

# **SEP Updates: Market Titles, Metrics, & Historic Preservation**





**SEP Market Title Project** 



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.



Alabama Oregon

Arkansas Pennsylvania

Kentucky Tennessee

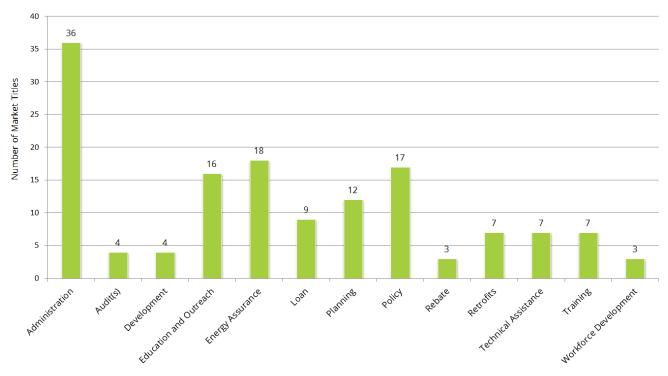
Florida Texas

Idaho Washington

New York Wisconsin

U.S. DOE State Energy Program (SEP) Staff
National Association of State Energy Officials (NASEO)

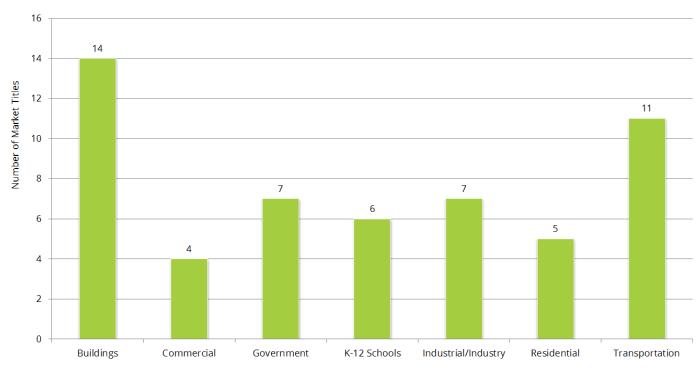




Market Title Subcategories under Program, Project, or Activity Type

**NOTE:** SEOs selected 190 market titles under the "Program, Project, or Activity Type" category in PY 2017, though not all are reflected above. This chart reflects the most popular subcategories under "Program, Project, or Activity Type," totaling 143 of the 190 PY 2017 market titles for this category.

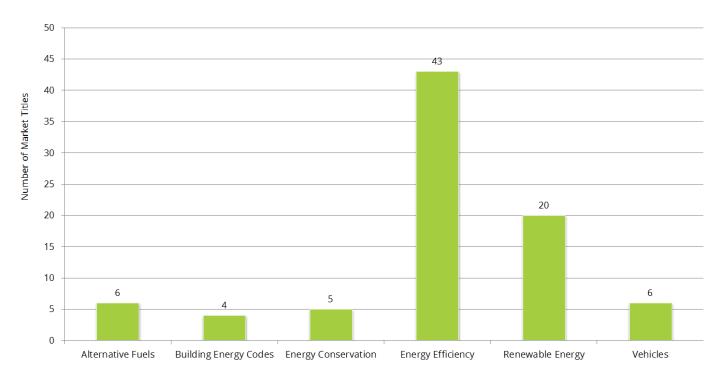




Market Title Subcategories under Sector or Community

**NOTE:** SEOs selected 80 market titles under the "Sector or Community" category in FY 2017, though not all are reflected above. This chart reflects the most popular subcategories under "Sector or Community," totaling 54 of the 80 FY 2017 market titles for this category.





Market Title Subcategories under Technology, Fuel, or Application

**NOTE:** SEOs selected 114 market titles under the "Technology, Fuel, or Application" category in FY 2017, though not all are reflected above. This chart reflects the most popular subcategories under "Technology, Fuel, or Application," totaling 84 of the 114 FY 2017 market titles for this category.



## **Current vs. Proposed PAGE Process**

#### **CURRENT**

#### 1. Market Title

SEO inserts a Market Title.

#### 2. Market Category

SEO selects from a dropdown box with 6 options.

### 3. Activity Checkboxes

SEO selects from 55 "activity" checkboxes. Option to check multiple "activity" checkboxes.

#### 4. Narrative

SEO inserts details regarding eligible activities.

#### 5. Milestones

SEO inserts Milestones - DOE doesn't provide options.

#### 6. Metrics

SEO selects from DOE-provided options – 14 Metric Areas.

#### **PROPOSED**

#### 1. SEO External Name

SEO inserts "external" activity name. DOE does not utilize.

#### 2. SEP Activity (NOTE: 10 CFR 420 & SEP Guidance use term "activities")

SEO selects from a dropdown box with 8 options.

#### 3. Checkboxes

SEO selects from ~20 "sector" checkboxes and ~30 "technology/fuel/application/other program" checkboxes.

#### 4. Narrative

SEO inserts details regarding eligible activities.

#### 5. Milestones

SEO inserts Milestones - DOE doesn't provide options.

#### 6. Metrics

SEO selects from DOE-provided option. Revised 2019 with 11 Metric Areas.

1. SEO External Name: SEO inserts "external" activity name. DOE does not utilize.



SEO External Name: K-12 Energy Education

- 2. SEP Activity: SEO selects from a dropdown box with 8 options:
- Program Management [SEP management, oversight, operations, subrecipient monitoring]
- Policy, Planning, and Program Development
- Energy Security [planning, preparedness, response, rebuilding / recovery, mitigation, risk mgmt., resiliency, cybersecurity]
- Education & Outreach [conferences / forums convened or supported, certain stakeholder engagement, k-12 programs, challenges or other recognition programs, web-based info / clearinghouses]
- Training / Workforce Development [e.g., BOC classes, CEM prep courses, HVAC certifications]
- Technical Assistance [audits, analyses, evaluations, studies, assessments, surveys, monitoring, energy services, etc.]
- Funding [includes financing and incentive programs = loans, loss reserves, bonds, grants, rebates, tax incentives, etc.]
- Economic Development [RD&D related activities (as SEP cannot fund R&D), market development]



SEP Activity: Education & Outreach



1. SEO External Name: SEO inserts "external" activity name. DOE does not utilize.



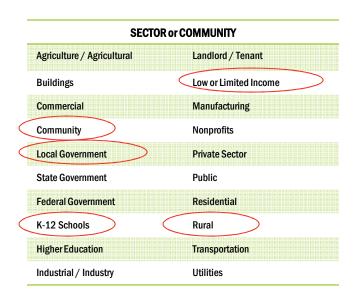
SEO External Name: K-12 Energy Education

- 2. SEP Activity: SEO selects from a dropdown box with 8 options:
- · Program Management [this covers management, oversight, operations, subrecipient monitoring, and administration]
- Policy, Planning, and Program Development
- Energy Security [planning, preparedness, response, rebuilding / recovery, mitigation, risk mgmt., resiliency, cybersecurity]
- **Education & Outreach** [conferences / forums convened or supported, certain stakeholder engagement, k-12 programs, challenges or other recognition programs, web-based info / clearinghouses]
- Training / Workforce Development [BOC classes, CEM prep courses, HVAC certifications]
- Technical Assistance [audits, analyses, evaluations, studies, assessments, surveys, monitoring, energy services, etc.]
- Funding [includes financing and incentive programs = loans, loss reserves, bonds, grants, rebates, tax incentives, etc.]
- Economic Development [RD&D related activities (as SEP cannot fund R&D), market development]

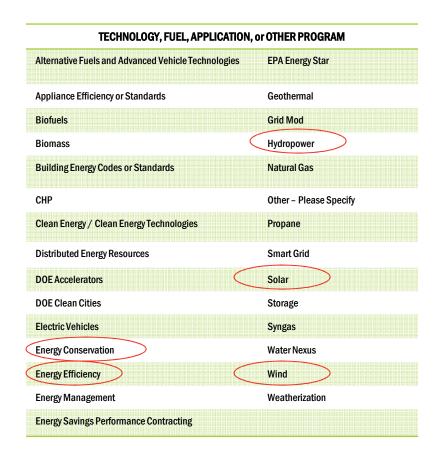


SEP Activity: Education & Outreach





**3. Checkboxes:** SEO selects from 20 "sector" checkboxes and 29 "technology/fuel" checkboxes.





4. Narrative: SEO inserts details regarding eligible activities.



**Narrative:** The Office of Energy Programs has a long history of supporting K-12 Energy Education through professional development and student learning opportunities...

**5. Milestones:** SEO inserts Milestones – DOE doesn't provide options.



Milestone 1. Conduct Energy Education Camps for educators. Number = 3
Milestone 2. Conduct Energy Education Workshops for educators and students. Number = 20
Milestone 3. ...

6. Metrics: SEO selects from DOE-provided option. Revised 2019 with 11 Metric Areas.



**Metric 1.** 10. TRAINING AND EDUCATION/TECHNICAL ASSISTANCE // 10a. Education and outreach conducted // Number of workshops, training, and education sessions held. Estimated number = 35. **Metric 2.** 10. TRAINING AND EDUCATION/TECHNICAL ASSISTANCE // 10a. Education and outreach conducted // Number of people attending workshops, training, and education sessions. Estimated number = 2,000

Metric 3. ...



- Program Management [this covers management, oversight, operations, subrecipient monitoring, and administration]
- Policy, Planning, and Program Development [inclusive of modeling work]
- Energy Security [planning, preparedness, response, rebuilding / recovery, mitigation, risk mgmt., resiliency, cybersecurity]
- Education & Outreach [conferences / forums convened or supported, certain stakeholder engagement, k-12 programs, challenges or other recognition programs, web-based info / clearinghouses]
- Training / Workforce Development [BOC classes, CEM prep courses, HVAC certifications]
- Technical Assistance [audits, analyses, evaluations, studies, assessments, surveys, monitoring, energy services, etc.]
- Funding [includes financing and incentive programs = loans, loss reserves, bonds, grants, rebates, tax incentives, etc.]
- Economic Development [RD&D related activities (as SEP cannot fund R&D), market Development, modeling work]



Agriculture / Agricultural

**Buildings** 

Commercial

Community

Government

Local

State

Federal

K-12 Schools

**Higher Education** 

**Landlord / Tenant** 

**Low / Limited Income** 

Manufacturing

**Multi-state Collaboration** 

**Non-profits** 

**Private Sector** 

**Public** 

Residential

Rural



- Alternative Fuels and Advanced Vehicle Technologies [note, inclusive of biofuel]
- Appliance Efficiency or Standards
- Biofuels
- Biomass
- Building Energy Codes or Standards
- Combined Heat & Power
- Clean Energy / Clean Energy Technologies [e.g., carbon capture, climate action plans]
- Cybersecurity
- Distributed Energy Resources
- U.S. DOE Accelerators
- U.S. DOE Clean Cities
- Electric Vehicles
- Energy Conservation
- Energy Efficiency [e.g., energy waste reduction, lighting retrofits]
- Energy Management



- Energy Savings Performance Contracting
- EPA Energy Star
- Geothermal [note, guidance will distinguish this option as a renewable resource as opposed to heating/cooling]
- Grid Modernization
- Hydropower
- Natural Gas
- Other Please Specify [note, guidance will set parameters inclusive of other "nexus" items such as air quality]
- Propane
- Smart Grid
- Solar
- Storage
- Syngas
- Water Nexus
- Wind
- Weatherization



- Implementation date TBD
- Coordinate with PAGE Team
  - Develop "prototype" for participating states to beta test
  - User interface will look very similar
  - Functionality and connectivity
    - What can be queried?
    - How granular?
- Development of Guidance Document
- Develop and deliver training for SEOs
- Small group of Project Officers and/or Participating SEOs to provide technical assistance during rollout

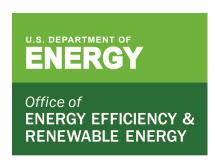


- National Association of State Energy Officials will host an informational webinar prior to the Annual Meeting in September.
- If you are not on the NASEO email listserv and would like to attend the webinar, please provide your email address to Cassie Powers <a href="mailto:cassie.powers@naseo.org">cassie.powers@naseo.org</a>.



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615-741-2994





# New and Improved Process Metrics in the Performance Accountability for Grants in Energy (PAGE) System

Robert Hu



| Metric Area   | Metric   | Metric Item(s) to Report on   |
|---|--|---|
| 1. Building Codes   | 1a. Building code adoption   | Name of new code adopted  |
|   |  | Name of old code replaced   |
| and Standards   |  | Number of new and existing buildings covered by new code            |
|   |  | Compliance rate   |
|   | 2a. Number of buildings/facilities in benchmarking tool, by sector | Number of buildings/facilities added to benchmarking tool           |
| 2. Benchmarking,<br>Sub-metering,<br>and Energy<br>Management |  | Square footage of buildings added to benchmarking tool              |
|   |  | Number of buildings/facilities sub-metered                          |
|   |  | Number of sub-meters added  |
|   |  | Square footage buildings with sub-meters added                      |
|   |  | Number of buildings/facilities added to utility tracking program(s) |
|   |  | Square footage of buildings added to utility tracking program(s)    |
| 3. Energy Audits  | 3a. Energy audits, by sector                                       | Number of investment grade audits (IGAs) performed                  |
|   |  | Number of non-investment grade audits (IGAs) performed              |
|   |  | Square footage of buildings/facilities audited                      |
|   |  | Auditor's projection of energy savings (kWh, therms, MMBTU, gallons |
|   |  | of fuel, gallons of water)  |
|   |  | Average Daily Flow (MGD) of WWTF audited                            |
|   |  | Number of projects started based on audits                          |

| Metric Area  | Metric   | Metric Item(s) to Report on   |
|--------------|--|---|
|              | 4- Duildings naturalisted by sector                | Number of buildings retrofitted                                     |
|              |  | Square footage of buildings retrofitted                             |
|              | 4a. Buildings retrofitted, by sector               | Estimated project savings (KWh, therms, gallons of fuel, gallons of |
|              |  | water, dollars)   |
|              | 4b Energy management systems installed, by sector  | Number of energy management systems installed                       |
|              |  | Square footage of buildings with systems installed                  |
|              | 4c. Street lights retrofitted                      | Number of energy efficient streetlights installed                   |
|              |  | Estimated project savings (KWh)                                     |
|              | 4d. Water conservation retrofits made, by sector   | Number of water conservation retrofits completed                    |
|              |  | Number of water management systems installed                        |
| 4. Retrofits | 4e. Wastewater treatment facilities retrofitted    | Reduction in energy intensity (MMBTU/MG, MMBTU/kg BOD               |
| 1. Netrones  |  | removed)  |
|              | 4f. Manufacturing re-tooling, process improvements | Number of facilities with manufacturing space repurposed for clean  |
|              |  | energy products   |
|              |  | Square footage of manufacturing space repurposed for clean energy   |
|              |  | products  |
|              |  | Number of manufacturing lines retrofitted                           |
|              | 4g. Energy, water saved, by sector                 | Reduction in electricity consumption (MWh/year)                     |
|              |  | Reduction in water consumption (gallons/day)                        |
|              |  | Reduction in fuel oil consumption (gallons/year)                    |
|              |  | Reduction in natural gas consumption (MMcf/year)                    |
|              |  | Dollars saved   |

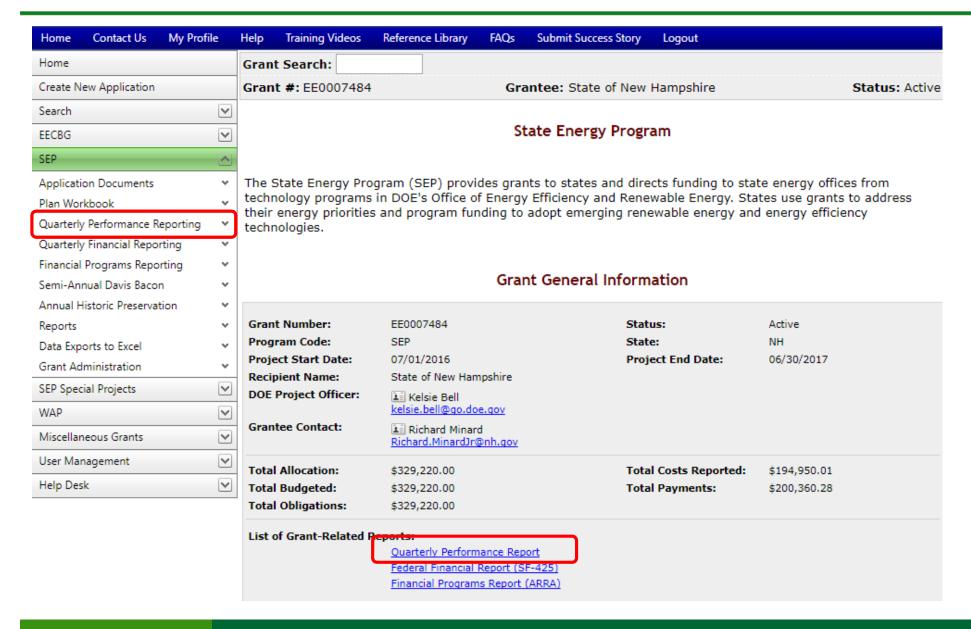
| Metric Area          | Metric   | Metric Item(s) to Report on   |
|----------------------|--|---|
|                      |  | Number of energy plans developed or updated                           |
|                      | En Energy planning activities  | Number of climate action plans developed or updated                   |
|                      | 5a. Energy planning activities                                       | Number of energy baseline analyses/inventories developed or           |
|                      |  | updated   |
|                      | 5b. Renewable energy feasibility studies                             | Number of renewable energy feasibility studies completed or           |
|                      |  | updated   |
|                      |  | Number of transportation efficiency studies completed                 |
|                      | 5c. Transportation studies   | Number of transportation feasibility studies completed                |
|                      | Sc. Transportation studies   | Number of other transportation studies completed                      |
| 5. Planning, Policy, |  | Number of multi-modal studies completed or updated                    |
| and Studies          | Ed Economic nolicy analyses  | Number of job studies completed or updated                            |
|                      | 5d. Economic policy analyses   | Number of supply chain analyses completed or updated                  |
|                      | En Energy constrainty amorganous resilience and                      | Number of energy assurance and/or energy security plans or studies    |
|                      | 5e. Energy security, emergency, resilience, and assurance activities | completed or updated  |
|                      |  | Number of energy resiliency plans or studies completed or updated     |
|                      | 5f. Grid modernization analyses                                      | Number of grid modernization policies completed or updated            |
|                      |  | Number of smart grid technology incentives completed or updated       |
|                      | 5g. Energy storage analyses  | Number of storage studies completed or updated                        |
|                      | 5h. Microgrid analyses   | Number of smart grid technology incentives completed or updated       |
|                      |  | Number of Microgrid site assessments completed or updated             |
|                      | 6a. Residential building labels                                      | Number of residential labels generated                                |
|                      |  | Number of commercial buildings certified (Energy Star, LEED, etc.)    |
| 6. Energy Efficiency | 6b. Building certification or rating programs                        | Square footage of buildings certified or rated                        |
| Certification,       |  | Number of plants certified or rated (ISO 50001, Energy Star, Superior |
| Rating, and          |  | Energy Performance, etc.)   |
| Labeling             |  | Square footage of industrial plants certified or rated                |
|                      | 6c. Policies or ordinances enacted (state, local,                    | Voluntary certification/labeling policies or ordinances enacted       |
|                      | private)   | Mandatory certification/labeling policies or ordinances enacted       |

| Metric Area  | Metric  | Metric Item(s) to Report on                               |
|--------------|---|---|
|              | 7a. Financial incentives provided, by sector and incentive type                     | Monetary value of financial incentives provided           |
|              |   | Total value of investments incentivized                   |
|              | 7b. Existing or new financial programs utilized/created, by sector and program type | Number of customers newly utilizing program               |
|              |   | Private dollars leveraged                                 |
|              |   | Total dollars invested as a result of financial mechanism |
|              |   | Projected energy, cost savings                            |
|              |   | Number of financial programs developed or updated         |
|              | 7c. Loans and Grants by sector  | Number of grants given                                    |
| 7. Financial |   | Total monetary value of grants given                      |
| Instruments  |   | Number of loans given                                     |
|              |   | Total monetary value of loans given                       |
|              |   | Number of loans repaid                                    |
|              |   | Monetary value of loans repaid                            |
|              | 7d. Energy Savings Performance Contracts, by sector                                 | Number of contracts signed                                |
|              |   | Dollar value of contracts signed                          |
|              |   | Projected savings (kWh/year)                              |
|              | 7e. Energy Investment Partnerships/Green<br>Banks                                   | Number of projects funded                                 |
|              |   | Total monetary value of projects funded                   |

| Metric Area                          | Metric   | Metric Item(s) to Report on  |
|--------------------------------------|--|--|
|                                      | 8a. Biofuel systems installed  | Number of biofuel systems installed                                  |
|                                      |  | Total capacity of biofuel systems installed (gallons/year)           |
|                                      | 8b. Biomass systems (non-transport) installed                            | Number of biomass (non-transport) systems installed                  |
|                                      |  | Total capacity of biomass (non-transport) systems installed (kW)     |
|                                      | 8c. Ground source geothermal systems                                     | Number of ground source geothermal systems installed                 |
|                                      | installed  | Total capacity of ground source geothermal systems installed (tons)  |
|                                      | 8d. Hydropower systems installed   | Number of hydropower systems installed                               |
| 8. Renewable                         | du. Hydropower systems mstaned   | Total capacity of hydropower systems installed (kW)                  |
| Energy Market                        | 8e. Solar photovoltaic (PV) electric systems                             | Number of solar PV electric systems installed                        |
| Development                          | installed  | Total capacity of solar PV electric systems installed (kW)           |
| Development                          | 8f. Wind energy systems installed  | Number of wind energy systems installed                              |
|                                      | or. Willia chergy systems instanca                                       | Total capacity of wind energy systems installed (kW)                 |
|                                      |  | Number of solar thermal systems installed                            |
|                                      | 8g. Renewable thermal systems installed                                  | Total capacity of solar thermal systems installed (square feet)      |
|                                      |  | Number of other renewable thermal systems installed                  |
|                                      |  | Total capacity of other renewable thermal systems installed (Btu/hr) |
|                                      | 8h. Other renewable electric systems installed                           | Number of other renewable systems installed                          |
|                                      |  | Total capacity of other renewable systems installed (kW)             |
|                                      | 9a. Alternative fuel vehicles purchased, by fuel type                    | Number of alternative fuel vehicles purchased                        |
|                                      | 9b. Conventional vehicles converted to alternative fuel use by fuel type | Number of vehicles converted to alternative fuel use by fuel type    |
| 9. Transportation Infrastructure and | 9c. New alternative fuel stations emplaced                               | Number of new alternative refueling stations emplaced                |
| Vehicles                             | 9d. Electric Vehicle Infrastructure                                      | Number of charging station site assessments completed (e.g.          |
|                                      |  | expected usage)  |
|                                      |  | Number of charging stations installed                                |
|                                      |  | Number of vehicle to grid pilot/demonstrations                       |
|                                      | 9e. Vehicle miles traveled reduced                                       | Number of vehicle miles traveled reduced annually (VMT/year)         |

| Metric Area             | Metric   | Metric Item(s) to Report on   |
|-------------------------|--|---|
|                         |  | Number of contacts reached via webinars, site visits, fact sheets, or             |
|                         |  | other   |
|                         | 10a. Education and outreach conducted                              | Number of workshops, training, and education sessions held                        |
|                         |  | Number of people attending workshops, training, and education sessions            |
| 40 7                    | 10b. Technical assistance provided                                 | Number of participants  |
| 10. Training and        |  | Number of people trained  |
| Education/              | 10 - Wouldenes development   | Number of professional certifications achieved                                    |
| Technical<br>Assistance | 10c. Workforce development   | Jobs retained (Full Time Equivalent)  |
| Assistance              |  | Jobs created (Full Time Equivalent)   |
|                         | 10d. Building codes and standards training conducted               | Number of people trained  |
|                         | 100 Energy assurance (security emergency                           | Number of training sessions completed   |
|                         | 10e. Energy assurance (security, emergency, resiliency) activities | Number of workshops and tabletop exercises, training, and education sessions held |
|                         | 11a. Administrative  | Administrative (no associated metric)   |
|                         | 11b. Electric production, transmission, and                        | Transmission and distribution energy efficiency improvements –                    |
|                         | distribution   | estimated project KWh savings   |
|                         | 11c. Methane capture, by sector                                    | Estimated methane captured (MMcf, dollars saved)                                  |
|                         | 11d. Energy storage systems  | Number of battery storage systems installed                                       |
|                         |  | Total capacity of battery systems installed (kW)                                  |
| 11. Other               |  | Number of thermal storage systems installed                                       |
|                         |  | Total capacity of thermal storage systems installed (KBtu/hr)                     |
|                         | 11e. Combined heat and power (CHP)                                 | Number of CHP screenings completed  |
|                         |  | Number of feasibility studies completed   |
|                         |  | Number of CHP Systems installed (technology and/or fuel type)                     |
|                         |  | Capacity of CHP systems installed (MW)  |
|                         |  | Thermal output of CHP systems installed   |

## **Quarterly Performance Reports**



## **Quarterly Performance Reports (QPR)**

#### **Quarterly Performance Reporting**

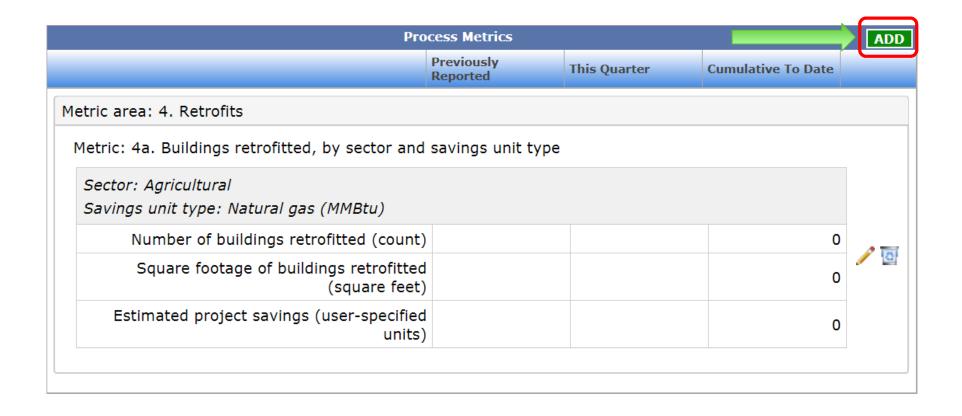
The State Energy Program (SEP) Quarterly Performance Reports are due not later than 30 calendar days after the end of each quarter. The Quarterly Performance Reports contain activity level information on costs, milestones, metrics, and qualitative descriptions that combined provide a comprehensive view of activity progress.

Quarterly Performance Reports are submitted to, and approved by DOE via this page. After a grantee enters the performance information for all activities, simply check the "Ready for Approval" box on each, at which time a button will be displayed to sign and submit the Program Performance Report to DOE. After reviewing the Program Performance Report for each activity, DOE will follow the same process to approve or reject the submitted report.

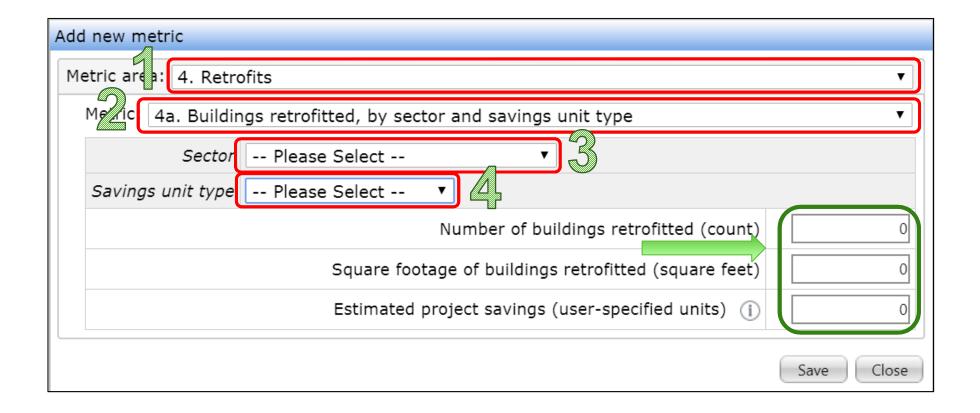


| Project Title<br>(Market)                                     | Costs (DOE)       | Ready For<br>Submission |
|---|-------------------|-------------------------|
|   | Planned: \$68,0:  |                         |
| Building Improvements (Buildings)                             | To Date: \$18,6   | 9                       |
| (buildings)   | Work Complete: 0  | V <sub>0</sub>          |
|   | Planned: \$50     | 0                       |
| Energy Education (Energy Education)                           | To Date: \$50     | 1                       |
| (Energy Education)  | Work Complete: 0  | %                       |
|   | Planned: \$256,70 | 7                       |
| Energy Program Support (Policy, Planning and Energy Security) | To Date: \$175,77 | -                       |
| (1 one), Hamming and Energy Security)                         | Work Complete: 0  |                         |
|   | Planned: \$4,00   | 000                     |
| Transportation (Transportation)                               | To Date:          | 0                       |
|   | Work Complete: 0  | %                       |

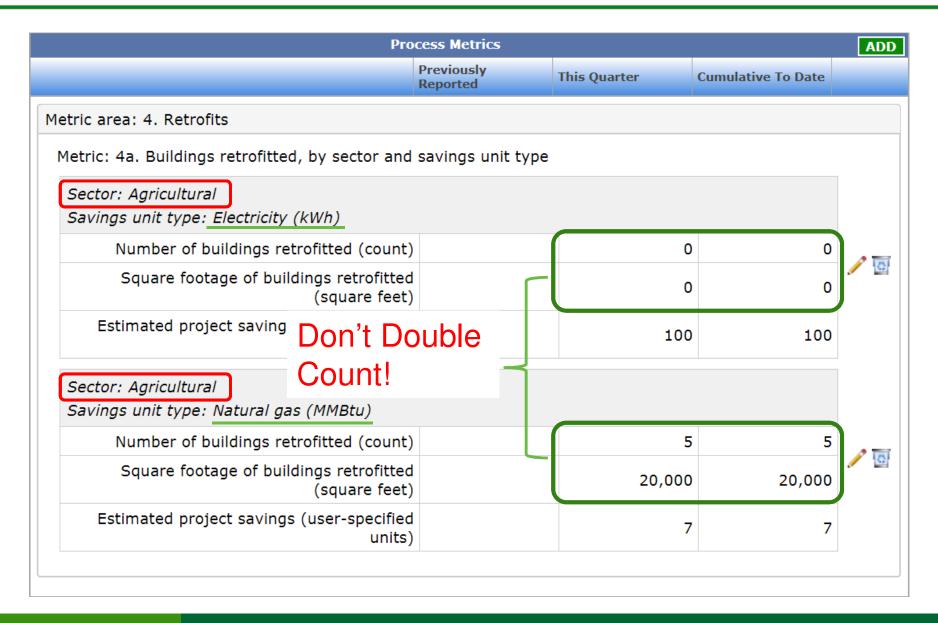
## **QPR- How to Enter New Process Metrics**



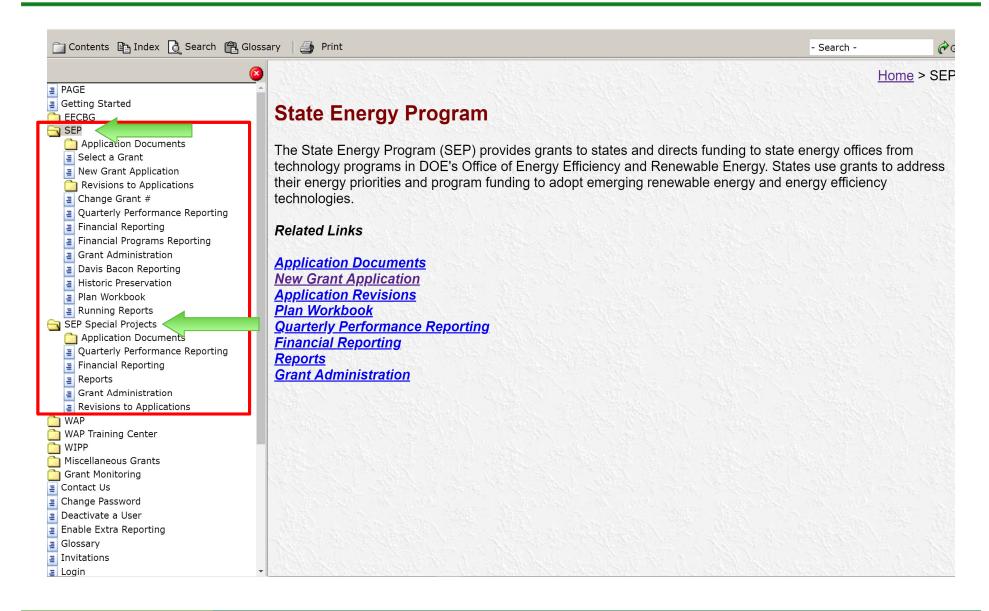
## **How to Add a Process Metric**



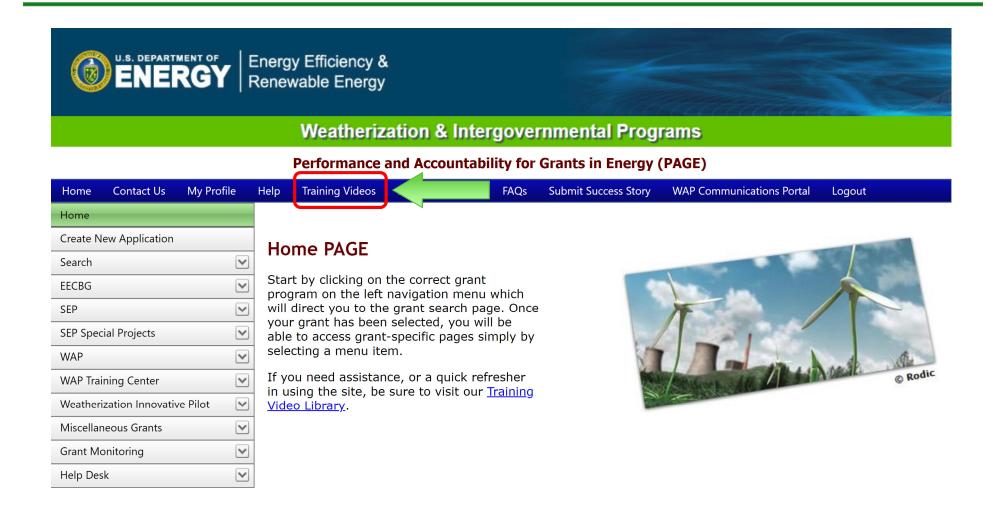
## Multiple Entries for Buildings Retrofitted Metric



## **Help Module – SEP Formula and Competitive**



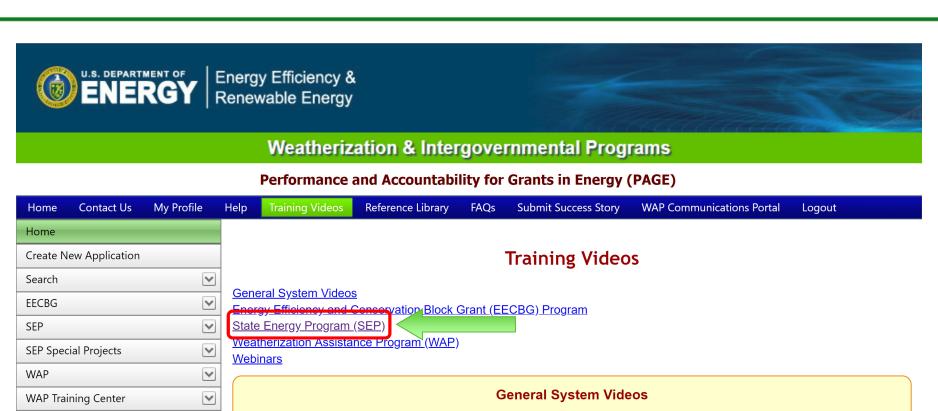
## **Training Video**



Weatherization & Intergovernmental Programs Home | EERE Home | U.S. Department of Energy | Webmaster | Web Site Policies | Security & Privacy | USA.GOV |

Detected browser: Chrome 75.0

## **SEP Training Videos**



#### **Navigating the PAGE Site**

An overview of the PAGE site, including navigation and site features.

#### My Profile

V

Y

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V

How to change your password, security question, and edit your profile.

#### **Sending Invitations**

How to invite a colleague to create a PAGE user account

#### **Running Reports**

Shows how to run reports to view, print, and save

#### **User Management**

An overview of the user management function, including managing user roles and access rights

Weatherization Innovative Pilot

Miscellaneous Grants

**Grant Monitoring** 

Help Desk

## Requesting technical assistance

**Project Officer** 

Contact your PO for TA



Robert Hu

Robert.Hu@ee.doe.gov



**PAGE Hotline** 

Page-Hotline@ee.doe.gov



## Programmatic Agreements for Historic Preservation



## **Programmatic Agreements -Background**

- In 2010, the Department of Energy (DOE), the Advisory Council on Historic
  Preservation (ACHP), and the National Conference of State Historic Preservation
  Officers (NCSHPO) developed a Prototype Programmatic Agreement (PA) to address
  the National Historic Preservation Act (NHPA) Section 106 compliance requirements
  for the Weatherization and Intergovernmental Program Office's (WIPO) State Energy
  Program (SEP), Energy Efficiency Conservation Block Grants (EECBG), and the
  Weatherization Assistance Program (WAP).
- The intent of the Prototype PA was to provide DOE's WAP, SEP, and EECBG Recipients with a streamlined method for complying with DOE's responsibilities under Section 106 of NHPA.
- The Prototype PA is the basis for the individual Programmatic Agreements (PAs) with U.S. states and territories.
- The PAs are beneficial to DOE and Recipients in multiple ways:
  - The PAs include an extensive list of activities that are exempt from the Section 106 review process.
  - DOE relies on the PAs to streamline the NEPA compliance process.
  - The PAs delegate some of DOE's NHPA Section 106 compliance responsibilities to the Recipient.

## **Programmatic Agreements - Current Status**

- Currently, 47 U.S. states and territories have DOEexecuted Programmatic Agreements.
- The intent of the PA is to streamline compliance with the National Historic Preservation Act.
- The PAs are intended to be a tool for states and territories, DOE and State Historic Preservation Officers.
- DOE's goal is for all states and territories to have a DOEexecuted PA.

## **Programmatic Agreements - Next Steps**

- How are the PAs working?
- Annual Reporting DOE's enhanced efforts
- Extending the PAs beyond 2020