



We Are Columbia

**COLUMBIA ENVIRONMENT AND INFRASTRUCTURE COMMITTEE MEETING
AGENDA
TUESDAY, APRIL 20, 2021**

The Columbia Environment and Infrastructure Committee will conduct a meeting on Tuesday, April 20, 2021 at 10:00 a.m. using video conferencing technology. The meeting will be streamed online at www.columbiasc.gov.

*The Honorable Tameika Isaac Devine, Chair
The Honorable Daniel J. Rickenmann and The Honorable William Brennan*

CALL TO ORDER

COMMITTEE DISCUSSION

1. Columbia's Climate Protection Action Committee Quarterly Update - Ms. Mary Pat Baldauf, Sustainability Administrator for the Public Works Department and Dr. Lori A. Ziolkowski, CPAC Chair

ADJOURNMENT

Columbia's Climate Protection Action Committee (CPAC)

April 2021 update

In this update:

- Energy events past + future (6/17/21)
- Energy labeling update
- Dominion update
- Q for you

Next time

- Ready for 100 consultant's report

Attachment: CPAC April 2021 Update (6619 : CPAC Quarterly Update)

Dr. Lori Z(iolkowski) - chair of CPAC

email: loriz@sc.edu

Prepared for the City of Columbia Environment and Infrastructure committee meeting April 20th, 2021.

Reduce greenhouse gas emissions

**To recap from Feb 2021
Current CPAC efforts**

Adapt to climate change

Reduce energy usage

Change how we generate electricity

Prepare for more extreme heat

Outreach on incentive and loan programs

Work with Dominion (& PSC) to source renewables

Help keep more citizens cool

Energy labelling for real estate & rentals

Energy consultant (via Sierra Club) to advise on Ready for 100

Use heat vulnerability to guide tree planting

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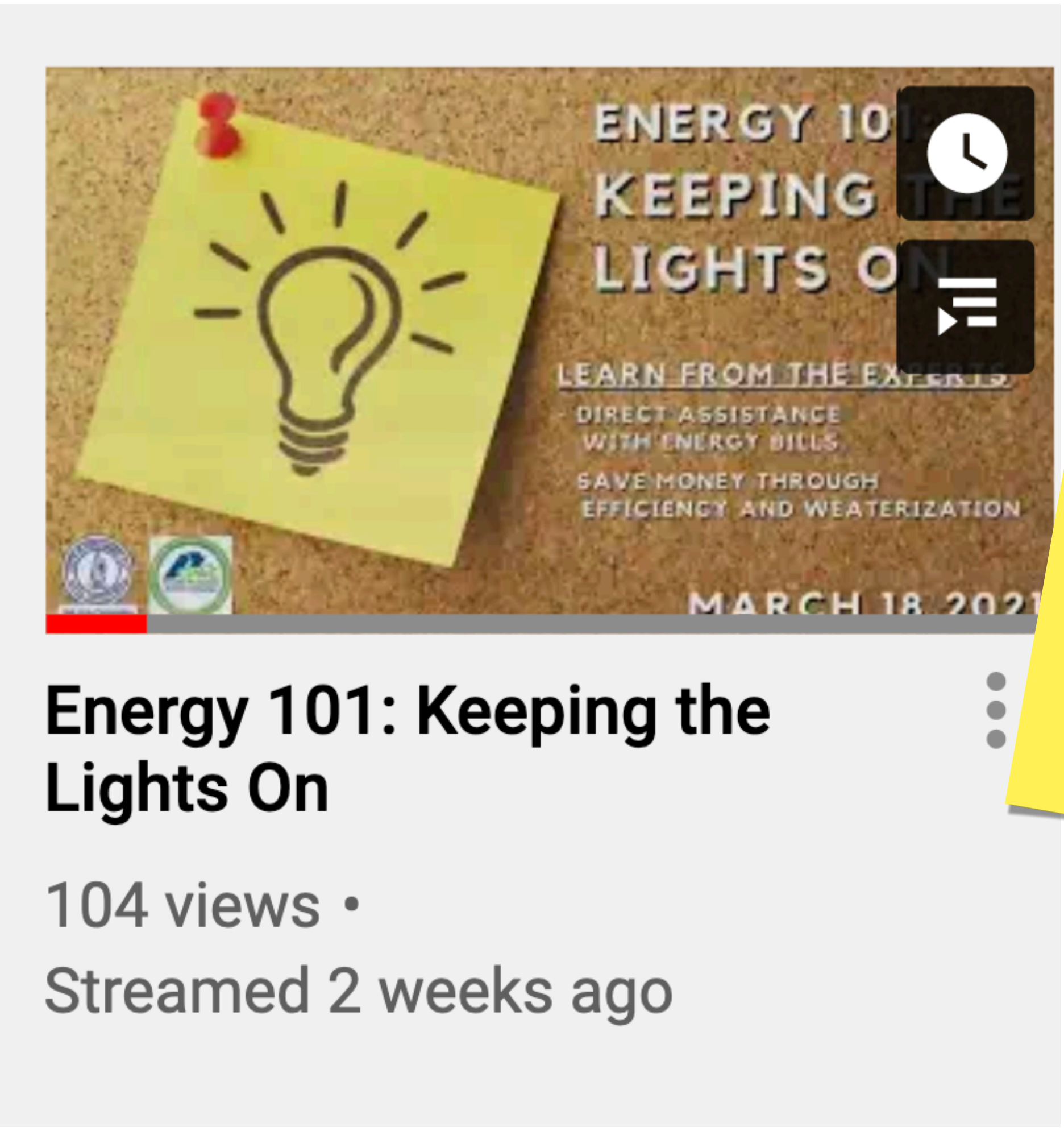
Energy consultant (via Sierra Club) to advise on Ready for 100

Use heat vulnerability to guide tree planting

Energy 101 event report

Goal: education on lowering energy costs and programs to improve home energy efficiency.

Streamed via the city's Youtube account
22 live guests
108 views as of April 14th



Next event: June 17th!

Topic: Keeping it Cool in Columbia!

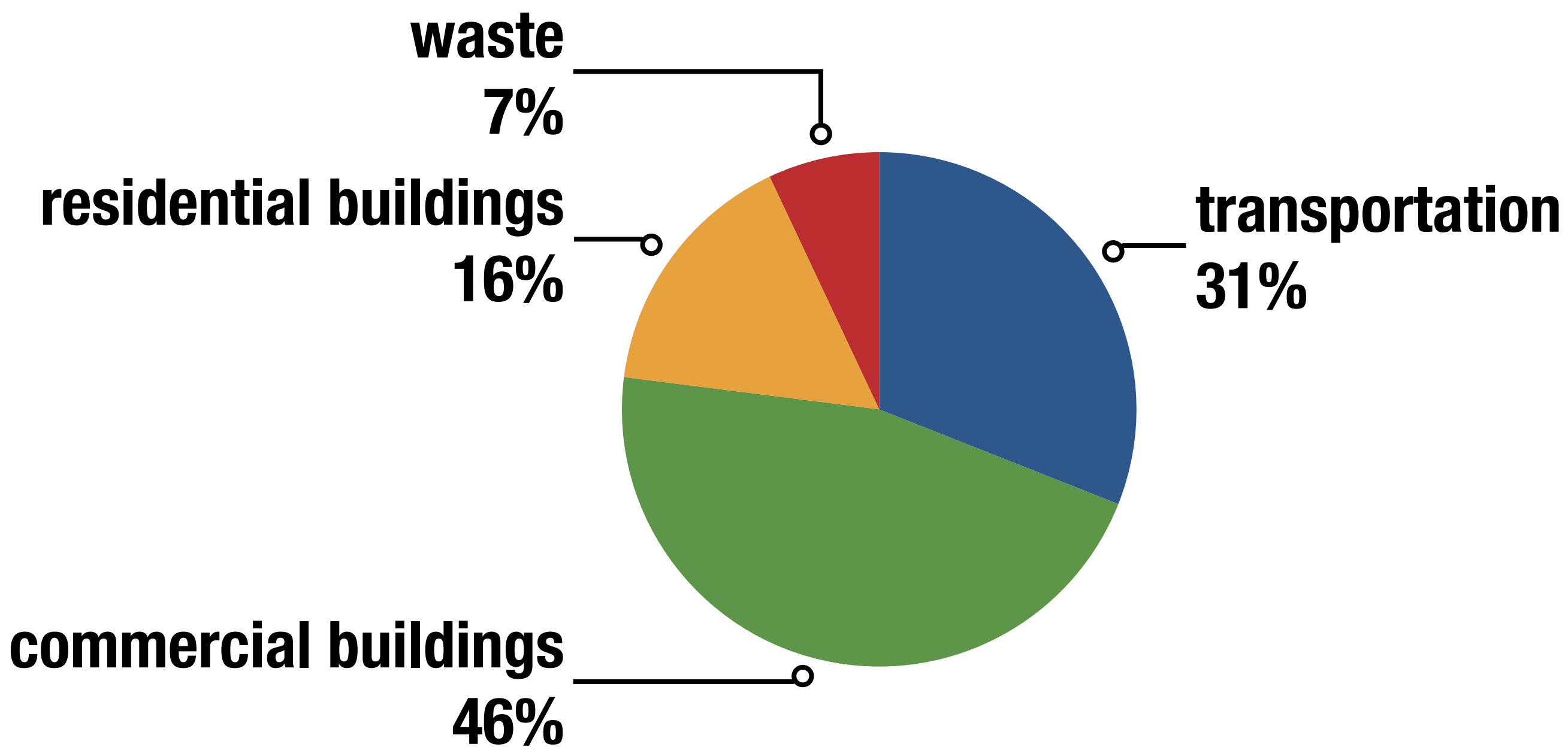
Details forthcoming

Takisha Waller
SC Office of Regulatory Staff

Thank you to city staff Mary Pat Baldauf and Justin Stevens their help!

Energy labelling project

City of Columbia Community wide greenhouse gas emissions



Note: this does not include goods, food, etc

From the SC state energy office

South Carolina Energy Efficiency Roadmap

Jennifer Weiss

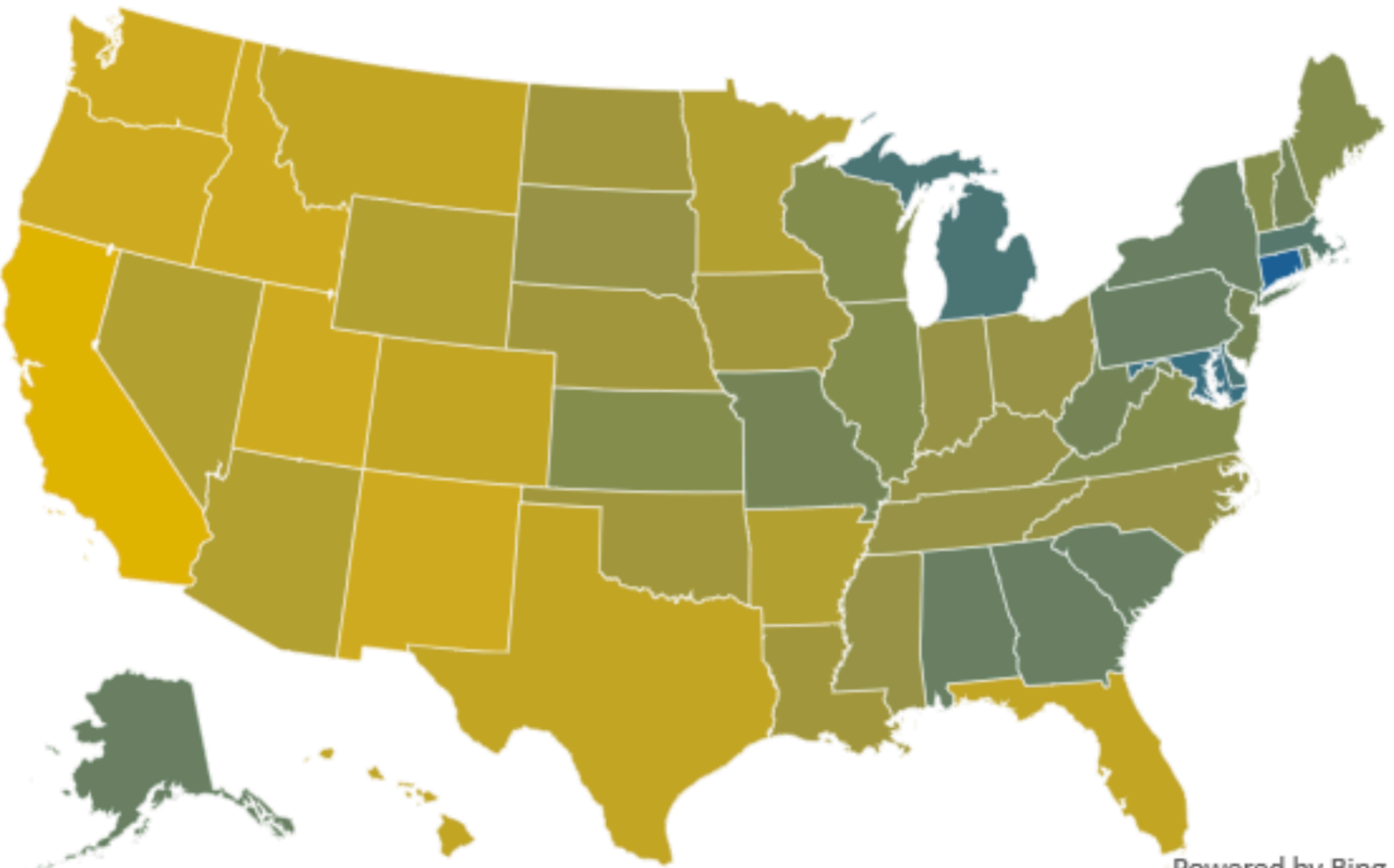
Table 1. South Carolina's Energy Efficiency Recommendations by Focus Area

Focus Area	Recommendation
Accessible Financing	Evaluate the expansion of on-bill financing programs (FM 1, p. 64)
	Assess the feasibility, costs, and benefits of establishing a South Carolina Green Bank (FM 2, p. 66)
Building Codes and Labeling	Adopt updated version of commercial energy code (EB 4, p. 59)
	Commence a commercial building labeling pilot/study (EB 1, p. 55)
	Develop a residential labeling/sticker disclosure pilot (EE/EB 1, p. 60)
Enhanced Data Tracking	Share energy usage history for commercial properties (EB 2, p. 56)
	Adopt a Technical Reference Manual to standardize savings metrics for all utility EE measures (UP 4, p. 80)
Legislative Action	Re-establish the state's energy conservation goals for state agencies, public colleges and universities, and public-school districts (Section 48-52-620) (NP/PE 1, p. 68)
	Update Section 48-52-640 to include LEDs as lighting replacement requirement (NP/PE 2, p. 69)
	Consider annual EE target for all electric and gas utilities (UP 2, p. 76)
Public Entities	Allow public entities flexibility in funding EE upgrades (NP/PE 3, p. 70)
	Install individual meters for new construction / major renovation of public buildings (NP/PE 4, p. 71)
	Develop energy conservation guidelines for public entities to consider when leasing new space (NP/PE 5, p. 73)

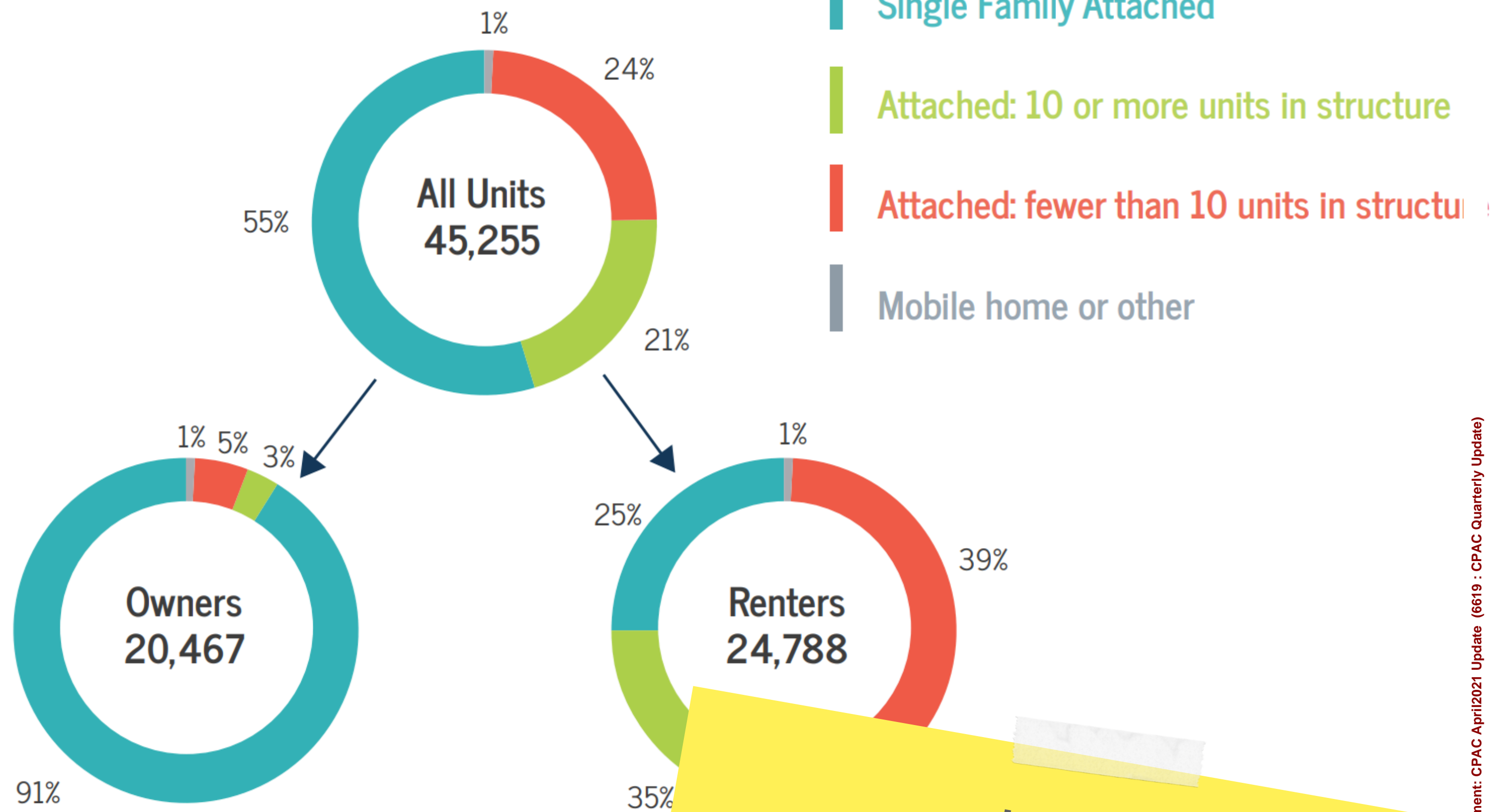
3. As the working groups began to discuss possible solutions, education and workforce development became a theme that resonated across all five. This was separated into its own working group in March 2020.

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At or Below Federal Poverty Line

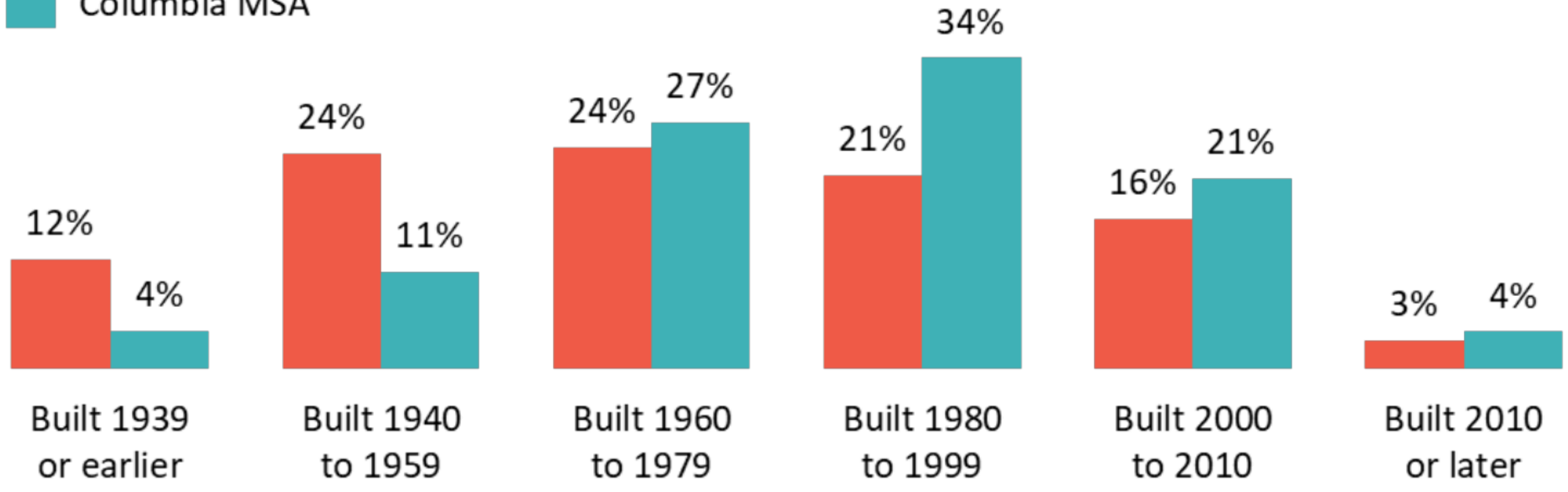


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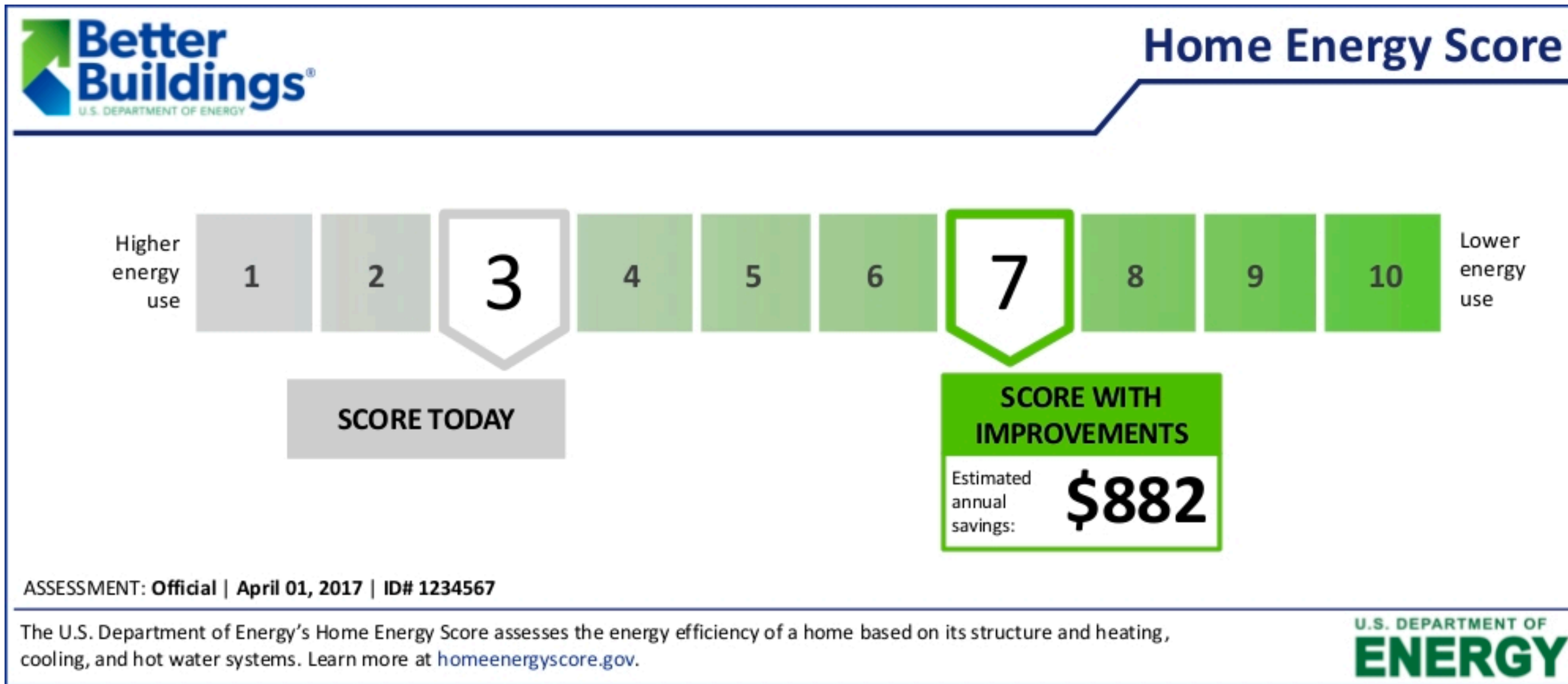
■ Columbia

■ Columbia MSA



In Columbia:
There are more renters than owners.
High energy burden in SC.

Energy labelling project



HOW-TO / TOOLS / ABOUT / CONTACT US



The Bureau of Planning and Sustainability led a policy development process throughout 2016 that resulted in the adoption of Portland City Code Chapter 17.108: Residential Energy Performance Rating and Disclosure. After three City Council hearings and several amendments, Portland City Council unanimously adopted the Home Energy Score Ordinance on December 14, 2016.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENERGY

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Missouri Home Energy Certification Program

The Missouri Home Energy Certification (MHEC) program encourages Missourians to reduce energy usage by making improvements or upgrades to their homes. MHEC is a voluntary program designed to promote energy efficient homes through clear and meaningful recognition. It is intended to help homeowners convey the invested value of the energy efficient features of their home to potential buyers. The criteria for recognition have been determined by working with interested and affected parties. Many of the existing energy programs have been taken into account regarding all aspects of home energy use and how they can tie together to recognize a home's energy efficiency.

Program Overview

Both new and existing single-family homes in Missouri are eligible for MHEC program. An eligible home can achieve one of two levels of certification under this program: Gold level or Silver level.

There are two ways to achieve Gold certification. The first relies on existing rating systems, such as the U.S. Department of Energy (DOE) Home Energy Score (HEScore), Home Energy Rating System (HERS) Index, and Columbia Water & Light's Efficiency Score (CWL Efficiency Score), to set the threshold for efficiency. The second approach recognizes homes that have installed significant assets to the International Energy Conservation Code (2012 IECC) level, or have achieved Energy Star Certified Home designation on or after January 1, 2017.

For silver certificates, homes will be recognized for significant energy efficiency improvements or for completing a majority of the cost-effective energy efficiency measures identified in an energy audit. The approach will be measured using the HEScore, HERS Index, CWL Efficiency Score, or as modeled by an approved energy audit. To earn the silver certificate, homeowners must have participated in an approved Missouri program or received an energy audit.



This work is in partnership with the SC State Energy Office.

Next steps:

- a) meeting with Missouri's Energy office (4/20 afternoon)
- b) Find a pilot community in COLA to voluntarily participate in this program
- c) Work voluntary rollout

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Work with Dominion (& PSC) to source renewables

Energy Freedom Act

Allows 3rd parties to generate via renewables

Duke's proposed Green Source

Dominion's voluntary renewable offering

135 MW generation cap
No carve out for cities or unis.
Unclear if fee structure is similar to GSA

Duke's amended Green Source Advantage

City of Greenville intervened at PSC

Pause...working on a different angle

135 MW generation cap
No carve out for cities or unis

Work with Dominion (& PSC) to source renewables

- **Goals: 100% carbon neutrality by 2036 + rate neutrality**
- **Question: how much will Dominion do by 2036? How much does the city need to do?**
 - What is our baseline starting point?
 - What are the growth projections by 2036 according to their IRP?
- **Dominion is open to working out custom deals for customers**
 - two avenues for custom deal
 - 1) local coalition in the midlands between the city, uni, and county using large project in the queue
 - 2) renegotiating the franchise agreement

**Work with
Dominion (& PSC)
to source renewables**

Recommendation:

Work on a custom deal with Dominion for a large scale solar development (~70MW) in partnership with the uni and the county.

Pros: more entities to increase the size, which reduces the risk; facilities community partnership between city, uni, and county. Helps with electrifying transit

Cons: relies on Dominion, not a legal route per se

Considerations: EV charging, EV transit?, grid to vehicle storage

Next steps?

Council: reach out to uni + county

Clint: continue convo with Dominion

Dr Z: training in renewable procurement

Longer term goals:

As of Jan 2021
Ongoing CPAC efforts

Reduce greenhouse gas emissions		Adapt to climate change
Reduce energy usage	Change how we generate electricity	Prepare for more extreme heat
Outreach on incentive and loan programs	Work with Dominion (& PSC) to source renewables	Help keep more citizens cool
Energy labelling for real estate & rentals	Energy consultant (via Sierra Club) to advise on Ready for 100	Use heat vulnerability to guide tree planting



Develop a **community wide climate action plan** that we can use to measure progress and engage with the public.



Provide framework for and make progress towards zero carbon emissions community wide by 2036

Question for you: how can we most effectively work together?

CPAC and federal efforts have shifted dramatically over last year

We are forging new territory.

How can we make the most of limited resources (time, \$, people)?

Thanks
loriz@sc.edu

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