

# Agenda

- Welcome and Introductions
- South Carolina's competitive EECBG Program Overview
- Panelists Roundtable of Project Ideas
  - City of Spartanburg
    - Electric Vehicles (EV) infrastructure
  - City of Rock Hill
    - Uplifting HID streetlights to LED
  - Richland County
    - Building energy efficiency measures and renewable energy back-up in retrofitted Emergency Response Center
- Questions and Answers (Q&A) with Participants and Panelists
- Closing



Scan here for more information about South Carolina's Competitive EECBG

October 24, 2023

***South Carolina's***  
**Energy Efficiency and Conservation**  
**Block Grant (SC EECBG)**  
**\*Project Think Tank Webinar\***  
**Part 1**

October 24, 2023

# 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.

# 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

## Mentimeter Instructions

---



Scan the QR code to access  
our menti polls

or

Join at [menti.com](https://menti.com)

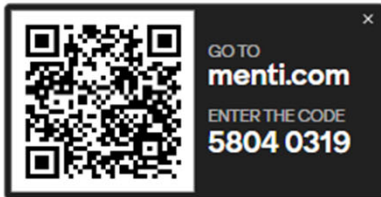
Use code: 5804 0319

Join at [menti.com](https://menti.com) use code 5804 0319



# What type of organization do you represent?

Waiting for responses ...

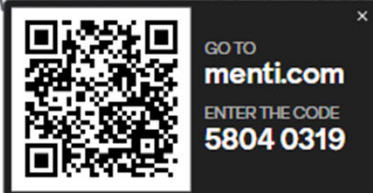


Join at [menti.com](https://menti.com) use code 5804 0319

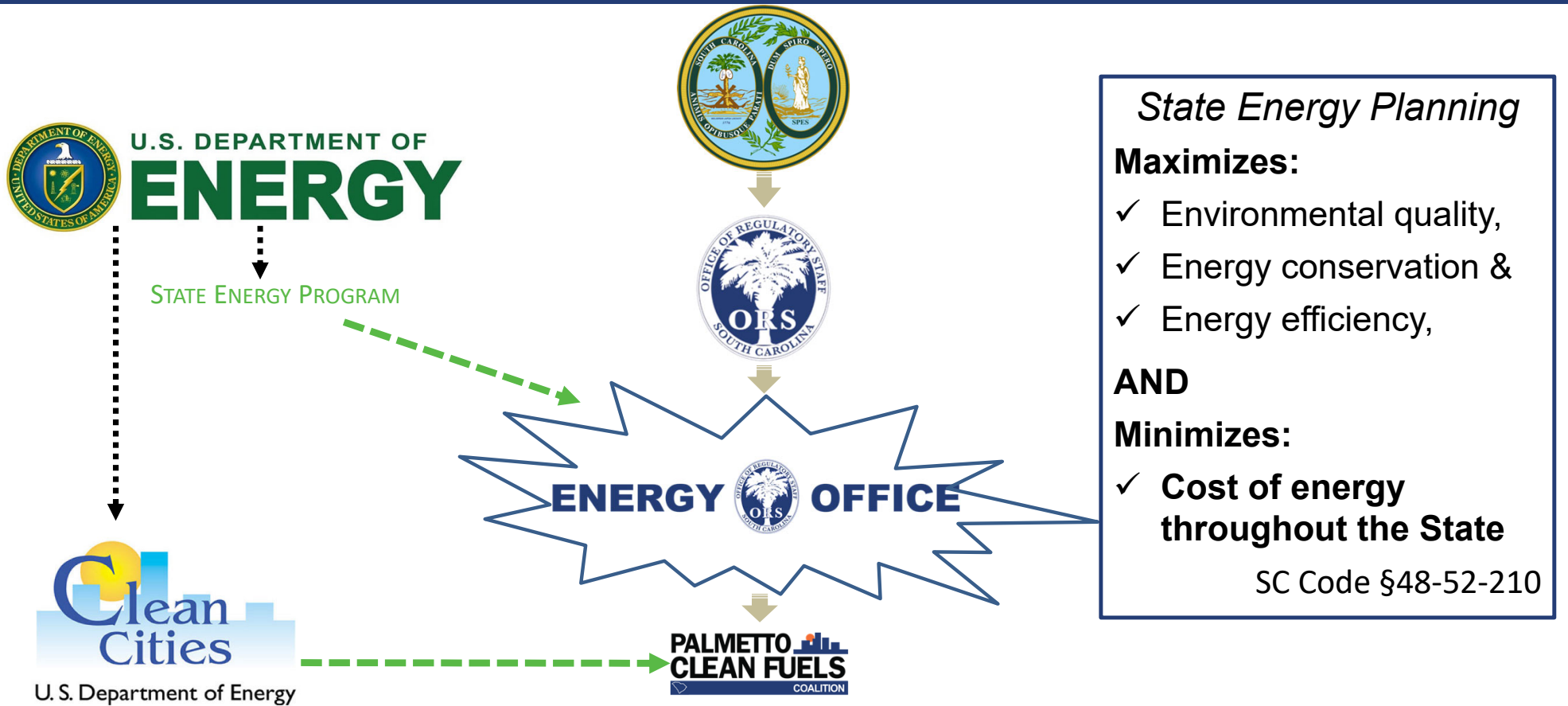
 Mentimeter

# What project ideas do you currently have in mind?

Waiting for responses...

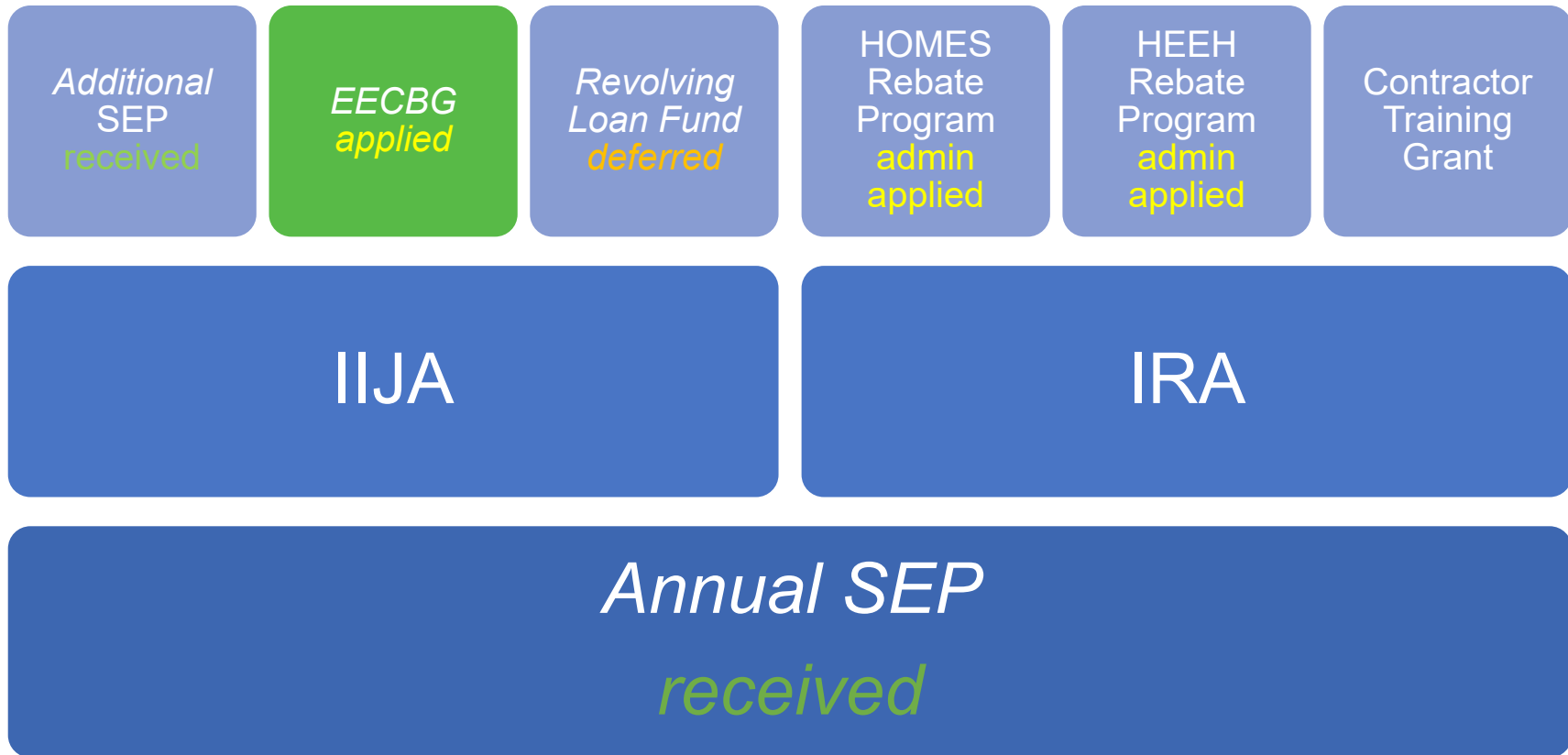


# Our Structure





# Federal Funding Received / On the Horizon



**COMING SOON**

## SC Competitive EECBG

The Energy Office **anticipates** receiving formula funding through U.S. Department of Energy (DOE) EECBG Program to award subgrants via the SC competitive EECBG program.

- The SC program plans to fund many different energy-efficiency, renewable energy, and clean transportation projects in SC for local units of government.
- Plan to award between 20 - 30 competitive EECBG subgrants for SC.
- The subgrants will range from \$50,000 - \$75,000 each.

## Who may apply for SC's competitive EECBG?

**36 counties** and over **250 municipalities** in South Carolina are **ELIGIBLE** to apply for the SC competitive EECBG program.

*\*Municipalities located within a county, receiving formula EECBG funds directly from U.S. DOE, may still be eligible to apply for the SC competitive EECBG program.*

# Who is eligible to apply for US DOE EECBG program (not the SC program)?

## In South Carolina:

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

have been allocated formula funding directly from the U.S. DOE; therefore, they are **INELIGIBLE** for the South Carolina competitive EECBG program.

### SC Municipalities with a Federal Allocation

Charleston  
Columbia  
Florence  
Goose Creek  
Greer  
Hilton Head  
Mount Pleasant  
Myrtle Beach  
North Charleston  
Rock Hill  
Spartanburg  
Summerville  
Sumter

### SC Counties with a Federal Allocation

Aiken  
Anderson  
Berkeley  
Greenville  
Horry  
Lexington  
Richland  
Spartanburg  
York

### Tribal Government with a Federal Allocation

Catawba Indian Nation

# Project Categories

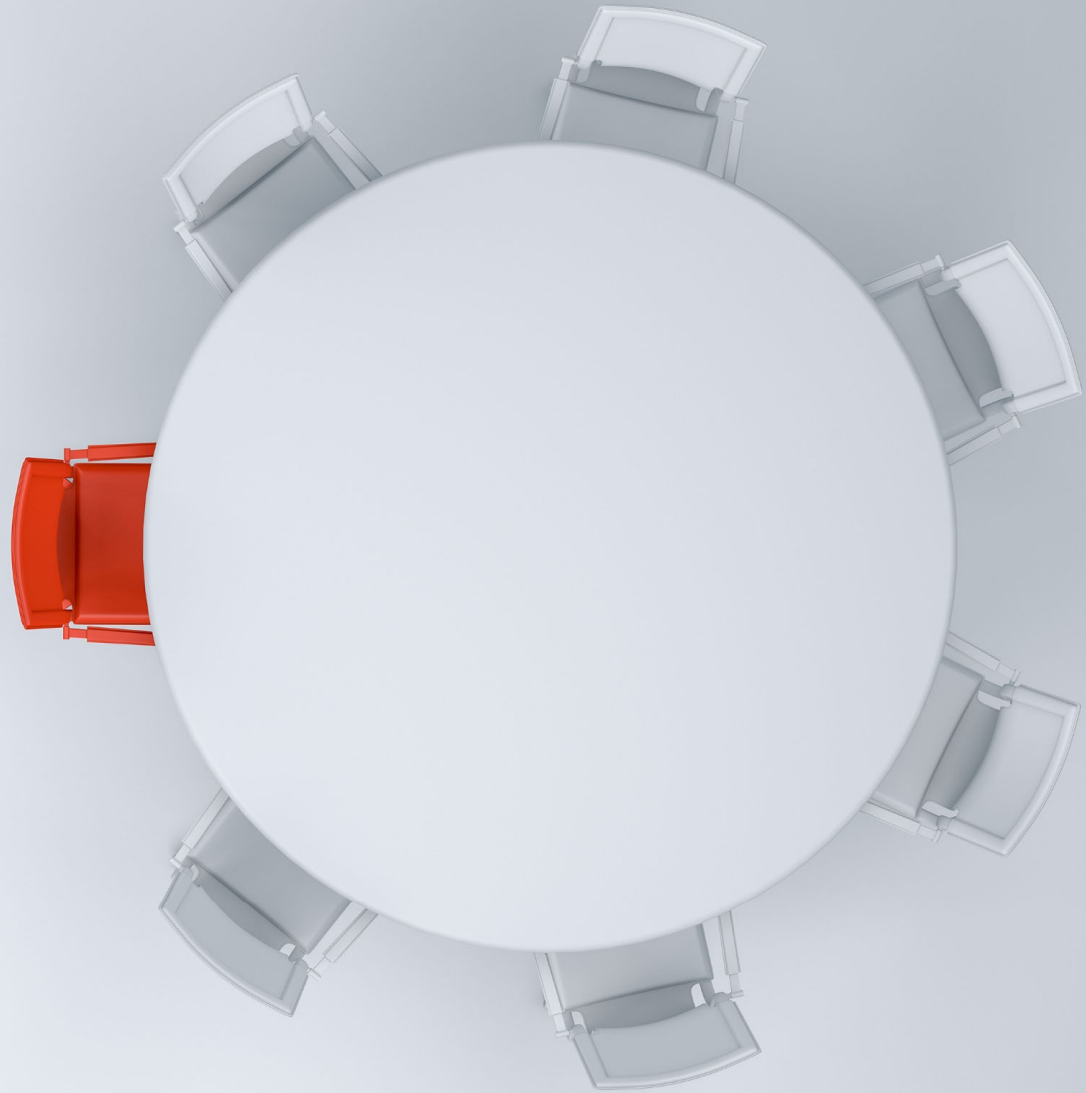
## SC EECBG subgrants to fund activities within 8 project categories

- 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

# Today's Panelists

- City of Spartanburg
- City of Rock Hill
- Richland County

NOTE: All panelists are US DOE formula funding eligible & not for the SC competitive program.



# City of Spartanburg - EV Infrastructure

- Early adopter of chargers
  - Operations/Maintenance
  - Vendors
- Economic development
  - Data collection – visitors/usage
  - Industry partners
  - Hub City
- Equitable and inclusive safe
- Regional EV task force
  - GIS



US DOE  
Award  
Allocation  
\$76,580



US DOE  
Award  
Allocation  
\$133,080

# City of Rock Hill Upfitting HID Streetlights to LED







- ✓ The City of Rock Hill has an initiative to replace all the city-owned HID (Halogen) fixtures (19,000) with a LED equivalent fixture. Replaced roughly 58% of the fixtures YTD.
- ✓ LED fixtures are rated for 100,000 hours or 23 years, much longer than HIS bulbs (10,000 – 25,000 hours).
- ✓ LED lights require no maintenance versus traditional HID fixtures (bulbs, capacitors, ballast, ignitor, overheated wiring, etc.).
- ✓ Replace HID streetlights that consume 285W of Energy with LED equivalent lights that output 105W (63% decrease).
- ✓ The City went from 2- full-time service trucks to one (1) due to the new LED lights we have installed, which help reduce CO2 emissions.
- ✓ LED fixtures have a 10-year warranty from the manufacturer, protecting the grant's capital investment.



- ✓ LED fixture reduces the system electric demand off-hours, freeing up capability on the network for electric vehicles.
- ✓ LED lights have directional abilities that control where light is distributed on the ground, which reduces waste by avoiding light spread in unnecessary directions, allowing for fewer fixtures as a result of improved light uniformity and better visibility to vehicular and pedestrian traffic.

# Payback

## Pay Back through Energy Savings

- Material Cost (Photocontrol, Fixture): \$388.00
- Labor (City Crews ): \$0.00
- Power Saving 180 Watts per Fixture
- Operating Hours Per Year: 12 Hours per day x 365 =4,380
- Cost of Operations: .05 cents per kw \* 4,380 x.18 = \$39.42
- Return on Investment by energy savings: 9.84 years

## Pay Back through Energy Savings and Labor

- Service Crew Cost per hour: \$280
- Service: Assumed repair or service (rebulb) one time every four years.
- Maintain Cost per year:  $\$280/4 = \$70$  (will increase over time as the cost of labor, fuel, and service vehicle gets more expensive)
- Payback less than 4 years.



# Richland County

## Speaker

Sarah Harris

## Proposed Project

Assistance in building energy efficiency and renewable energy back-up in retrofitted Emergency Response Center

## US DOE Award Allocation

\$278,170

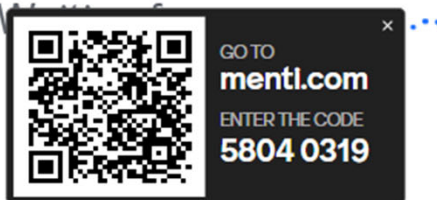


# Time for Questions

Join at [menti.com](https://menti.com) use code 5804 0319

 Mentimeter

# What type of EECBG Project are you interested in learning more about?



# What's Next?

- Grant Application Guidance coming soon!
- To receive updates such as when the grant program application period opens, please email [energycs@ors.sc.gov](mailto:energycs@ors.sc.gov) to be added to our email list.
- Look out for Part 2 of our webinar series after the start of the application period.



Scan here visit our website for more information on SC's EECBG program and project blueprints.

**Email our team at [energycs@ors.sc.gov](mailto:energycs@ors.sc.gov) with questions regarding the SC EECBG program.**



**Energy Program Manager**

**Richelle Tolton**



**Sr. Energy Specialist**

**Sam Christmus**



**Energy Specialist**

**Kayla Nelums**



**ENERGY.SC.GOV**

