

# Home Energy Labeling Working Group

July 27, 2022

# Today's Agenda

1. Setting the Framework
2. Key Questions and Considerations
3. Working Group Feedback
4. Brainstorm Label Design Ideas
5. Standing Meeting Schedule

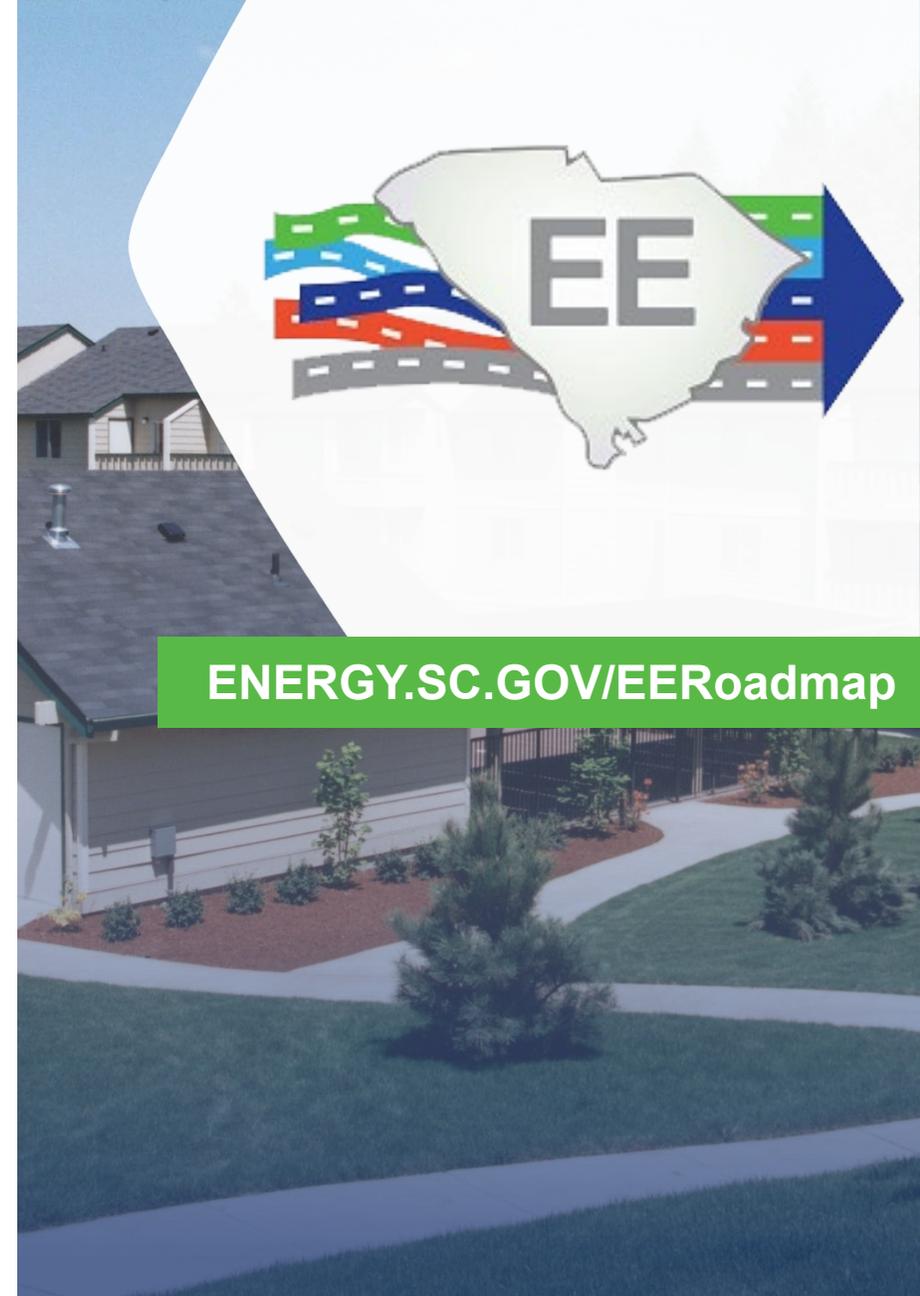
# Meeting Format

- 1 Hour WG Meeting
- Each WG Meeting to Focus on Particular Question
- WG Input to be Collected with Feedback at Future Meetings
- Jam Board Available for Comments/Ideas

# Energy Efficiency Roadmap Initiative

## Overview

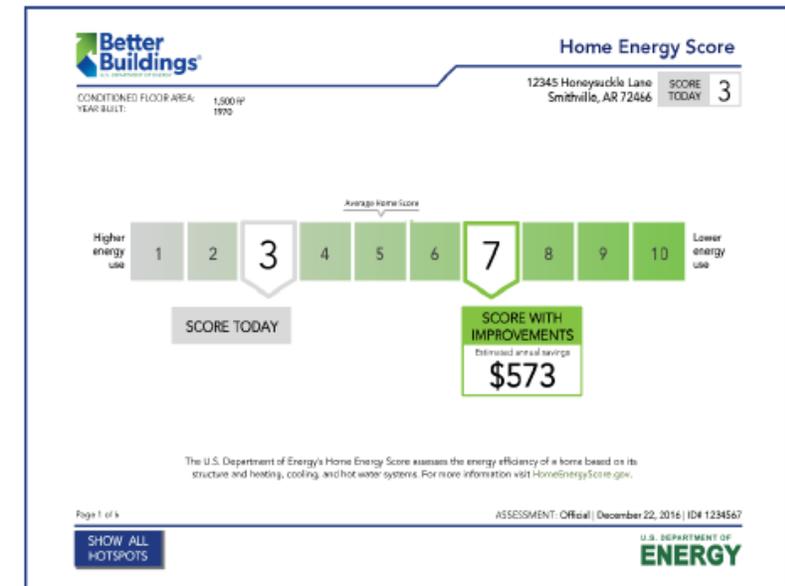
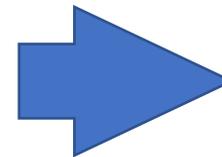
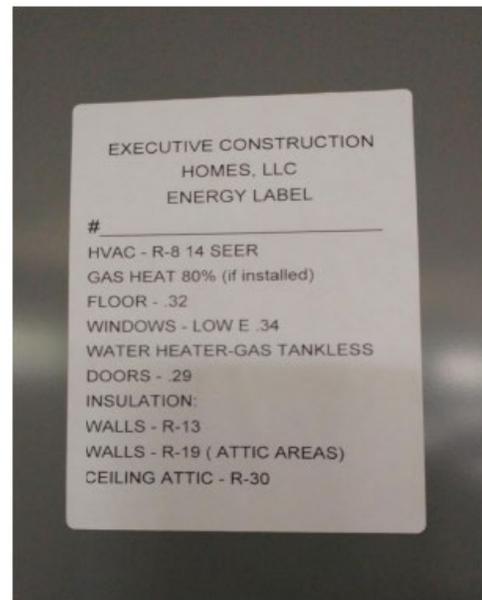
- Assembled EE Advisory Group
- Six Working Groups
- Revisit Energy Plan from 2016
- Virtual versus in-person
- 20 recommendations
- Final Report – 2021



[ENERGY.SC.GOV/EERoadmap](https://ENERGY.SC.GOV/EERoadmap)

# Label, Sticker Disclosures

- Simple, uniform energy labeling for renters and purchasers
- For information on energy performance
- Voluntary

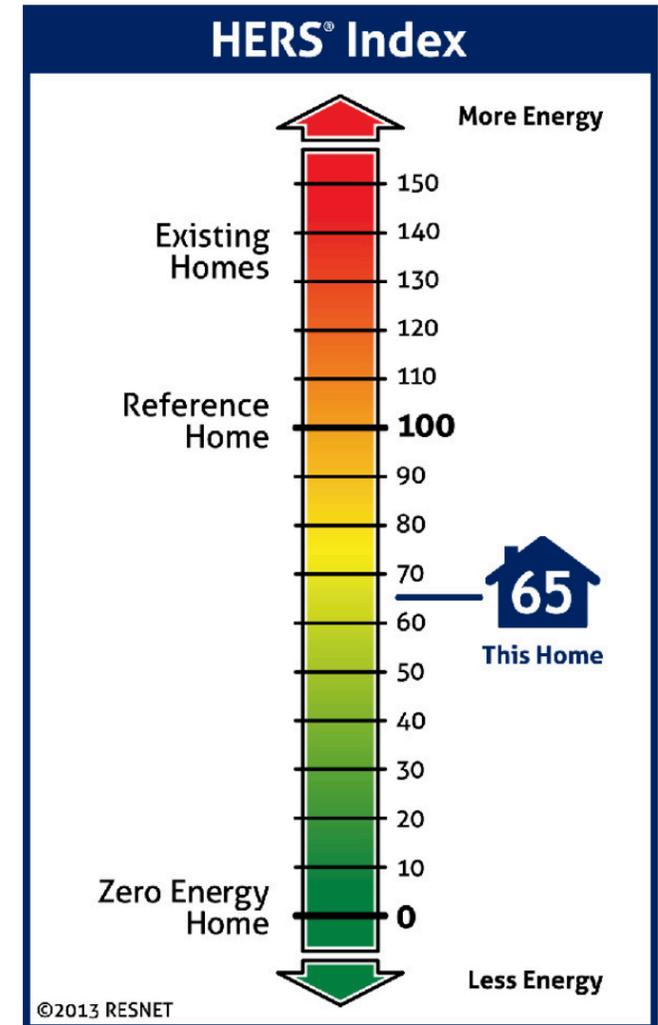


# Why An Energy Label?

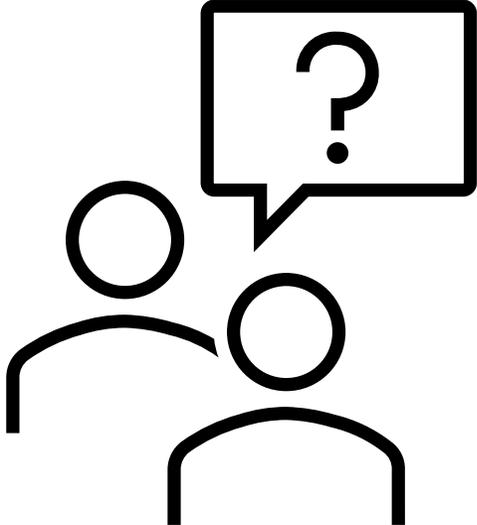
- Home performance
- Quality of energy systems
- Improvement recommendations
- Easy to understand metric



# Energy Label Examples



# Questions?



# Energy Label Working Group Key Questions

- Energy Label Design
  - What information is on the label
  - How is the Information presented
  - What other rating or labeling programs are in use in South Carolina
- Administration
  - Who creates the label
  - Who manages the assessor/rater
- Training & Education Needs
  - Who needs training
  - What is critical to use/understand the label
- Pilot Program
  - Possible locations / participants

# Working Group Input

- Additional key questions to consider?

# Energy Label Design

- What information is on the label
- How is the Information presented
- What other rating or labeling programs are used in South Carolina

# State Label Examples



**OREGON DEPARTMENT OF ENERGY**

U.S. DEPARTMENT OF ENERGY

**THIS HOME'S SCORE** 6

THIS HOME'S ESTIMATED ENERGY COSTS

\$1,257

PER YEAR

**HOME PROFILE**

**LOCATION:**  
4359 SE Something Ave  
Salem, OR 97304

**YEAR BUILT:**  
1925

**HEATED FLOOR AREA:**  
2,348 sq. ft.

**NUMBER OF BEDROOMS:**  
3

**ASSESSMENT**

**ASSESSMENT DATE:**  
04/29/2019

**SCORE EXPIRATION DATE:**  
04/29/2027

**ASSESSOR:**  
John Smith  
Medford Home Performance

**PHONE:**  
503-555-1212

**EMAIL:**  
smith@medfordhp.com

**LICENSE #:**  
1234567890

*Flip over to learn how to improve this score and use less energy!*

**Better Buildings** Home Energy Score



Official Assessment | ID# 233283

The Home Energy Score is a national rating system developed by the U.S. Department of Energy. The Score reflects the average energy efficiency of a home based upon the home's structure and heating, cooling, and hot water systems. The average score is a 5. Learn more at HomeEnergyScore.gov.

**HOW MUCH ENERGY IS THIS HOME LIKELY TO USE?**

Electric:	8,275 kWh/yr (\$0.11/kWh)	\$943
Natural Gas:	677 therms/yr (\$1.09/therm)	\$738
Other:		\$0
Renewable Generation:		(\$424)
<b>TOTAL ENERGY COSTS PER YEAR</b>		<b>\$1,257</b>

**How much renewable energy does this home generate?**  
3,719 kWh/yr

**THIS HOME'S CARBON FOOTPRINT:**



Estimated average carbon footprint for a similar sized home: 3.8 tons of CO<sub>2</sub> equivalent emissions per year.

- Actual energy use and costs may vary based on occupant behavior and other factors.
- Estimated energy costs were calculated based on current utility prices in your area.
- Carbon footprint is based only on estimated home energy use. Carbon emissions are estimated based on utility and fuel-specific emissions factors provided by the OR Department of Energy.
- This report is valid for eight years from the assessment date. A free reprint of the report is available from [us.greenbuildingregistry.com](http://us.greenbuildingregistry.com) with updated utility and carbon information annually.
- This report meets Oregon's Home Energy Performance Score Standard.

MISSOURI HOME ENERGY SCORECARD

RESET HERS INDEX

THIS HOME'S SCORE 17

OUT OF 150

THIS HOME'S ESTIMATED ENERGY COSTS

\$388

PER YEAR

**HOME PROFILE**

**LOCATION:**  
1234 Main ST  
Stockton, MO 65785

**YEAR BUILT:**  
2006

**HEATED FLOOR AREA:**  
3,745 sq.ft.

**NUMBER OF BEDROOMS:**  
3

**ASSESSMENT**

**ASSESSMENT DATE:**  
09/12/2017

**SCORE EXPIRATION DATE:**  
09/12/2025

**ASSESSOR:**  
Amy Smith  
Acme Audits

**PHONE:**  
816-555-1212

**EMAIL:**  
info@acme.com

**LICENSE #:**  
2019-BR-0010-55

**HERS® Index**



**HOW MUCH ENERGY IS THIS HOME LIKELY TO USE?**

Electric:	3,269 kWh/yr	\$392
Natural Gas:	0 therms/yr	\$0
Other:		\$0
Renewable Generation:		(\$4)
<b>TOTAL ENERGY COSTS PER YEAR</b>		<b>\$388</b>

**HOW MUCH RENEWABLE ENERGY DOES THIS HOME GENERATE?**  
36 kWh/yr

**WHAT DOES THE SCORE MEAN?**

Home Energy Rating System (HERS) Index: The HERS rating conveys a home's energy efficiency relative to the 2006 International Energy Conservation code. HERS uses an asset-based energy model that compares the home as designed (the "rated home") against the same home built to 2006 IECC standards, considered the "reference home", which would score 100. A lower score is better; a home that uses 50% more energy than the reference home would score 150, and a home using 50% less energy would score 50. A zero-energy home that uses no energy (through efficiency and renewables) and saves 100% of the reference home's energy would score a 0. The score is most often used by builders complying with building energy code through the Energy Rating Index pathway in the International Energy Conservation Code (IECC), the ENERGY STAR program, or by contractors who are competing based on energy efficiency in new construction. Some lenders may also recognize HERS ratings and provide favorable financing. RESNET and the US Department of Energy determined that a typical resale home scores 130 on the HERS Index.

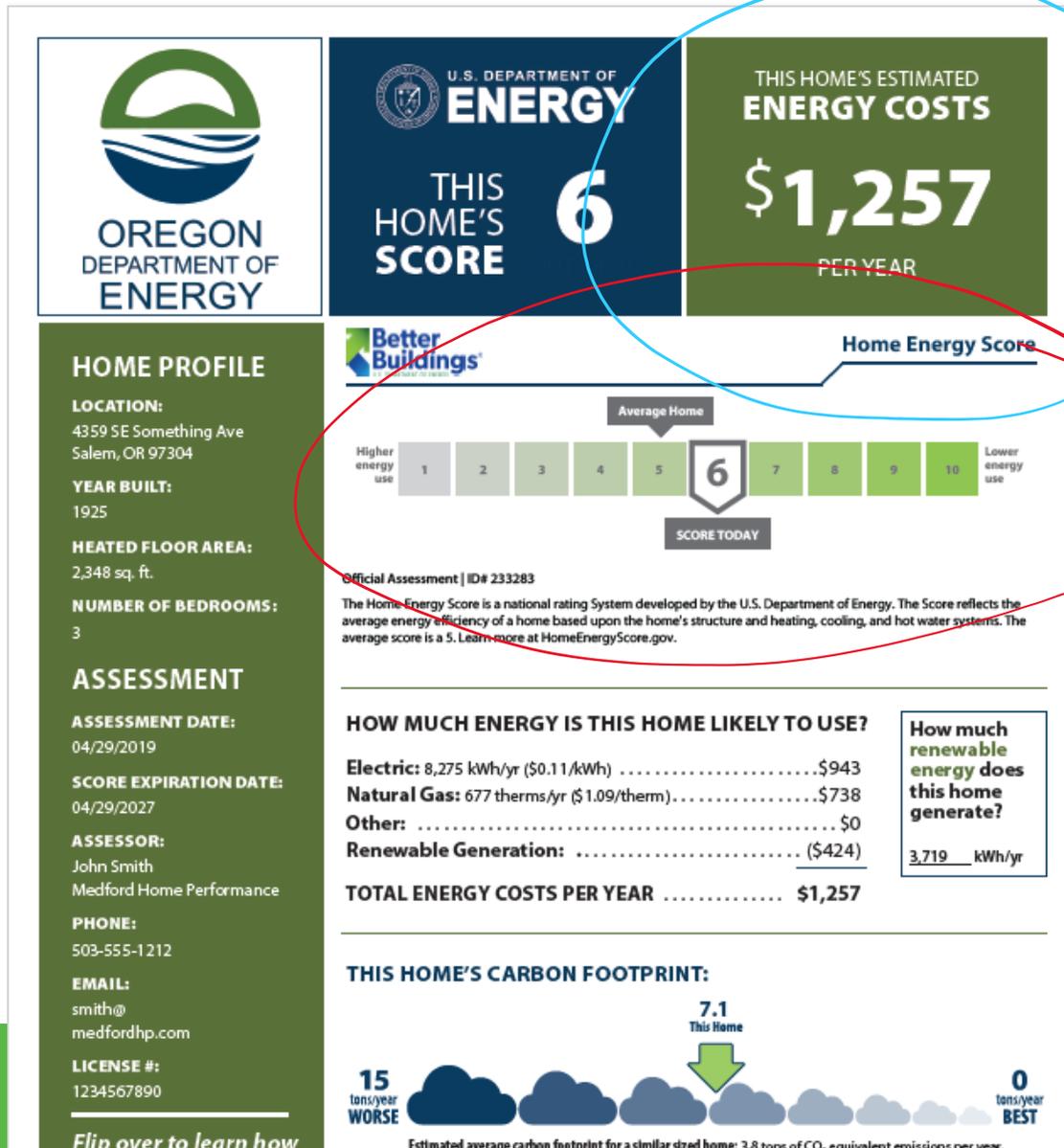
**MAKE THE MOST OUT OF YOUR NEW HOME!**

To learn more about ways to save energy, visit: [Energy.mo.gov](http://Energy.mo.gov)

- Total energy costs per year are estimated using an average utility cost (per unit of energy) for the State of Missouri (\$0.12/kWh for electricity; \$0.21/therm for natural gas).
- Actual energy costs per year may vary based on occupant behavior, utility provider, weather patterns, and appliance maintenance/health.
- Repeating 2-7 years after the assessment date requires a free reprint of the Report from [us.greenbuildingregistry.com](http://us.greenbuildingregistry.com) to update energy information.
- This report meets the standards of Missouri Home Energy Certification program administered by the Department of Economic Development, Division of Energy.

# Oregon State Label Example

Information about the home and assessment

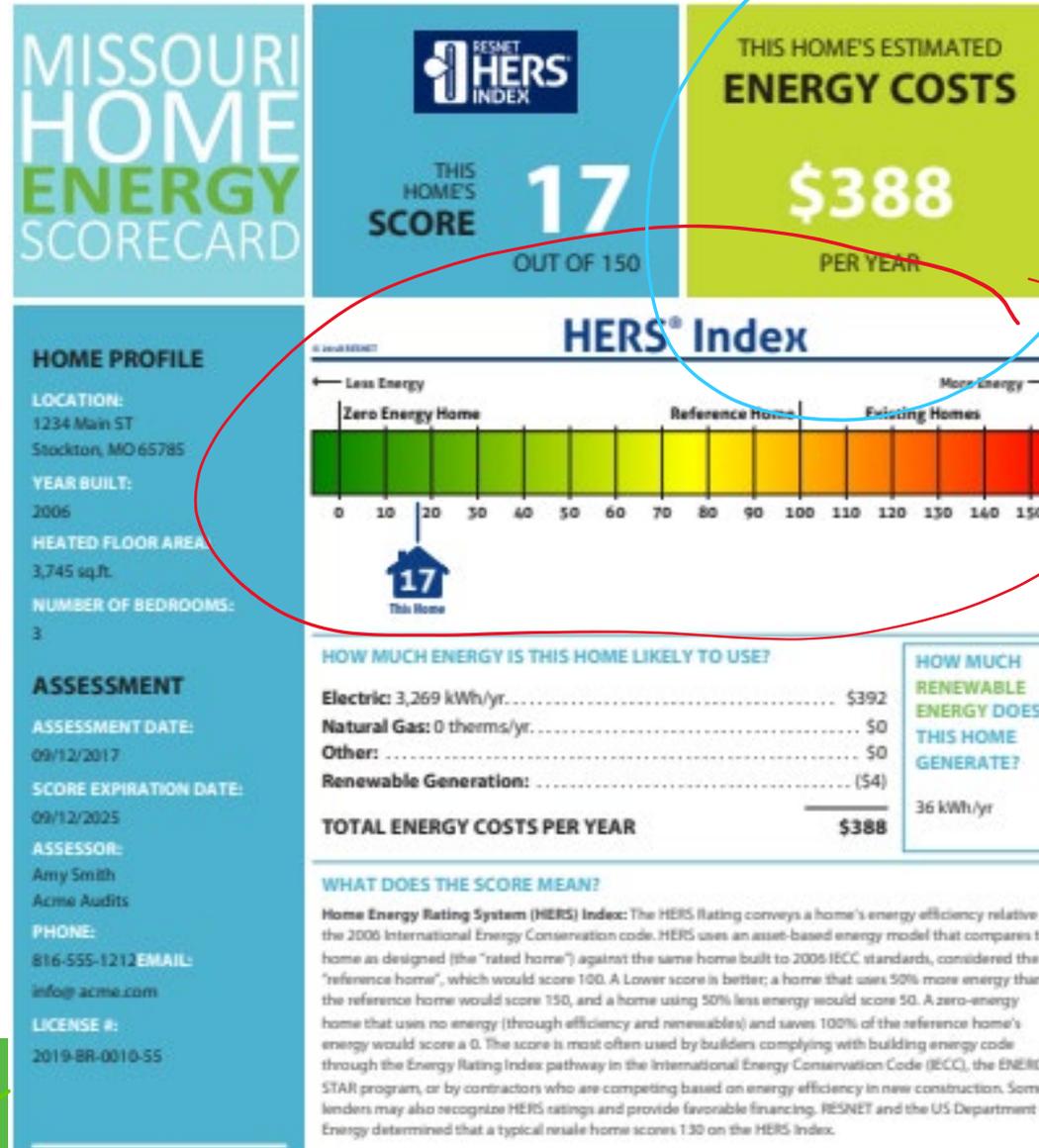


Estimated Energy Costs

Home Energy Score Scale: 6 of 10

# Missouri State Label Example

Information about the home and assessment



Estimated Energy Costs

Home Energy Rating Index Scale: 17 of 150

# Working Group Input

- What information should be on the label
- How should that Information presented
- What other rating or labeling programs are currently in use in South Carolina
- Which software platform is preferred

# Future Meeting Schedule

- Standing Monthly Meeting
- 1 Hour WG meeting
- Each WG Meeting to Focus on Particular Question

# Questions or Comments

[swashington@ors.sc.gov](mailto:swashington@ors.sc.gov)

[builtenvironmentllc@gmail.com](mailto:builtenvironmentllc@gmail.com)

Project Information Page:

<https://energy.sc.gov/node/3970>

# Thank You!

ENERGY.SC.GOV

