in project management planning activities to ensure DOE's Program requirements and/or limitations are considered
 - Working with awardees in the development of consistent best practices and implementation of those best practices in other programs
- **Disseminating Successes**
 - DOE will share Implementation Models and Roadmaps in the State and Local Solution Center and on the SEP website, recognize State success at DOE and NASEO events, and feature best practices so that the lessons learned help others in their energy efficiency efforts

PEER EXCHANGE AND TEAMWORK

"The structure and requirements of the competitive award required us to stretch to grow the program, teach and inspire other states, as well as figure out how to sustain such efforts once the funding ended."

"Not sure if our project would have happened, without SEP award and definitely not at the speed it did"

"We have been able to facilitate almost \$90M in projects across our state. Local government projects have helped communities update infrastructure and save on utility expenses for our communities."

All of our programs grow stronger when we exchange our best ideas and lessons learned!

TEAMWORK

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Supervisory PO



**States: AK, AL, CO,
DC, GU, MD, MN,
MO, NC, NJ, NM,
NY, RI, UT, WV, WI**



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Technical Experts:
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Kirsten Verclas
Monica Neukomm

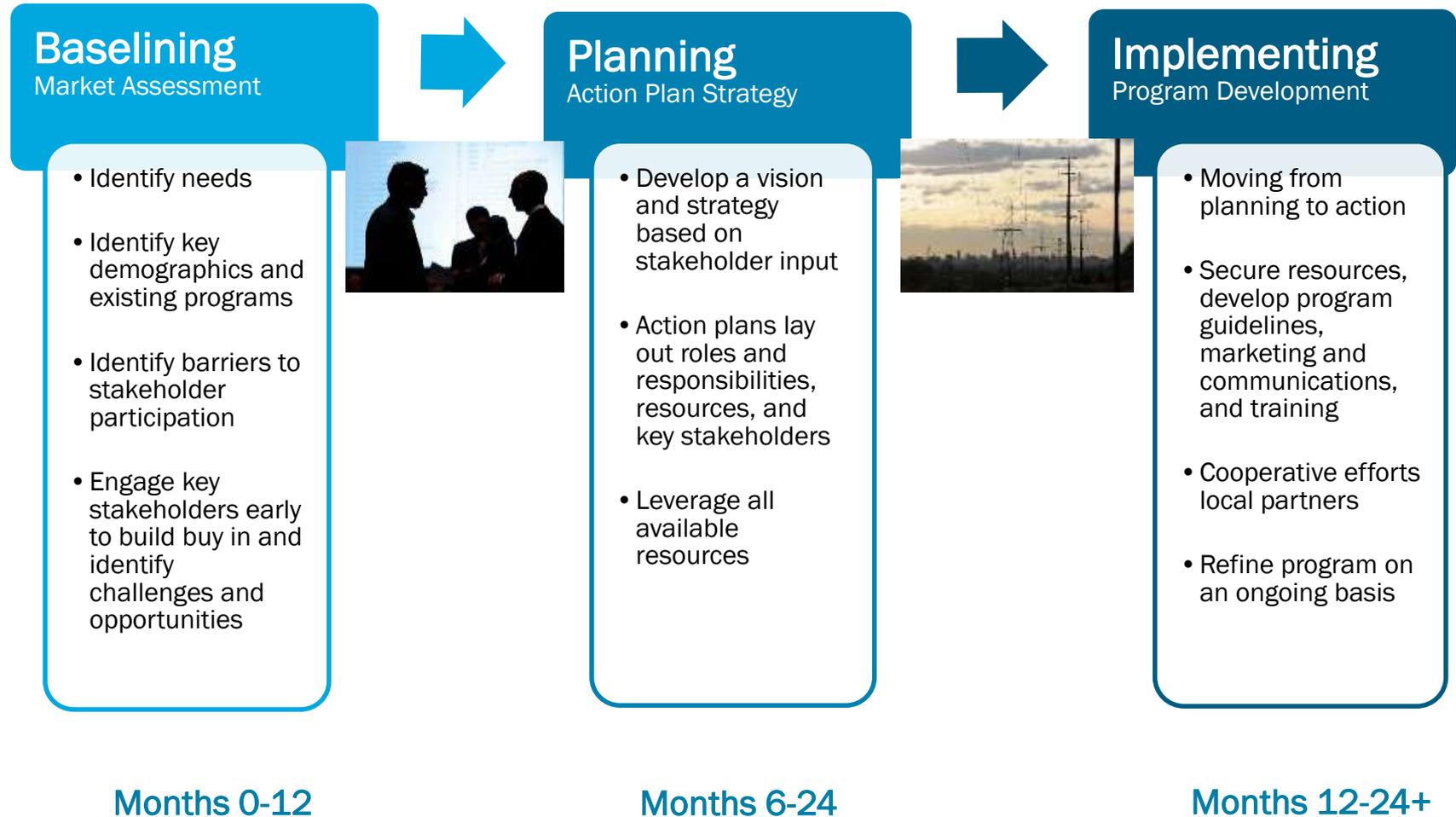
DELIVERABLES

Roadmaps will serve as a guide for project implementation that achieves State or regional energy, environmental and economic development goals with milestones set for 5-10 years out. (AOI 1 states)

Implementation Models are highly replicable pathways for the deployment of energy efficiency in an organization. They provide specific details on the approaches organizations take to create sustainable solutions and what they achieved. (AOI 2 states)

Executive Summaries will provide insight into how the technical assistance provided either 1) increased impact of existing SEP formula work or 2) contributed to the creation of additional SEP formula activity. (AOI 3 states)

The Roadmap Process – State Energy Planning

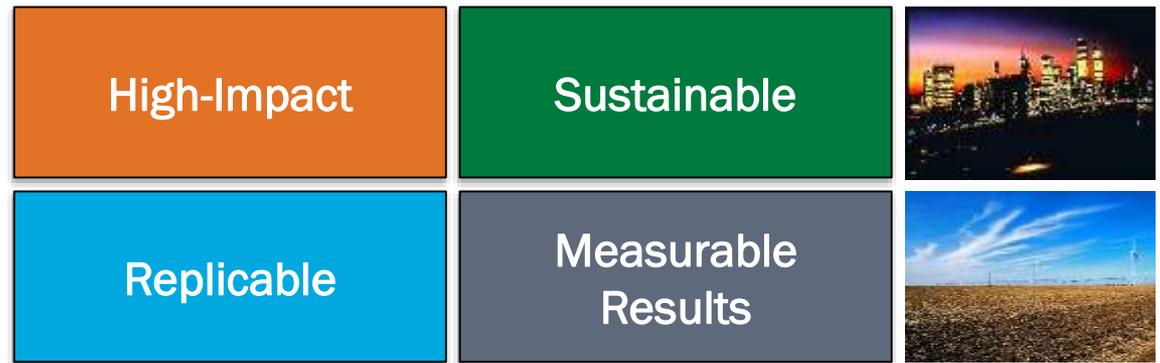


IMPLEMENTATION MODEL

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



The Implementation Model will serve as a **resource** for other States facing similar barriers.

EXECUTIVE SUMMARY



The goal of Area of Interest 3 is to expand or add to a State's portfolio of SEP Formula work.

The primary project deliverable will be an *Executive Summary* detailing how the **technical assistance** either:

- 1) increased the **impact** of existing SEP formula work or
- 2) contributed to the creation of an **additional** SEP formula activity

ROADMAPS & IMPLEMENTATION MODELS ONLINE



New Mexico Energy Roadmap

FINAL REPORT: New Mexico Energy Roadmap

- Goals and strategies to achieve a more resilient energy economy
- Results of the deliberations of the New Mexico Energy 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



Kentucky's significant potential for combined heat and power (CHP) has remained untapped despite its energy-intensive manufacturing economy. Kentucky saw increased industrial energy efficiency through deployment of CHP as a way to reduce energy bills, protect jobs, and spur economic growth.

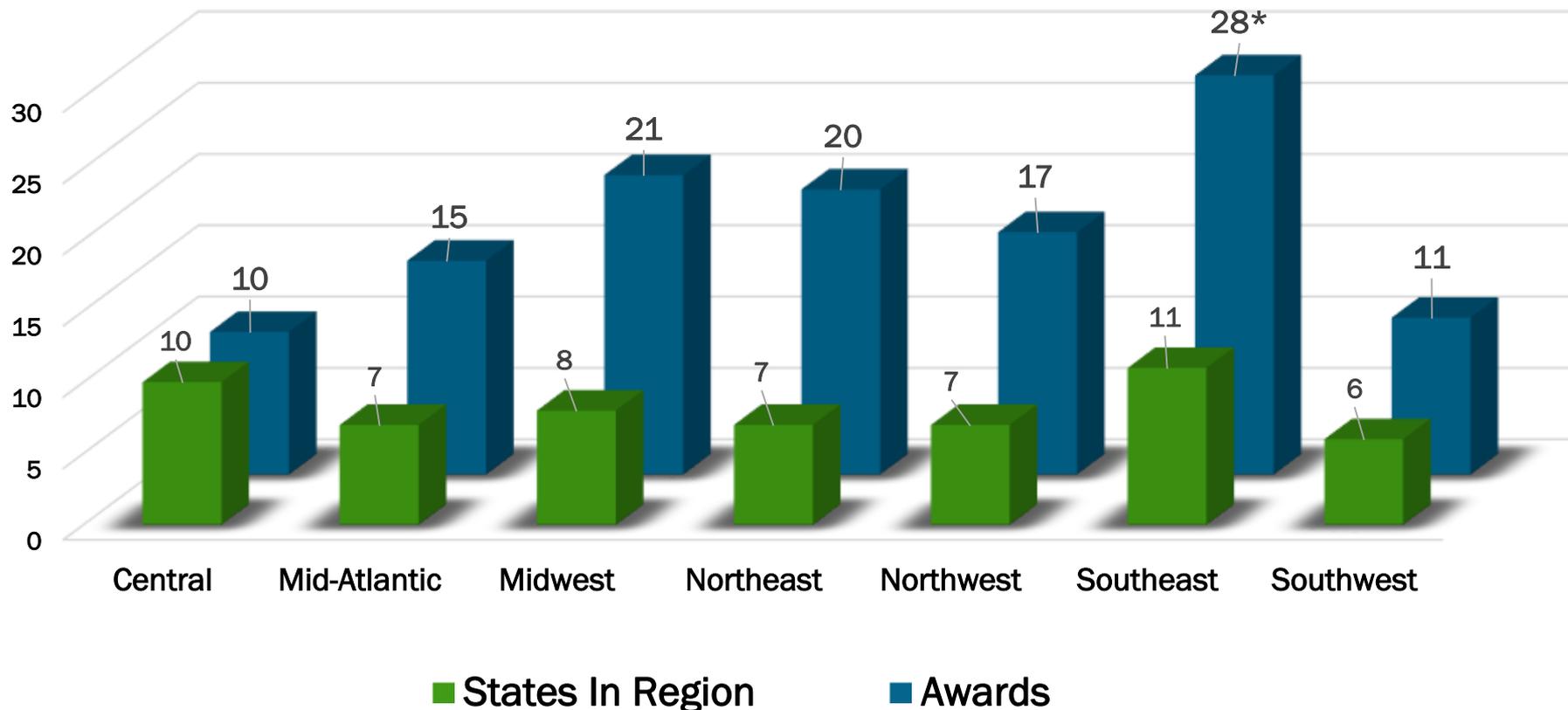
In 2014, Kentucky's Department of Energy Development and Independence (DEDI) launched a stakeholder engagement initiative to explore policy, regulatory, and market barriers that deter industry and facility owners and operators (end-users) from achieving the economic, energy reliability and other benefits of investments in CHP. With support from a State Energy Program (SEP) competitive award from the U.S. Department of Energy (DOE), Kentucky developed an Action Plan to stimulate the market for CHP project development throughout the state.

Download the Combined Heat and Power: Kentucky Implementation Model.



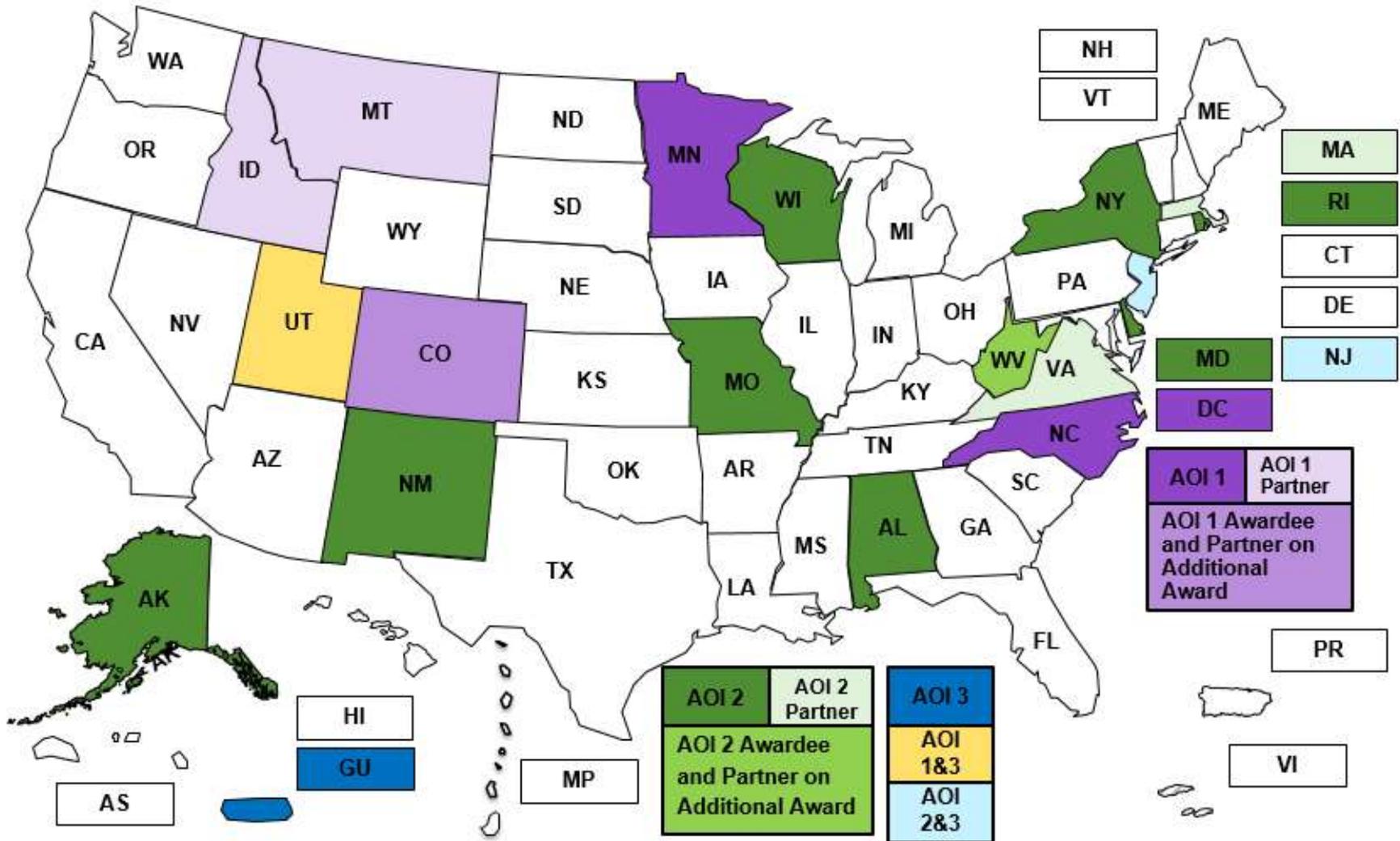
SEP COMPETITIVE AWARDS BY NASEO REGION

2010 – 2017



* 2 awards canceled before completion

SEP FY17 COMPETITIVE AWARD DISTRIBUTION



SEP FY17 COMPETITIVE AWARDS – THE NUMBERS

State Energy Planning

Bolster State/regional energy planning by funding efforts to facilitate stakeholder and interagency discussions and related activities concerning (1) the future direction of the energy sector in the region/State, with emphasis on the electric power sector and natural gas supply and transport, and (2) how EE and RE fit into the vision for the future.

CO, DC, MN, NC, UT

Opportunities for Innovative EE and RE Practices

States identify the most impactful areas they could progress in and develop and implement a plan to advance specific EE and RE policies.

Financing Mechanisms

AL, AK, NJ, NM

Benchmarking and Disclosure

RI, WV

Evaluation, Measurement, and Verification

NY

Partnering with Local Governments

MD, MO, WI

Technical Assistance to Advance SEP Formula Grant Clean Energy Activities

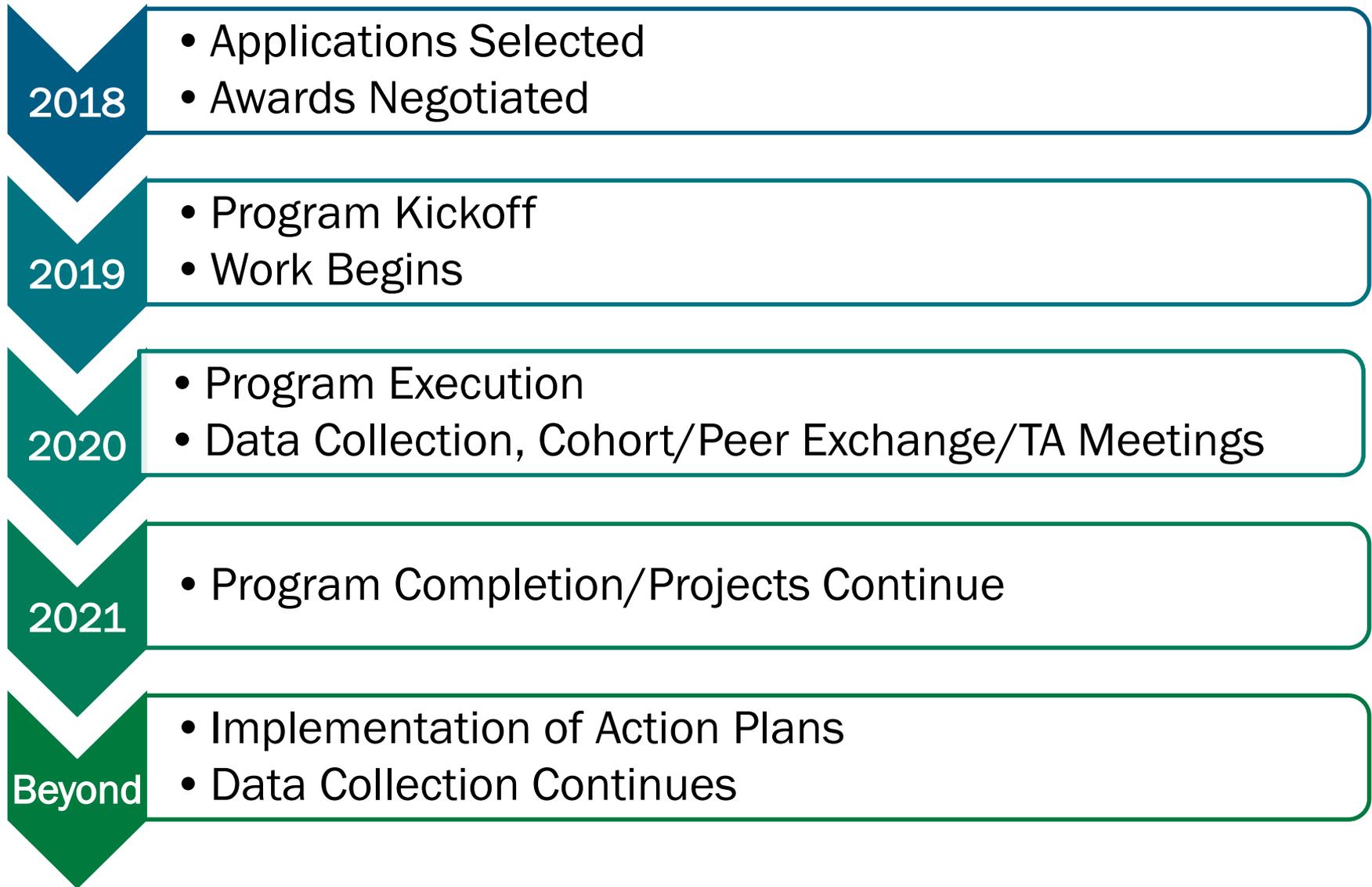
Technical assistance activities that maximize the impact of State Energy Program (SEP) formula grant work related to energy efficiency and/or renewable energy adoption.

GU, NJ, UT

SEP FY17 Competitive Awards

Area	No. of Awards	Funding Levels
1	5	\$1,631,043
2	10	\$3,241,043
3	3	\$275,000
Total	18	\$ 5,147,086

2017 COMPETITIVE AWARD TIMELINE: 2018 & BEYOND



Area One

Colorado, DC, Minnesota, North Carolina, Utah



Project Officers: Virginia Castro, Greg Dierkers, Brandi Martin, Charles Satterfield,

Policy Advisor: Jonah Steinbuck

Technical Experts: Johanna Zetterberg, Monica Neukomm

Colorado Residential Retrofit Energy District

Overview:

DOE Funding: \$300,000
Cost Match: 20%

Partners: Xcel Energy, NREL and the Rocky Mountain Institute

Project Goals:

Create a model for evaluating energy efficiency and renewable energy investments at a community scale (referred to as “energy districts” - interconnected buildings incorporating energy efficiency, distributed energy resource storage and controls) versus individual buildings/residences.

Address the growing challenge of traditional utility energy efficiency to meet cost-effectiveness thresholds due to current low cost of electricity in many areas.

Impact:

Colorado will test new approaches to demand side management, demand response, and renewable energy integration in existing residential buildings that ensure customer affordability.

Data and analysis will inform future state intervention in regulatory, utility demand side management, and generation resource planning.

The project will support market penetration of over 2.3M residential households in Colorado.



Planning an Affordable, Resilient, and Sustainable Grid, North Carolina

Overview:

DOE Funding: \$300,000
Cost Match: 20%

Partners: Duke Energy, University of North Carolina at Charlotte, and North Carolina State University's Solar Energy Center

Project Goals:

Conduct a power-system analysis to assess storm impacts in each of three (3) scenarios, including a baseline, improved, and advanced scenario for deployment of distributed energy resources (DER).

Produce a cost-benefit analysis (CBA) of implementing each of three (3) scenarios.

Convene a comprehensive stakeholder engagement process to share results of the power system and CBA in order to solicit input on how to improve state energy planning processes.

Impact:

The project will inform the development of new metrics (e.g., economic losses experienced by customers from outages due to hurricanes) to help the state and stakeholders (including utilities) better evaluate proposed grid investments within existing state planning processes, including the integrated resource planning process.



A Western State's Strategic Roadmap for the Coordination and Control of Electric Transmission to Advance Affordable, Reliable Energy, Utah

Overview:

DOE Funding: \$431,043
Cost Match: 25%

Partners: Montana, Colorado and Idaho Energy Offices, Energy Strategies, LLC., and the Western Interstate Energy Board.

Project Goals:

Convene Western states to discuss Regional Transmission Organizations (RTOs) or other market expansion options.

Model impacts of Western RTO options for up to three (3) RTO 'footprints' across the Western Interconnection.

Define RTO governance needs. Define the steps necessary in each state to join a Western RTO or alternative.

Create an RTO scorecard to inform future market expansion actions for states via legislative or regulatory action.

Impact:

The project will result in a Roadmap that defines a state-led approach to regional planning. Impacts from a successful regional collaboration could include:

- A 20-year net present value savings of > \$1B;
- Opportunities for implementation of state renewable energy, emissions or other policies; and
- A more resilient and reliable grid with improved transmission capacity.



Energy Grid Optimization, Minnesota

Overview:

DOE Funding: \$300,000
Cost Match: 20%

Partners: Michaels Energy and Environmental Initiative

Project Goals:

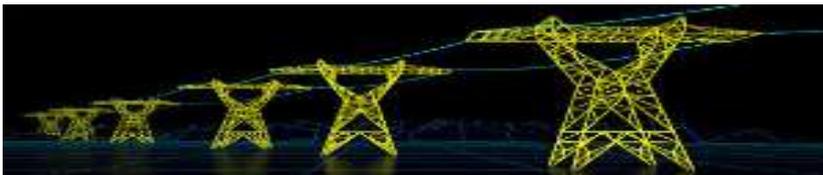
Examine the possible benefits and concerns of using electrification as a tool for grid optimization in Minnesota through research, stakeholder engagement, and planning.

Stakeholder engagement to educate and facilitate discussion on electrification regulation and policy, electrification technologies, grid optimization metrics, and grid modernization issues concerning electrification.

Impact:

Minnesota currently implements a best-in-the-nation portfolio of conservation improvement programs, with participation from both electric and natural gas utilities.

The action plan developed through this proposed project would create a set of data, framework, and results that could be replicated and adapted for other jurisdictions, possibly resulting in widespread grid optimization efforts that could have significant implications for greater energy security and resilience.



Resilient, Innovative and Affordable Electrification, Washington D.C.

Overview:

DOE Funding: \$300,000
Cost Match: 25%

Partners: Siemens, Integral Group, Synapse Energy Economics, Nelson Nygaard, WattTime

Project Goals:

Develop a pathway for achieving 50% energy reduction per capita from the 2006 consumption level by 2032.

Forecast the increase in electricity demand from vehicle electrification and thermal decarbonization.

Identify strategies for load management and peak demand reduction, using cost-effective distributed energy resources to increase resiliency and reduce infrastructure costs.

Create a phasing strategy for building electrification and deployment of charging stations.

Impact:

DC government will be provided with information to determine:

- The efficiency measures necessary to reach the 50% energy reduction goal
- Where electrification is cost-effective
 - which buildings could be electrified and/or decarbonized using geothermal energy or sewer heat
 - ideal locations for electric vehicle charging
- How non-wires solutions (DERs) can be used in load-congested areas



Area Two

Alabama, Alaska, Maryland, Missouri, New Jersey, New Mexico, New York, Rhode Island, West Virginia, Wisconsin



Project Officers: Virginia Castro, Greg Dierkers, Brandi Martin, Charles Satterfield

Policy Advisors: Adam Guzzo, Crystal McDonald, John Agan, Sean Williamson

Technical Experts: Kristen Verclas, Johanna Zetterberg

Financing Advanced Microgrids, New Jersey

Overview:

DOE Funding: \$299,840
Cost Match: 29%

Partners: New Jersey Institute of Technology, Rutgers University, New Jersey Clean Cities Coalition

Project Goals:

Utilize “real-world” data from the 13 NJ Town Center Distributed Energy Resource (TCDER) microgrid feasibility studies as they enter the procurement and financing process.

Develop a local government procurement guide to financing advanced community microgrids.

Guide stakeholders through the process to maximize the economic and resiliency benefits of the microgrid.

Impact:

Jurisdictions across the US will have access to a guide grounded in legal, economic and regulatory realities that improves understand the process of procuring and financing advanced community microgrids.

Advancement of shovel-ready projects that are in need of financial options for construction and economic optimization.



Advancing Commercial PACE in Alaska

Overview:

DOE Funding: \$300,000
Cost Match: 20%

Partners: Alaska Industrial Development and Export Authority, Fairbanks North Star Borough, Municipality of Anchorage, City and Borough of Juneau, Renewable Energy Alaska Project, Alaska Center

Project Goals:

Develop a state-wide Commercial Property Assessed Clean Energy (C-PACE) program to increase energy efficiency and building-level renewable technology deployments within the state.

- Design uniform program parameters and assist local jurisdiction through the statutorily required public ordinance process
- Facilitate the setup of a single, statewide administrator the C-PACE program

Impact:

C-PACE programs established in three local governments in Alaska.

The establishment of a C-PACE statewide administrator to aggregate program management will ensure greater efficiency and cost effectiveness.



Increasing Energy Affordability & Resiliency in Alabama Through C-PACE Financing

Overview:

DOE Funding: \$249,607
Cost Match: 21%

Partners: NASEO, Smart Home America

Project Goals:

Implement a turnkey Commercial Property Accessed Clean Energy (C-PACE) financing program for local governments

Assess resiliency opportunities available through C-PACE

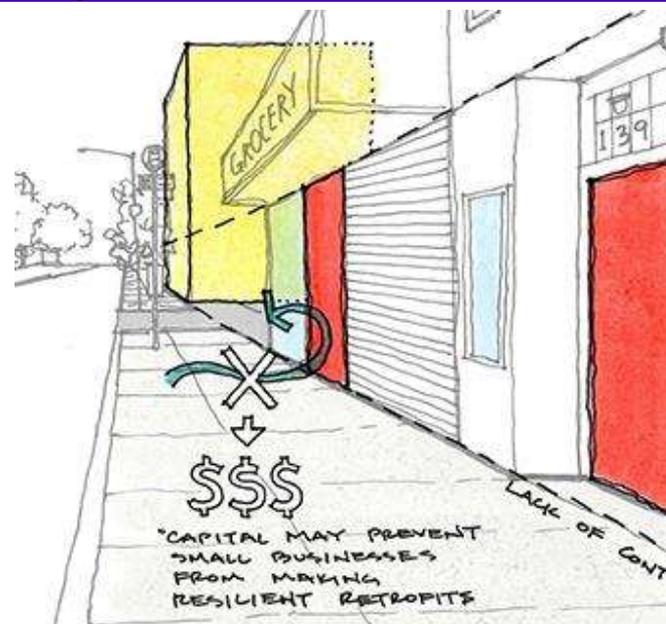
Provide C-PACE education resources, and guidance to local governments

Develop a comprehensive plan for sustainability and outreach

Impact:

Accelerated adoption of C-PACE by local jurisdictions.

Available C-PACE financing to increase energy efficiency, energy resiliency, and structural resiliency.



Partnering with Missouri Communities: Roadmap to Resiliency

Overview:

DOE Funding: \$285,000
Cost Match: 20%

Partners: AECOM, Midwest Energy Efficiency Alliance, Paragon Business Solutions, City of Rolla, City of Stockton, City of St. James, Missouri Public Utilities Alliance, St. James Winery

Project Goals:

Understand the reliability and resilience needs of small and medium-size communities and identify best practices

Develop metrics to measure energy resilience in smaller communities

Create a Resilience Roadmap that enables small and medium sized communities to develop resiliency plans depending on *their* interests, needs, and vulnerabilities

Develop and share case studies for two communities who utilized the Roadmap

Impact:

The Resilience Roadmap will help communities address:

- Critical facilities and infrastructure
- Partner opportunities
- Energy assurance
- Financing
- Energy burden (low-moderate income planning)
- Rate structure review

Small and medium sized communities will be better prepared for and able to adapt to changing conditions and withstand /recover rapidly from disruptions.

One Size Doesn't Fit All



Statewide Assistance for Energy Reliability and Resiliency, (SAFER²) Wisconsin

Overview:

DOE Funding: \$300,000
Cost Match: 20%

Partners: Wisconsin Emergency Management, Focus on Energy, Public Service Commission of Wisconsin, Wisconsin Clean Cities, Wisconsin Energy Institute

Project Goals:

Provide technical assistance to local governments to advance energy resilience planning.

- Create baseline and track progress via pre- and post-project surveys to all county and tribal Emergency Management Directors.
- Host regional educational roundtable events and cross-jurisdictional tabletop exercises.
- Develop an energy assurance website with resources for technical assistance.
- Create a local government Energy Resiliency Handbook.

Impact:

Communities improve plans by using the outage templates and lessons learned in the Energy Resiliency Handbook.

Forming partnerships with local governments and having ongoing collaboration will improve energy emergency resiliency, mitigation and response statewide.



Financial Resiliency Through Energy Efficiency, New Mexico

Overview:

DOE Funding: \$300,000
Cost Match: 20%

Partners: Seven state councils of government in New Mexico

Project Goals:

Establish an EE baseline.

Create a prioritized set of energy initiatives, based on all existing energy efficiency programs and actions active as of 2018.

Engage local communities (i.e., councils of government, counties, cities, etc.) to support implementation of the prioritized list of revenue-positive energy efficiency programs.

Quantify county-level benefits from approved EE actions. The team will use a Systems Dynamics Model (or alternative tool) to prioritize the EE measures (i.e., primary and secondary economic impacts, and sector shifts).

Impacts:

Creation of a new funding mechanism for private and public energy efficiency projects that create net revenue stream.

Potential to achieve 27.6 million MMBTU per year, save \$138M per year and hasten the state's energy transformation.



Advancing Energy Efficiency in Underserved Small, Medium, and Rural Communities, Rhode Island

Overview:

DOE Funding: \$500,000
Cost Match: 68%

Partners: Northeast Energy Efficiency Partnerships, West Virginia Office of Energy, Massachusetts Department of Energy Resources

Project Goals:

Engage 150 Small, Medium Rural (SMR) communities across nine states to reduce energy use by 20% in public facilities and fleet.

Support hundreds of other SMR communities beyond the grant period and provide useful models for other states.



Impact:

The participating states have approximately 6,300 SMR communities. The largest number of these are small and rural with populations less than 75,000

Successfully engaging 150 SMR communities across Rhode Island, Massachusetts, West Virginia, Colorado, Connecticut, New York, New Hampshire, Pennsylvania and Vermont to reduce energy consumption by 20%, could yield total annual municipal energy equivalent to of 3,039 GWh annual energy savings valued at over \$79 million per year.

The MD and VA program to Facilitate LED Street lighting Conversion by Local Governments

Overview:

DOE Funding: \$430,400
Cost Match: 32%

Partners: Virginia Department of Mines, Minerals and Energy; Clean Energy Solutions, Inc.; Metropolitan Washington Council of Governments; Northern Virginia Regional Commission; NASEO

Project Goals:

Educate and enlist local governments to undertake LED streetlighting feasibility studies to determine ownership options for street lighting and economically feasible tariffs. The project will also negotiate with local utilities. Maryland seeks to:

- Facilitate stakeholder engagement
- Assess the conversion potential
- Provide analytical support
- Assist with plan development
- Provide or help secure technical support
- Promote the adoption of energy performance contracting
- Facilitate draft legislation and/or regulations
- Disseminate best practices to other states

Impact:

Five communities implementing conversions

18,000,000 kWh saved annually

\$15,000,000 invested

136 jobs created

48,600 tons of CO₂ emissions avoided

10 Energy Assessments provided



Developing and Deploying a Building Energy Performance, Benchmarking & Transparency Education Initiative in West Virginia

Overview:

DOE Funding: \$300,000
Cost Match: 33%

Partners: WV ASHRAE, WV Department of Education, WV University

Project Goals:

Facilitate the development of a policy and implementation framework for public building benchmarking on ENERGY STAR Portfolio Manager.

Create several unique custom-designed data visualization tools for the public K-12 schools to use as a hands-on teaching resource.

Impact:

A successful, self-sustaining State Benchmarking and Transparency Initiative.

Energy efficiency and benchmarking technical assistance, training and education for facility managers, teachers and students.

Schools focused on energy use and Indoor Air Quality improvement projects that improve their Energy Star rating.

A data visualization tool that will be made available to K-12 schools to use as an interactive teaching and benchmarking tool.

Renewable Thermal Data Clearinghouse, New York

Overview:

DOE Funding: \$276,039
Cost Match: 25%

Partners: Yale University, University of New Hampshire, Oak Ridge National Laboratory (ORNL)

Project Goals:

Enhance the ability of State Energy Offices and other program managers across the region to design, implement, and evaluate policies and programs based on actuarial performance data provided by the RTT database.

Impact:

Data specifications and best practices for renewable heating and cooling performance attribution and methodology for integrating with an open database (oTherm).

Ability to compare of technologies relative to a given objective (e.g., demand response to weather conditions).



Area 3

Guam, New Jersey, Utah



Project Officers: Kelsie Bell, Gordon Gore, Julie Howe

EnergySmart Schools Island Style, Guam

Overview:

DOE Funding: \$75,000
Cost Match: N/A

Partners: Guam Power Authority (GPA)

Project Goals:

Assist facility staff at two to four K-12 schools to develop energy management plans for their respective schools.

An 'EnergySmart Schools Conference' where attendees (administrative and facility staff from K-12 facilities across Guam) will receive hands-on technical assistance to create basic energy management plans for their schools.

Impact:

Comprehensive energy management for two to four K-12 schools informed by in-depth energy audits.

Participating schools will be required to commit funding towards implementation of one or more of the audit recommendations.

Deeper retrofits leveraged by existing relationships between ESCO's and the Guam Power Authority.

Ongoing technical assistance to K-12 facilities across Guam to further develop, refine, and implement energy management plans using SEP-formula funds.

Underserved Communities Electric Vehicle Affordability Program, New Jersey

Overview:

DOE Funding: \$100,000
Cost Match: 20%

Partners: A to-be-named state research university; The New Jersey Department of Environmental Protection (NJDEP) and the NJDEP Office of Environmental Justice; Clean Water Action; CALSTART

Project Goals:

Create a clear path for underserved communities to access clean transportation in the form of PEVs.

Create a feasibility study that will develop, screen and perform a detailed analysis of alternatives that achieve the objective.

Change the view about PEVs among underserved communities from awareness to consideration to preference.

Reduce transportation costs / increase transportation affordability.

Identify barriers to deploying PEVs at multifamily housing.

Impact:

Increased access to economic and employment opportunities.

Improved air quality in underserved communities.

Progress towards New Jersey's Global Warming Response Act requirements.



Utah Energy Wise Communities

Overview:

DOE Funding: \$100,000
Cost Match: N/A

Partners: Utah Clean Energy, City of Ogden, Rocky Mountain Power, Dominion Energy

Project Goals:

Expand on OED's success with individual buildings to an entire community.

Provide technical assistance (TA) to a local community to design a tailored energy efficiency and resiliency plan.

Target low- and moderate-income households' needs to offset the impact of high energy costs where possible.

Build buy-in and capacity for long-term efficiency saving and associated job creation.

The City of Ogden will be the first Utah Energy Wise Community, with the project goal of creating a program model that can support broader replication in OED's support to rural and urban communities.

Impact:

A tested, community-based energy efficiency and resiliency plan that increases energy affordability and resilience in local communities across Utah.

Executive Summary detailing how the TA provided will be integrated into OED's SEP formula grant.

Model summary that explains how to replicate the model beyond Ogden.

Long-term institutional capacity in OED to support local governments in their energy efficiency efforts.



OPEN DISCUSSION & NEXT STEPS



QUESTIONS?

Thank You

Amy.Royden-Bloom@ee.doe.gov



U.S. DEPARTMENT OF
ENERGY

STATE DISCUSSION

STATE DISCUSSION- LESSONS LEARNED

- We encourage states to share lessons learned or highlights from past awards
- State volunteers will share 5 minutes of informal remarks with
 - **Suggestions and tips** to help manage DOE awards
 - Explanation of how beneficial they found DOE's **technical support**
 - How the state best **delegated** and assigned responsibility to **contractors**
 - What the best part of the SEP-C **award process** was
 - Why the state has been **successful** at receiving awards