ENERGY OFFICE

South Carolina's
Energy Efficiency and Conservation Block Grant (SC EECBG) Competitive Program

Project Think Tank Webinar
Part 3

March 25, 2024

SC EECBG – Project Think Tank Webinar

Welcome and Overview

– Webinar is being recorded

Recording will be available on the SC Energy Office website

– Please use "the chat"

To interact with each other and our panelists

We want to hear from you!

Share comments, ideas, and questions
about your potential projects for SC EECBG.

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Agenda

- Welcome and introductions
- Overview of SC EECBG application guidance and process
- Project ideas
  - US DOE Blueprints
  - Beaufort County
    - Electric Vehicle (EV) infrastructure (including solar-power)
- Questions from Participants
- Wrap-up and closing

SC EECBG Website

March 25, 2024

Getting to know our participants…

- What type of organization do you represent?

Getting to know our participants…

- How familiar are you with the SC EECBG Competitive Program?

The SC Energy Office Energy Efficiency and Conservation Block Grant (SC EECBG) Team

Energy Program Manager

Richelle Tolton

Sr. Energy Specialist

Sam Christmus

Energy Specialist

Kayla Nelums

SC EECBG Program - Round Two

The Energy Office (SCEO) received formula funding, through the US Department of Energy (DOE) EECBG Program, to award subgrants via the SC EECBG Competitive Program!

- SC EECBG plans to fund a variety energy-efficiency, renewable energy, and clean transportation projects in SC
- **Expanded list of eligible entities**
- **Additional resources available** on the SC EECBG website
- Subgrants to range from $50,000 - $75,000 each

Open through April 15, 2024

Entities Eligible for US DOE EECBG Directly
(not the SC program)

In South Carolina:

- 10 counties,
- 14 municipalities, and
- 1 tribal nation

were allocated formula funding directly from US DOE EECBG; therefore, these entities are **INELIGIBLE** for the SC EECBG competitive program.

For questions about US DOE's EECBG program, contact US DOE directly at eecbg@hq.doe.gov.

SC Municipalities with a Federal Allocation
Charleston
Columbia
Florence
Greenville
Goose Creek
Greer
Hilton Head
Mount Pleasant
Myrtle Beach
North Charleston
Rock Hill ✓
Spartanburg
Summerville
Sumter

SC Counties with a Federal Allocation
Aiken
Anderson ✓
Beaufort
Berkeley
Greenville
Horry
Lexington
Richland
Spartanburg
York
Tribal Government with a Federal Allocation
Catawba Indian Nation

Expanded List of Eligible Entities for Round 2 of SC EECBG

Counties (that are ineligible for US DOE EECBG Funding)

Municipalities, cities, towns, townships, parishes, and villages
(that are ineligible for US DOE EECBG Funding)

NEW for Round 2

Local public authorities

School districts

Special Districts

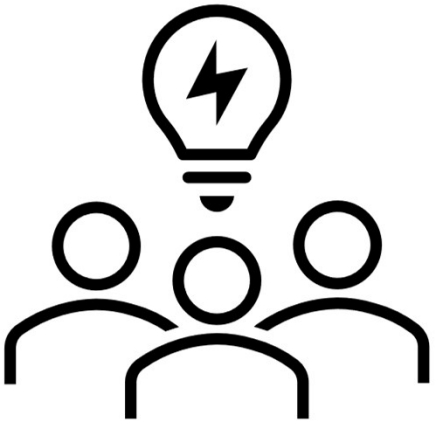
Council of Governments

Any other regional or intrastate governmental entity or instrumentality of a local governments

SC EECBG Application Guidance

Round 2

Considerations before applying



- Reimbursement of Expenses
- Project Permits
- Procurement Process
- **Projects must be completed by May 15, 2026**
- Maintenance of Records & Audit Requirements
- Federal Requirements

Selection Criteria

Savings

Expected energy saving and emission reductions.

Impact

Simple payback period and expected useful life of the project and impact.

Feasibility

Ability to complete the project within the specified timeline and budget.

Location

Justice 40 Initiative and community interest.

Innovation

Utilize new and creative ideas, methods, technologies, and/or partnerships.

Resilience

Compatibility with current or future infrastructure. To support a community's ability to anticipate, absorb, recover, and thrive when presented with environmental change and natural hazards.

NEW for Round 2

Supplemental Information Worksheets

- Guides to inform what types of supplemental information the SCEO needs to perform a technical analysis.
- Not every worksheet is required for each project, some information may be obtained from vendors or consultants.
- Different, but not all, types of potential energy efficiency and conservation project details are represented.
- Submitting applicable technical information with an application expedites the SCEO review process.

Supplemental Information Worksheets

Federal Funding Requirements

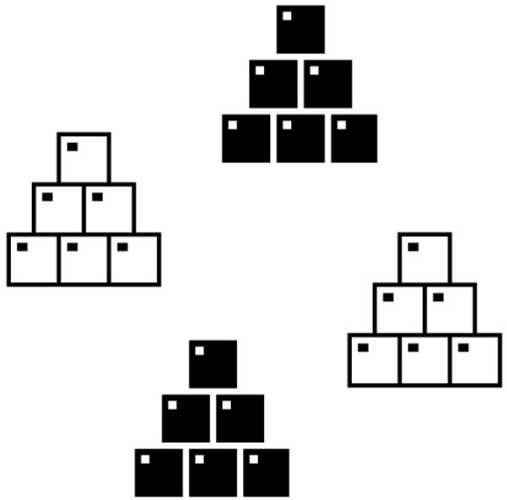
- **Buy American/ Build American (BABA)**
  Federal funding to use American made products
- **Davis-Bacon Act (DBA)**
  All contractors are paid prevailing wage for geographical location
- **Historic Preservation**
  Buildings over 50 years old and in historical districts
- **National Environmental Policy Act (NEPA)**
  Consideration of environmental impacts
- **Justice 40/ Rural Focus**
  40% of overall benefits flow to disadvantaged communities

SC EECBG Application Form

Round 2

Key Components of SC EECBG Application

- Lead Organization (project coordinator)**
- Project Description
  - Project Categories**
  - Project Overview
  - Project Metrics**
  - Project Site Information
- Proposed Project Budget
- Project Timeline
- Applicant's Obligations and Signature



Project Categories

The SC EECBG subgrant program includes eight (8) project categories listed in US DOE's EECBG Program.

US DOE EECBG Eligible Activities and Programs (PDF)

- Strategy Development and Implementation
- Energy Efficiency Retrofit Grants for Government Agencies
- Conservation of Transportation Energy
- Building Codes and Inspection Services
- Reduction, Capture, and Use of Landfill Gases
- Replacement of Traffic Signals and Street Lighting
- On-site Renewable Energy on or In a Government Building
- Programs for Financing, Purchasing, and Installing Energy Efficiency, Renewable Energy, and Zero-emission Transportation (and associated infrastructure) Measures and Capital Investments, Projects, and Programs for Leveraging Public and Private Sector Funds

Project Metrics Summary

D. Project Metrics Summary:

Estimate the total benefits from the implementation of the proposed project(s) and provide detail to support those calculations for the applicable metrics in the table below. *For clarification, metric descriptions are provided below the following table.*

Additionally, please refer to the Supplemental Information Worksheet for project-specific details to submit. This information is necessary for the SCEO to properly evaluate the proposed project(s).

SC EECBG Funds Requested	$
Total Project(s) Costs	$
Total Projected Annual Energy Savings (if applicable) *[Note: 1 kWh = 3,412 Btu, 1 Therm = 100,000 Btu, 1 Gal. of Gasoline = 114,000 Btu]*	*Btu*
Total Projected Annual Cost Savings (if applicable)	$
Projected Simple Payback Period (if applicable)	*years*
Expected Useful Life	*years*

Environmental Benefits:

EPA's Greenhouse Gas Equivalencies Calculator may assist with calculating emissions reductions to support an application.

Greenhouse Gas Equivalencies Calculator

SC EECBG Project Ideas

US DOE EECBG Blueprints

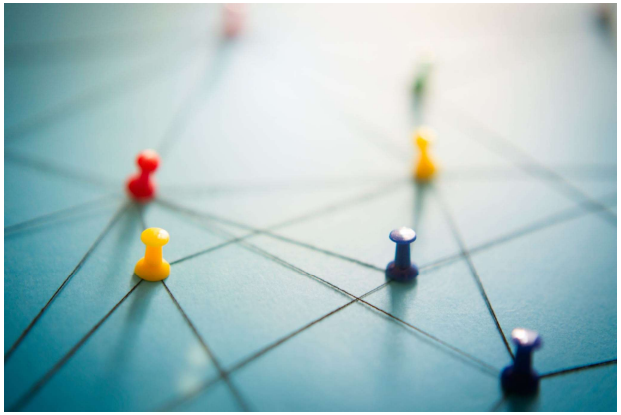
- Provide ideas for energy planning, efficient buildings, renewables, electric transportation, finance, and workforce projects.
- Model projects and programs designed to help local and tribal governments achieve high impact results with limited grant dollars.
- Step-by-step guides illustrate project and program ideas.
- Provide best practices for equity and energy efficiency and conservation impact.
- Highlight the most relevant tools and resources.

US DOE EECBG Blueprints

SC EECBG Webpage

- Links to more…
  - US DOE Eligible Categories
  - US DOE Blueprints
  - Electric Vehicles (EV) for Public Entities

- SC EECBG Webinar Recordings
  - Project Think Tank
    - Part 1
    - Part 2



Beaufort County

Speaker

Eric Larson

Proposed project

Installation of a stand-alone deployable solar powered unit equipped with two level 2 Electric Vehicle (EV) chargers and two USB outlets for other electric devices.

US DOE Award Allocation

$80,150

Project Goals and Costs

- Increase EV fleet to be 80% of county's fleet by 2050
- Provide EV chargers for **fleet** and **public use** as public-facing service centers (Libraries, Admin., Court, Parks, etc.)
- Total program cost is $297,588
  - $80,150 through US DOE grant
  - General Fund is supplementing the grant
- Typical electric-powered charging station (each), installed, $7,048
- Solar powered mobile unit, delivered and setup, $66,687

EV equipment planned for project

24 EV Charging Sites across the County

- 4 sites have Solar generated-power chargers (Beam EV Arc)
- 20 traditional power sites – (Electron EV10 or Wallbox)
  - 10 sites are potential for public use with pay system
  - 6 sites complete to date
  - Wallbox brand are wall mounted, inexpensive, but only for fleet charging; no pay system capability. Used in secure fleet storage areas only.

Operation and Maintenance Plan

- Use in-house electricians.
- Use a preventative maintenance schedule for routine maintenance.
- Have service agreements with the equipment vendor for troubleshooting, hardware and firmware updates, pay system operations.
- Have focused on deployment.
- No plan developed, yet, for replacement schedule.

Portability/Disaster Resilience

- Beam EV Arc is a system that can be folded up and moved.
  - 1 existing unit on site at public works now for daily use and can be deployed.
  - The other 3 units to be purchased will be located at community use centers (Libraries and Parks).
  - Can be repurposed at County buildings in the event of a disaster.
- 6 of the sites have generator back up that could power the chargers.
- 1 of the sites has a solar array on the roof that powers the building and the wall mounted EV charger.

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What's Next

Time for feedback…

- What project ideas do you currently have in mind?

Time for feedback…

What questions do you still have about the SC EECBG Competitive Program – Round 2?

Additional Resources

- Visit our website for more information on SC EECBG and our FAQ Document (updated periodically).
  - Questions from this webinar (Part 3) to be addressed.

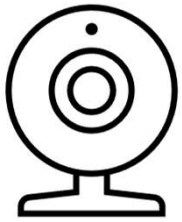
- Email questions to energycs@ors.sc.gov.

SC Energy Office EECBG Webpage

Webinar Recordings

- SC EECBG Webinar Project Think Tank - Parts 1 & 2
  - Available on the SCEO EECBG webpage
    - Agenda
    - Presentation
    - Recording

- This webinar will be on the Energy Office website soon



What's Next?

Please submit your **COMPLETE** application via email to energycs@ors.sc.gov.

Deadline for applications:

Monday, April 15, 2024

ENERGY.SC.GOV

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