

Residential Energy Code Field Study Bidders' Conference

Tuesday, July 16th 2024

1:00 – 2:00 PM EST

Virtual



Agenda

Tuesday, July 16th, 1:00-2:00 PM

- 01 Introduction to Energy Code Field Studies
- 02 Sample Plans
- 03 Data Collection
- 04 RFP + Budget
- 05 Q&A

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.

Introduction to Energy Code Field Studies



What is a Residential Energy Code Field Study?

Residential energy code field studies are comprehensive evaluations of new construction homes designed to assess their energy efficiency.

Study Components

- During a **single visit**, experts collect data on how well a home meets the state's energy code, focusing on key areas that impact energy consumption.
- Study results are completely **anonymous**, with no personal identifying information shared (home addresses, code official names, or builder names).
- The study will explore relationships between
 - **Energy equity**
 - **Advanced building technologies**
 - **Code compliance**
- Insights gained from this study will be fundamental to updating educational curricula and delivery strategies for education providers.

Field Study Goals



Data

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



Identify Gaps

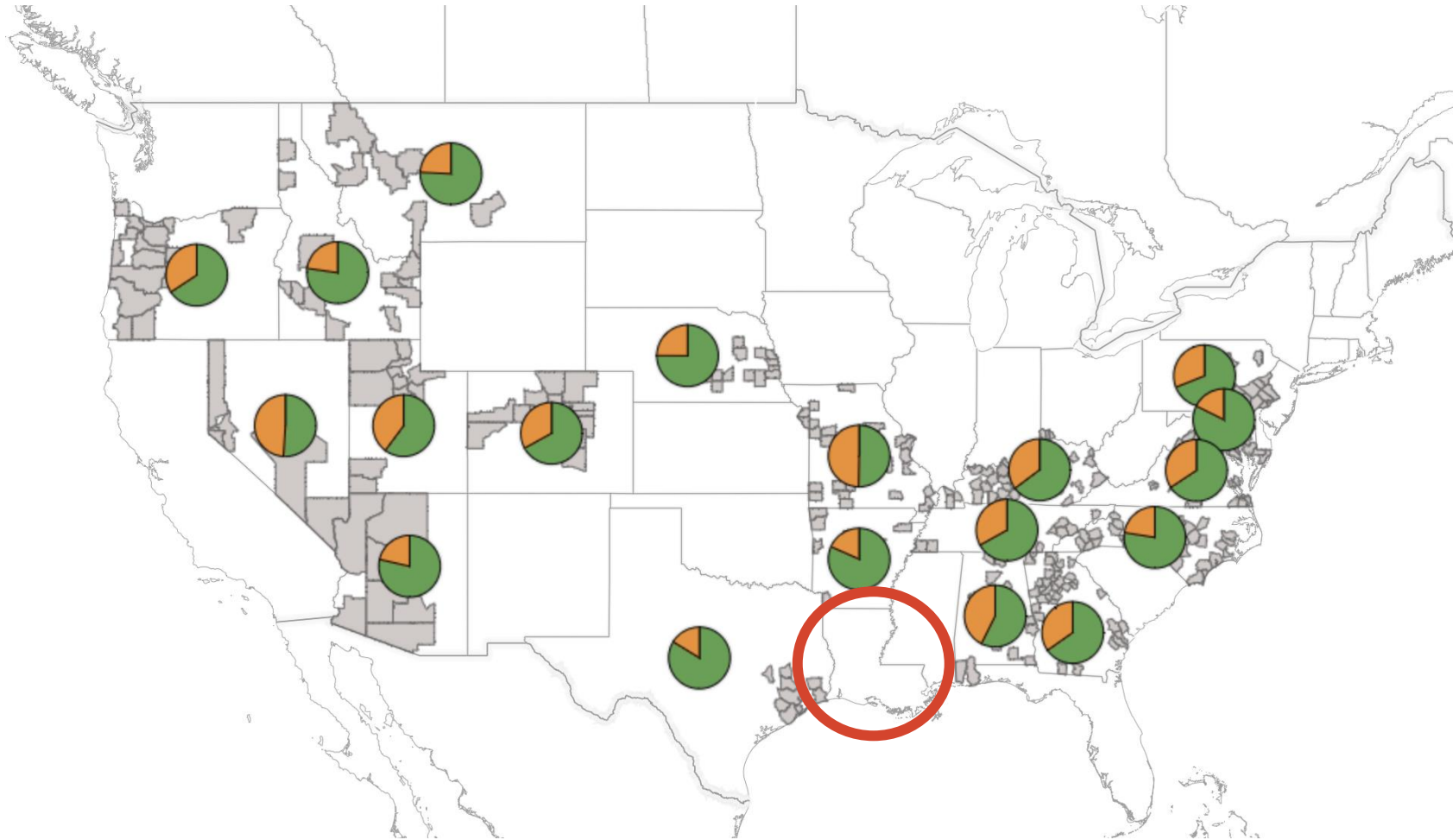
Assist in identifying opportunities for targeted training, outreach, and education to reduce energy use in homes & multifamily properties.



Economic Benefits

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

Residential Energy Field Study Dashboard



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

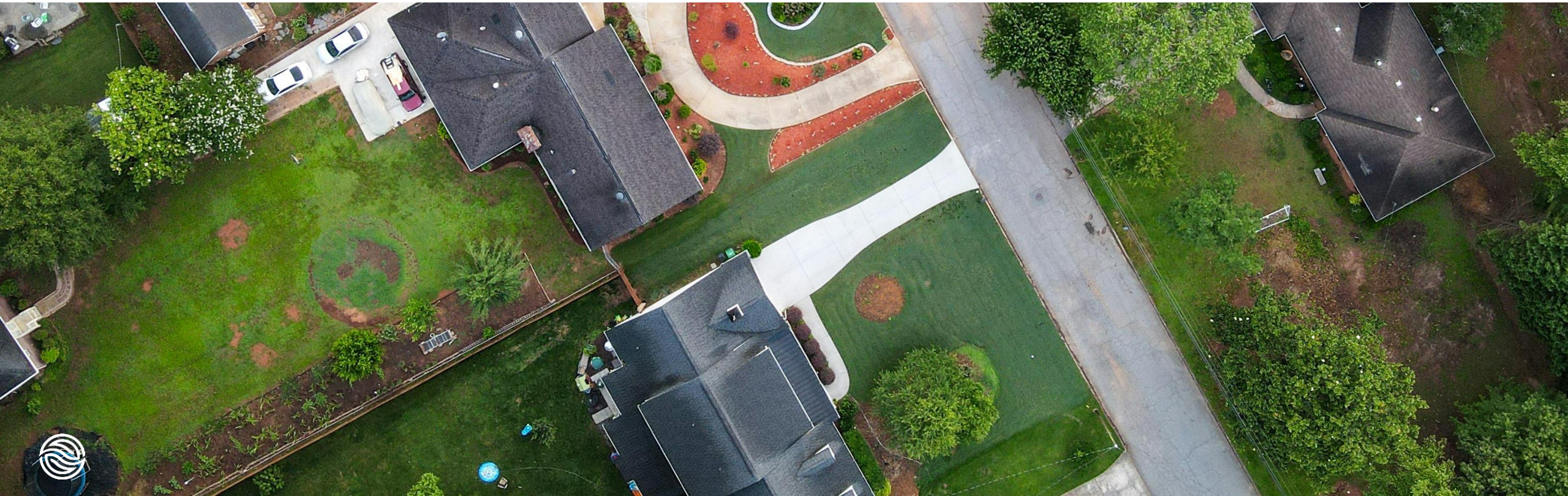
Period of Performance

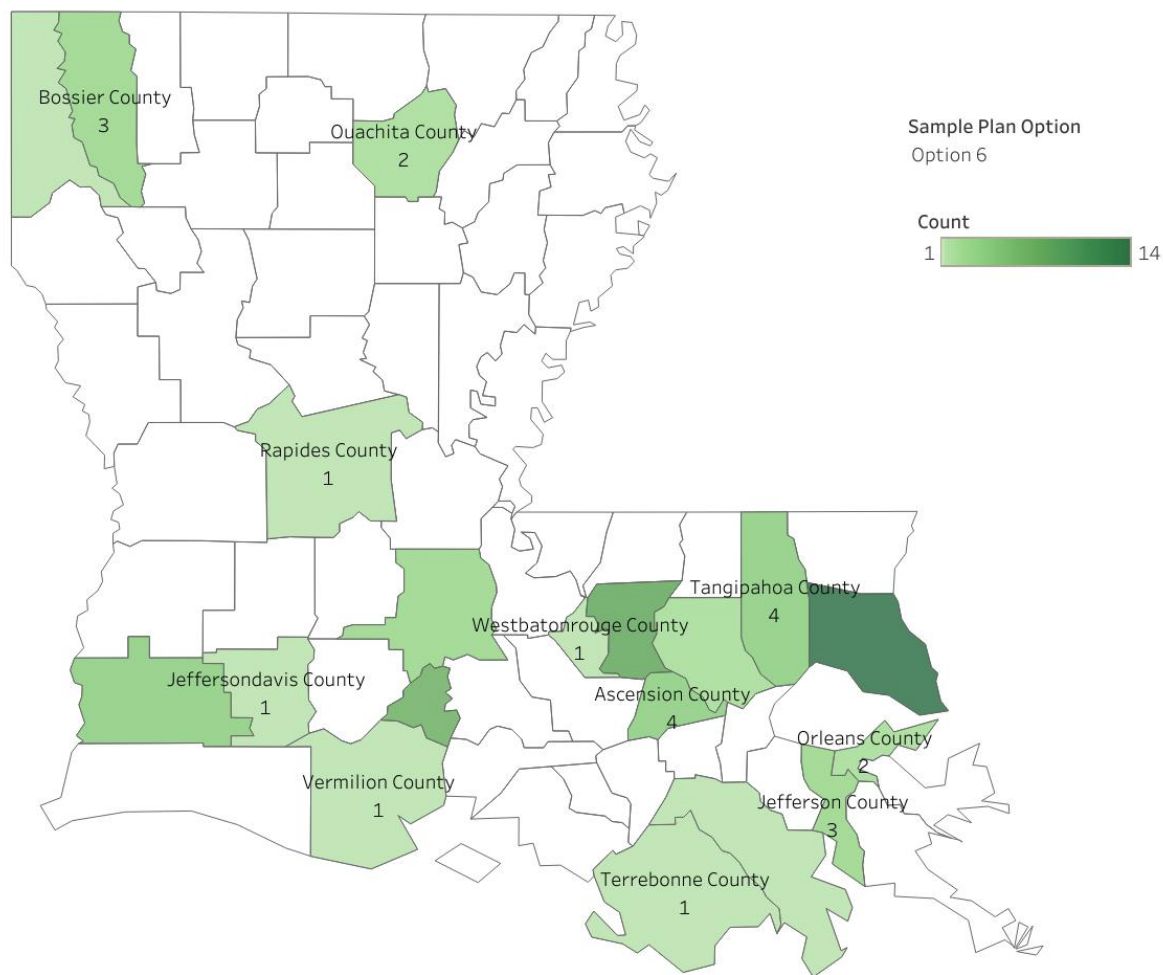
October 2024

September 2025



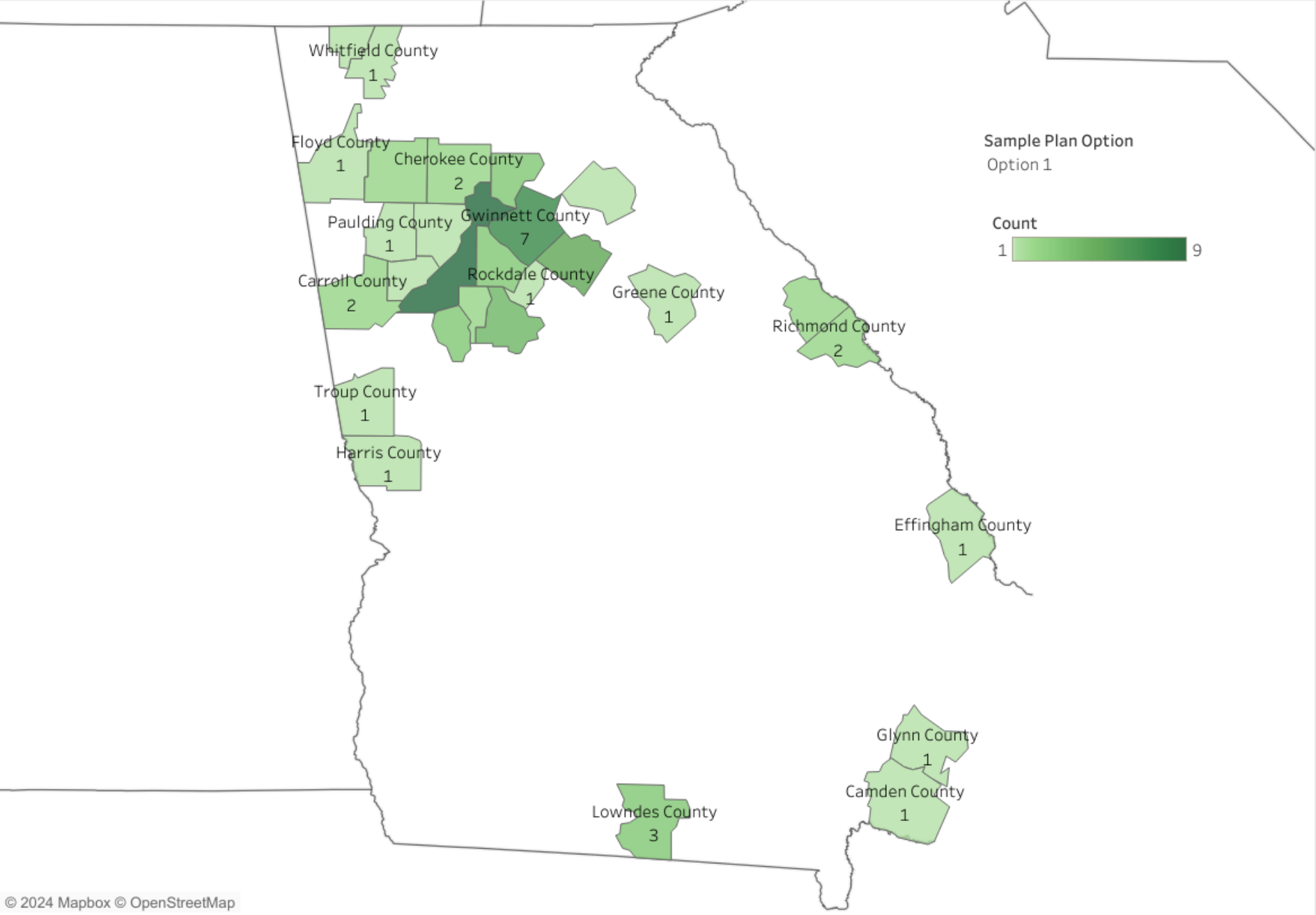
Sample Plans





Parish	Sample Count
Ascension	4
Bossier	3
Caddo	1
Calcasieu	4
East Baton Rouge	8
Jefferson	3
Jefferson Davis	1
Lafayette	7
Lafourche	1
Livingston	2
Orleans	2
Ouachita	2
Rapides	1
St. Landry	3
St. Tammany	14
Tangipahoa	4
Terrebonne	1
Vermilion	1
West Baton Rouge	1

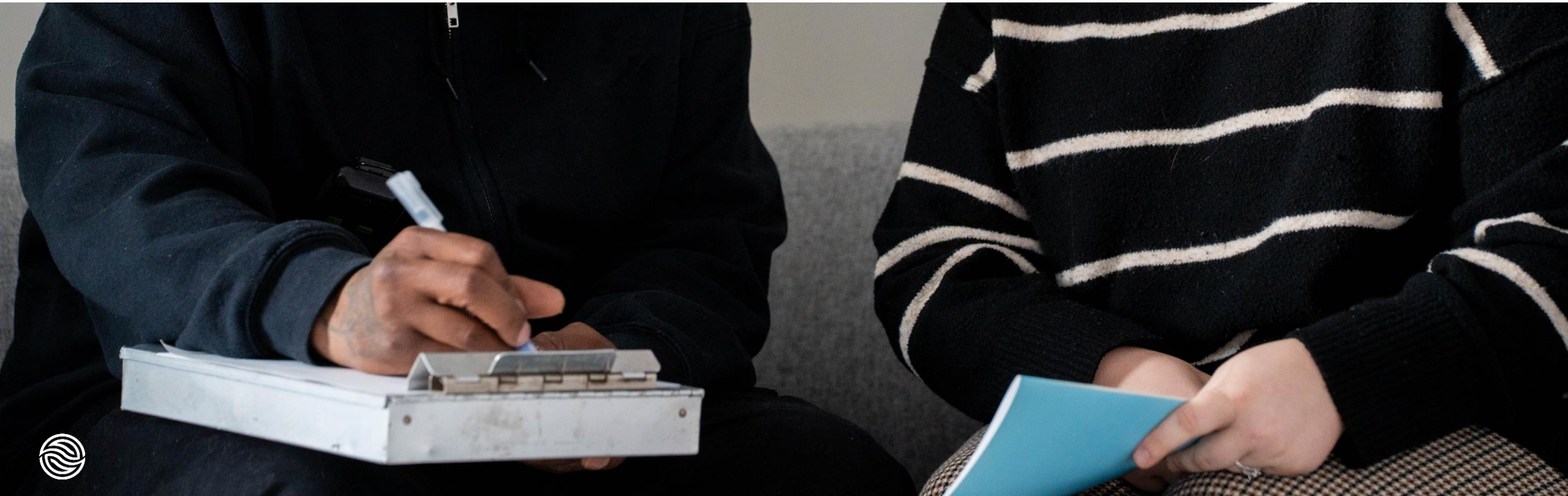
GA Sample Plans: Option 1



County	Sample Count
Bartow	2
Camden	1
Carroll	2
Catoosa	1
Cherokee	2
Clayton	2
Cobb	1
Columbia	2
Dekalb	3
Douglas	1
Effingham	1
Fayette	3
Floyd	1
Forsyth	3
Fulton	9

County	Sample Count
Fulton	9
Glynn	1
Greene	1
Gwinnett	7
Harris	1
Henry	4
Jackson	1
Lowndes	3
Paulding	1
Richmond	2
Rockdale	1
Troup	1
Walton	5
Whitfield	1

Data Collection



Methodology

- Data collection jurisdictions are determined by state sampling plan.
- Homes are selected at random.
- No home is visited twice (Each data set, "sample", is a compilation of 2 – 3 houses from different builders).
- Data is collected at the pre-drywall stage and the final stage.
- No builder, contractor, or code official identification will be collected.
- A total of at least 63 single-family samples will be collected from across the state.

Data confidentiality is built into the study.

Key Data Points

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

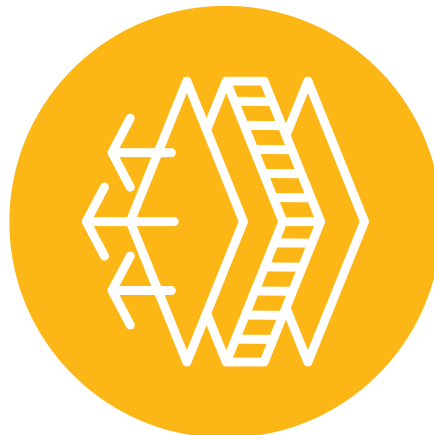
Windows

SHGC + U-Factor



Wall Insulation

R-Value + Grade



Foundation Insulation

R-Value + Grade



Ceiling Insulation

R-Value + Grade



Lighting Efficacy



Envelope Leakage

ACH50



Duct Leakage

Leakage by Area Served



RFP + Budget



Key Information

Issue Date:	07/08/24
Submission Period:	07/08/2024 – 07/31/2024
Review Period:	08/12/2024 - 08/26/2024
Period of Performance:	10/01/2024 – 09/30/2025

RFP Highlights

- Objective: Engage a data collection team for a residential energy code field study.
- Project Scope:
 - Data Gathering and Submission:
 - Gather, organize, and submit single-family data and photos with geolocation data to SEEA bi-weekly. Follow the provided protocol and QA process, correcting any errors based on SEEA's feedback
 - Stakeholder Engagement:
 - Coordinate with local jurisdictions, homebuilders, and additional stakeholders to identify opportunities for site inspections and build goodwill
 - Data Analysis and Reporting:
 - Provide timely and comprehensive reporting on project activities, milestones, deliverables, challenges, and mitigation strategies

RFP Submission Instructions

- Submit a completed proposal in a single email with a single file in PDF format containing items 1-4 below, and a project budget using the supplied budget template in Excel format.
- Submit to fieldstudy@seealliance.org with the subject *Request for Proposal *Insert State* Data Collection Team*

Proposal Sections
1. Cover Page
2. Declaration of Qualifications
3. Statements of Qualifications
4. Letters of Partnership
5. Budget

RFP Scoring Criteria

Scoring Criteria	Points
1. Team Structure and Management Plan	10
2. Team and personnel qualifications	20
3. Data collection plan	20
4. Prior experience and references	20
5. Budget	10
6. Leadership and/or partnership with Women or Minority-Owned or Led Organizations	20

A	B	C	D	E	F	G	H	I	J	K	L	M	N
2009 IECC Residential Data Collection Form - Envelope													
ID	Code	Description	Construct	g	System	Key Item	Meets	Not	Not	Field	Format	Units	Comments
Envelope Air Leakage													
FI17	402.4.2.1	Blower door test results from	Final	Envelop	Air	Key Item				6.05	Number	ACH50	volume 24800, cfm 2602
BD1	NA	Blower door test results from	Final	Envelop	Air				Not		Number	ACH50	
FR23a	402.4.1	All joints, seams, and penetrations in	Framing	Envelop	Air				Not		Check Box		
FR23b	402.4.1	Site-built windows, doors, and	Framing	Envelop	Air				Not		Check Box		
FR23c	402.4.1	Openings between window and door	Framing	Envelop	Air				Not		Check Box		
FR23d	402.4.1	Utility penetrations sealed	Framing	Envelop	Air				Not		Check Box		
FR23e	402.4.1	Dropped ceilings or chases adjacent	Insulation	Envelop	Air				Not		Check Box		
FR23f	402.4.1	Knee walls sealed	Insulation	Envelop	Air		Does not				Check Box		
FR23g	402.4.1	Walls and ceilings separating a	Final	Envelop	Air				Not		Check Box		
FR23h	402.4.1	Thermal envelope behind tubs and	Framing	Envelop	Air				Not		Check Box		
FR23i	402.4.1	Common walls between dwelling	Framing	Envelop	Air			Not			Check Box		
FR23j	402.4.1	Attic access openings sealed	Final	Envelop	Air		Complies				Check Box		
FR23k	402.4.1	Rim joist junctions sealed	Insulation	Envelop	Air				Not		Check Box		
FR23l	402.4.1	Other sources of infiltration sealed	Insulation	Envelop	Air				Not		Check Box		
AB&I1	402.4.2.2	Air barrier and thermal barrier per	Insulation	Envelop	Air				Not		Check Box		
AB&I2	402.4.2.2	Ceiling and attic per Table 402.4.2	Final	Envelop	Air		Does not				Check Box		
AB&I3	402.4.2.2	Walls per Table 402.4.2	Framing	Envelop	Air				Not		Check Box		
AB&I4	402.4.2.2	Windows and doors per Table	Insulation	Envelop	Air				Not		Check Box		
AB&I5	402.4.2.2	Rim joists per Table 402.4.2	Framing	Envelop	Air				Not		Check Box		
AB&I6	402.4.2.2	Floors (including above-garage and	Insulation	Envelop	Air				Not		Check Box		
AB&I7	402.4.2.2	Crawl space walls per Table 402.4.2	Framing	Envelop	Air			Not			Check Box		
AB&I8	402.4.2.2	Shafts and penetrations per Table	Insulation	Envelop	Air				Not		Check Box		
AB&I9	402.4.2.2	Narrow cavities per Table 402.4.2	Insulation	Envelop	Air				Not		Check Box		
AB&I10	402.4.2.2	Garage separation per Table	Final	Envelop	Air				Not		Check Box		
AB&I11	402.4.2.2	Recessed lighting per Table 402.4.2	Final	Envelop	Air		Complies				Check Box		
AB&I12	402.4.2.2	Plumbing and wiring per Table	Insulation	Envelop	Air				Not		Check Box		
AB&I13	402.4.2.2	Shower and tub on exterior walls per	Insulation	Envelop	Air				Not		Check Box		
AB&I14	402.4.2.2	Electrical and phone boxes on	Insulation	Envelop	Air				Not		Check Box		
AB&I15	402.4.2.2	Common wall per Table 402.4.2	Insulation	Envelop	Air			Not			Check Box		
AB&I16	402.4.2.2	HVAC register boots per Table	Insulation	Envelop	Air				Not		Check Box		Not allowed to remove HVAC
AB&I17	402.4.2.2	Fireplace per Table 402.4.2	Insulation	Envelop	Air				Not		Check Box		

A		D	E	F	G	H	I	J
1 FULLY BURDEN LABOR RATE AND EXPENSE PROPOSAL FORM								
3 Offeror Name:				Request for Proposal No.:				
5 CATEGORY (insert additional rows if necessary)		ESTIMATED COST FOR TASK 1	ESTIMATED HOURS FOR FIELD WORK	ESTIMATED COST FOR TASK 2	ESTIMATED HOURS FOR QA	ESTIMATED COST FOR TASK 3	TOTAL ESTIMATED HOURS	TOTAL ESTIMATED COST
6 LABOR:								
7 Best Field Study Inc.								
8 Director of Field Operations		\$5,200.00		\$0.00	40.00	\$2,600.00	120.00	\$7,800.00
9 Manager of Quality Assurance		\$3,000.00		\$0.00	200.00	\$10,000.00	260.00	\$13,000.00
10 Field Pro		\$2,100.00	800.00	\$28,000.00	200.00	\$7,000.00	1060.00	\$37,100.00
11								
12								
13								
14 Inspections-R-Us								
15 Manager of Field Operations		\$6,000.00	40	\$2,000.00	80	\$4,000.00	240.00	\$12,000.00
16 Field Guru		\$4,200.00	600	\$21,000.00	80	\$2,800.00	800.00	\$28,000.00
17								
18								
19 Subtotal Labor Expense:								\$97,900.00
20 OTHER, if applicable: (see instructions)								
21								\$0.00
22								\$0.00
23								\$0.00
24 Subtotal Other Expense:								\$0.00
25								Total Expense: \$97,900.00
26								
27		I hereby certify that the above proposed rate(s) and attachments to this form are complete and accurate as of the date signed.						
28								
29								
30								
31 Authorized Signature:								
32		List additional attachments that are part of this proposal, if any:						
33								

INSTRUCTIONS - PLEASE READ!!!

1. Identify Travel as separate items. Examples of Purpose of Travel are site visits, team meetings, training events, etc. Examples of Basis for Estimating Costs are past trips, travel quotes, GSA rates, etc.
2. All listed travel must be necessary for the performance of the Statement of Work.
3. Only travel that is directly associated with this contract should be included.
4. Federal travel regulations and applicable cost principles apply to this contract.
5. Travel costs should remain consistent with travel costs incurred by an organization during normal business operations as a result of the organizations written travel policy. In absence of a written travel policy, organizations must follow the regulations prescribed by the General Services Administration.
6. Columns G, H, I, J, and K are total per trip per the total number of travelers.
7. The number of days is inclusive of day of departure and day of return.
8. Recipients should enter City and State in the Depart from and Destination fields.

Task #	Purpose of Travel	Depart From	Destination	No. of Days	No. of Travelers	Lodging per Traveler	Flight per Traveler	Vehicle per Traveler	Per Diem Per Traveler	Cost per Trip	Basis for Estimating Costs
1	LA Codes Convening	New Orleans, LA	Baton Rouge, LA	3	2	\$214	\$0	\$109	\$103	\$852	Current GSA rates
1	LA Codes Convening	New Orleans, LA	Baton Rouge, LA	2	1	\$214	\$0	\$109	\$103	\$743	Current GSA rates
2	Data collection - S. LA	New Orleans, LA	S. LA	10	1	\$150	\$0	\$500	\$100	\$3,000	Current GSA rates
					SR					\$0	
TOTAL TRAVEL										\$3,743	

Additional Explanation (as needed):

Q&A

A background image showing two male technicians in a utility room. One technician on the left is wearing a blue beanie and a dark jacket, holding a yellow and black tool. The other technician on the right is wearing a dark cap and a dark jacket with a purple hood, reaching up towards a water heater. The water heater is a Reem Performance model. The scene is dimly lit with some overhead lighting.

Get In Touch!

fieldstudy@seealliance.org

Thank You



SMART ENERGY. STRONG ECONOMY. FOR ALL.

WWW.SEEALLIANCE.ORG