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Georgia Residential Energy Code Field Studies

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OUR MISSION

To optimize the use and impact of energy to enhance the quality of life in the Southeast.

OUR VISION

All people in the Southeast live and work in healthy and resilient buildings, utilize clean and affordable transportation, and thrive in a robust and equitable economy.

OUR VALUES

Take Initiative

We take responsibility for realizing a better quality of life in the Southeast.

Value Others

We seek, respect, and promote diverse perspectives.

Earn Trust

We pursue our work with benevolence, competence, and reliability.

Pursue Equitable Solutions

We recognize, acknowledge, and account for a history of prejudice and inequality in Southeastern communities.

What is an Energy Code Field Study?

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Beginning in 2014, the U.S. Department of Energy (DOE) funded a series of **multi-year residential and commercial energy code field studies to explore energy savings opportunities from enhanced code compliance.**

The residential projects' primary goals were to:

1. Establish a standardized methodology to quantify the energy impacts of code-based measures in residential construction;
2. test whether compliance could be improved through education, training, and outreach activities; and
3. project the long-term savings from enhanced energy code compliance.

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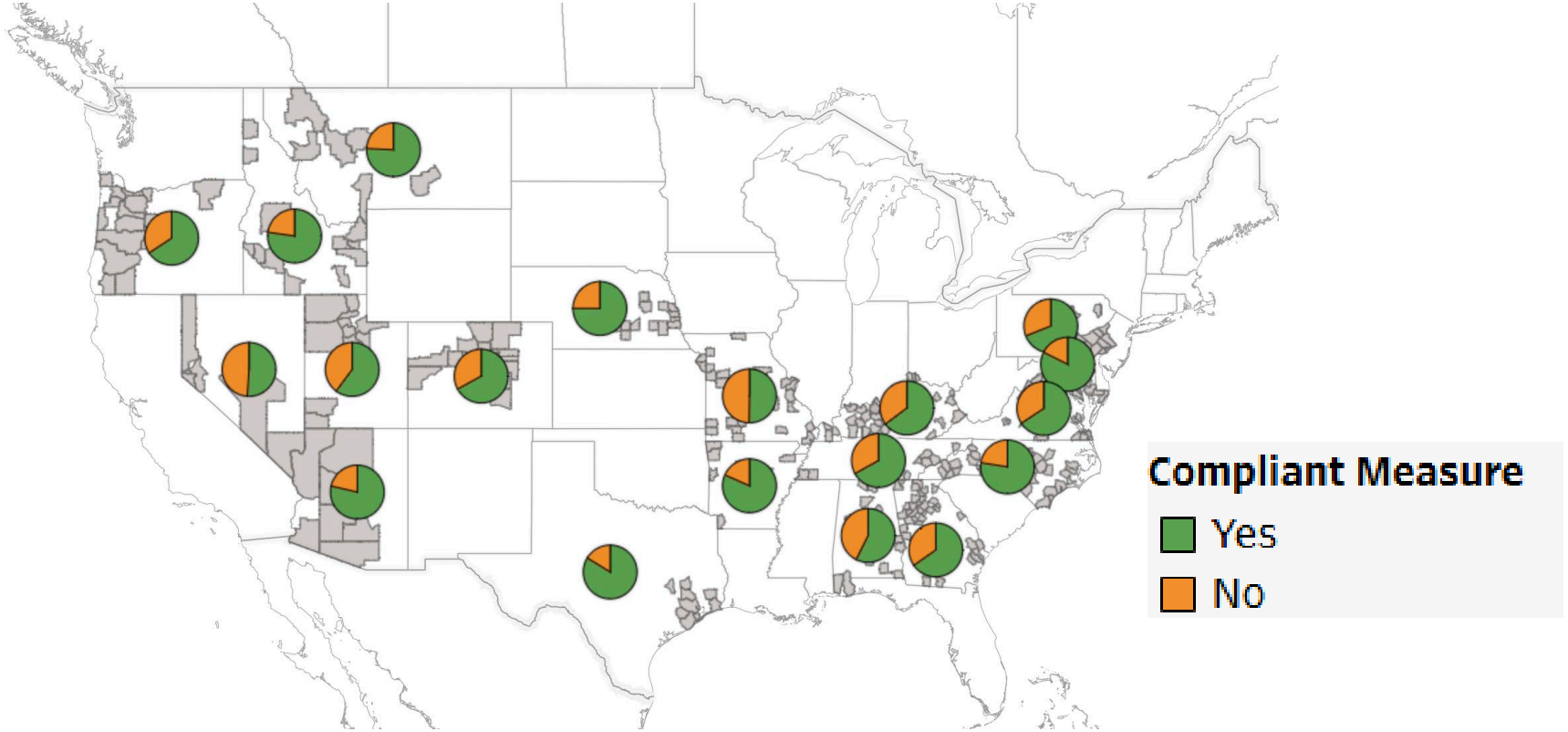
Residential Energy Field Study Dashboard

Statewide Compliance Rates for 8 Key Items



https://public.tableau.com/app/profile/doebecp/viz/ResidentialEnergyCodeFieldStudyDashboard/IntrotoFieldStudies

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SEEA Field Study Project Goals

Provide data to help inform the development of future resources and funding for energy efficiency in GA.

Assist in identifying opportunities for targeted training, outreach, and education to reduce energy use in homes & multifamily properties.

Help increase energy savings and reduce energy costs for communities and homeowners.

Provide data on low-rise **multifamily** housing for the first time in the Southeast.

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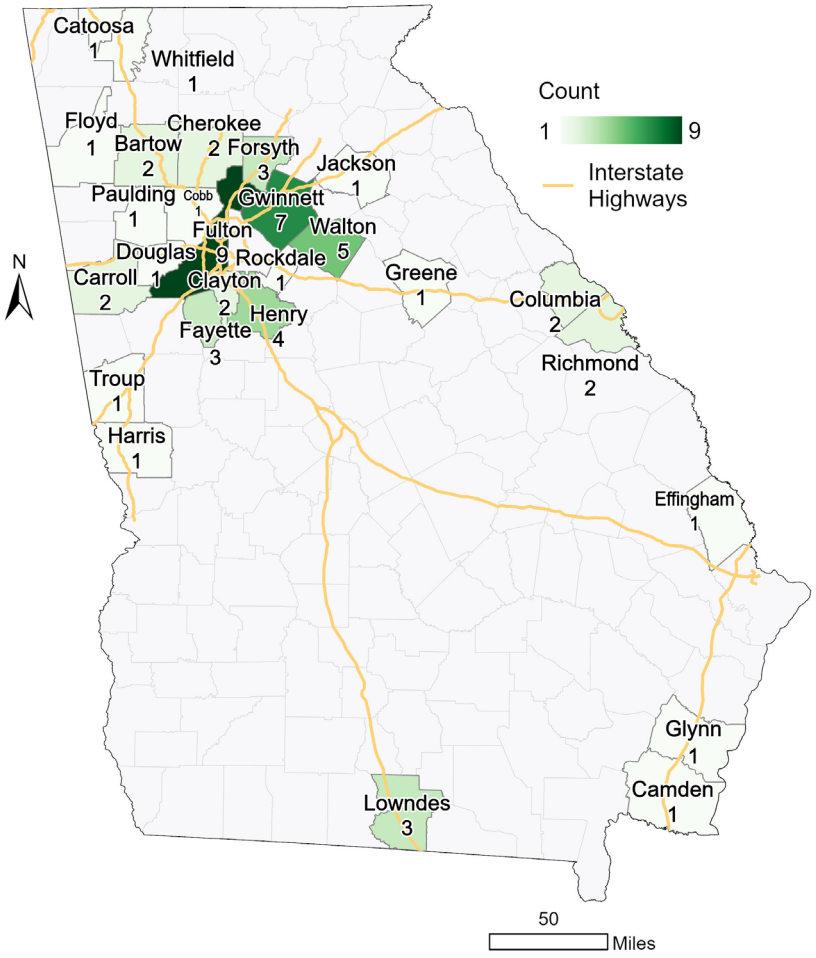
Single-Family Sampling Plan

- Data collection locations are determined by a state sampling plan, and then homes are selected at random.
- A total of at least 63 SF samples will be collected.
- Rural versus urban analysis
- No home is visited twice.
- **Data confidentiality is built into the study.**

GA Field Study: Counties in Sample Plan #1



Project Timeline & Key Data Items

Federal Transition

Executive Order: Unleashing American Energy pauses disbursing funds appropriated through IRA and BIL and requires federal agencies to evaluate current projects and programs in the next 90 days.

DOE has paused all external communication.

SEEA is continuing work. During this transitionary period, we will engage with stakeholders, gather input, and plan for the project's next two years.

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Project Timeline

October 2023 – December 2024

- Project kickoff
- Circuit rider stakeholder outreach
- Sampling plan selection
- RFP for data collection firm issued & firms(s) chosen
- Data collection team trained
- Data collection form finalized
- Data collection began in December

January – December 2025

- Ongoing data collection & QA with regular data submittals to PNNL
- Circuit rider stakeholder engagements
- Evaluation of training and technical assistance needs & plan creation

January – December 2026

- Data collection & QA complete with final submittal to PNNL for analysis
- Circuit rider stakeholder engagements

January 2027 – June 2027

- Presentation on field study and analysis results and engage stakeholders in findings
- Stakeholders participate in T&TA activities
- T&TA resources developed and deployed
- Circuit rider stakeholder engagements

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Key Data Items

- Windows (SHGC + U-Factor)
- Wall Insulation (R-Value + Grade)
- Foundation Insulation (R-Value + Grade)
- Ceiling Insulation (R-Value + Grade)
- Envelope Leakage (ACH50)
- Duct Leakage (Leakage by Area Served)
- Installed Lighting Efficacy

Plus: Important data points for stakeholders (e.g., HVAC efficiency, all electric (Y/N), EV charging infrastructure)

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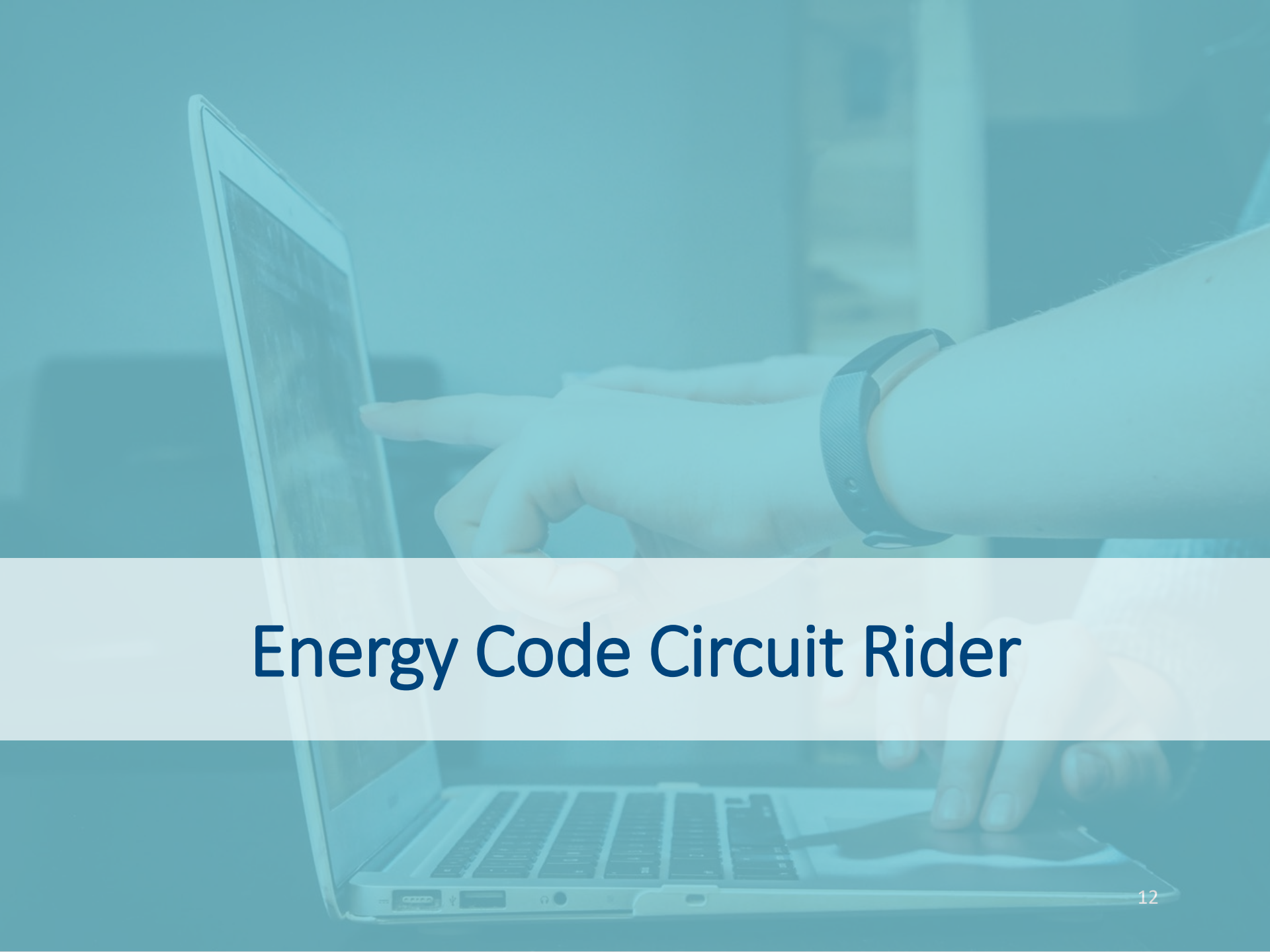

Energy Code Circuit Rider

Training & Technical Assistance

- Expanding SEEA's Energy Code Circuit Rider Program
  - Tailored technical assistance for jurisdictions and professionals
  - Individualized energy code training
  - Resources for energy codes
- State-based support
  - Someone who has been in the industry and knows how to tailor resources and support to your trade/professional needs

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Opportunities to Get Involved

- Upcoming association or organization meetings?
- Conferences or events in Georgia?
- Interested in training and technical assistance?
- Suggestions for other stakeholders to contact?

Send questions and requests to fieldstudies@seealliance.org

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Questions

Thank You

SMART ENERGY. STRONG ECONOMY. FOR ALL.

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