



Iowa Residential Field Study Kickoff Meeting



Oran Pape Public Safety Building, Des Moines, IA

October 26, 2023

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Midwest Energy Efficiency Alliance

The Midwest Energy Efficiency Alliance (MEEA) is a collaborative network, promoting energy efficiency to optimize energy generation, reduce consumption, create jobs and decrease carbon emissions in all Midwest communities.



MEEA is a non-profit membership organization with 160+ members, including:



Energy service companies & contractors



State & local governments



Academic & Research institutions



Electric & gas utilities



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The Field Study Team

Outreach



TEG Team



MEEA Team



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What is a Field Study?

- A research study about typical single-family construction practices
- Anonymous on-site observations of common energy related key measures
- Results only published on statewide basis
- No data, photos, or identifying information will be shared with anyone outside the study, including authorities having jurisdiction



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What is a Field Study?

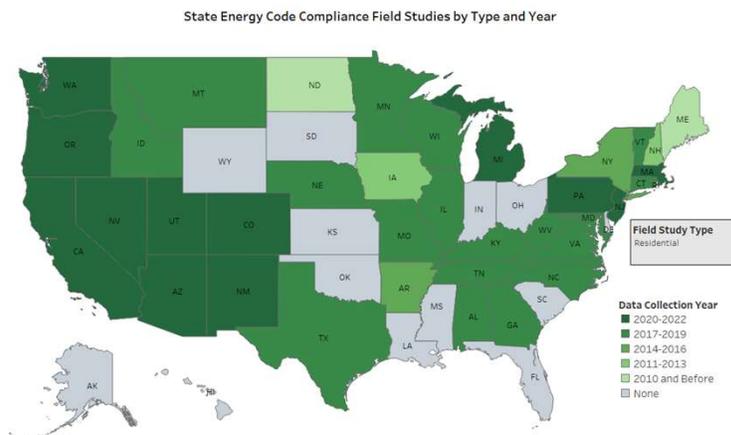
- Collection of data typically takes less than an hour
- Will not interfere with ongoing operations
- Goal is to better understand how energy code requirements are being implemented in the field
 - Basis for developing additional resources



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Who Has Done a Field Study?

Field Studies are Not New



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How Does a Field Study Get Done?

- Study is done on a county basis
 - Any new, never-occupied home in a selected county can participate
- Data will be collected at Pre-Drywall phase and at Final
- 63 data sets are required for the study
 - 1 pre-drywall + 1 final = 1 data set



Image: All Florida Insulation



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How Does a Field Study Get Done?

- Both components of a data set have to be from the same county
- A given home can only be visited once
 - Therefore, the study data collected cannot determine individual home compliance.



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How Does a Field Study Get Done?

- A blower door test and duct tightness test are required for each data set
 - Can share these results with builder upon request
- Trained data collectors will visit construction site to collect data for the study



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How Does a Field Study Get Done?

- Data collection at pre-drywall typically takes about half an hour
- Data collection at final, including testing, typically takes about an hour
- Data collectors provide their own equipment and will clean up after themselves
 - Not that there is much to clean up



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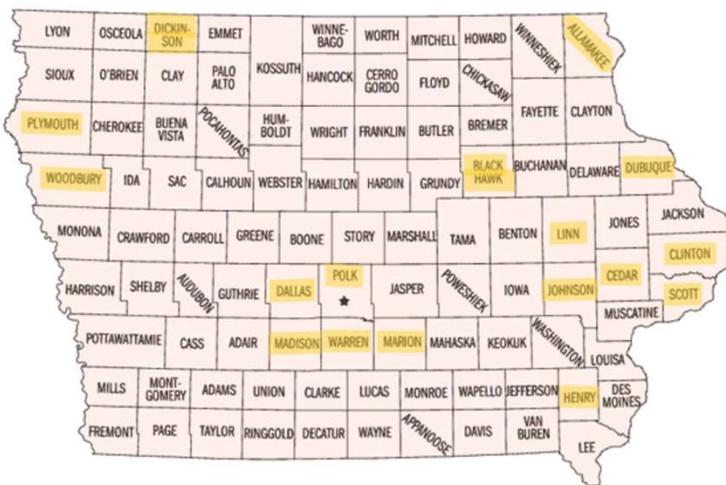
Data Collection Points – Key Items

- Envelope Tightness
- Window U-Factor
- Wall Insulation
- Ceiling Insulation
- Foundation Insulation
- High Efficacy Lighting
- Duct Leakage
- Electrical Panel Size



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Counties Included

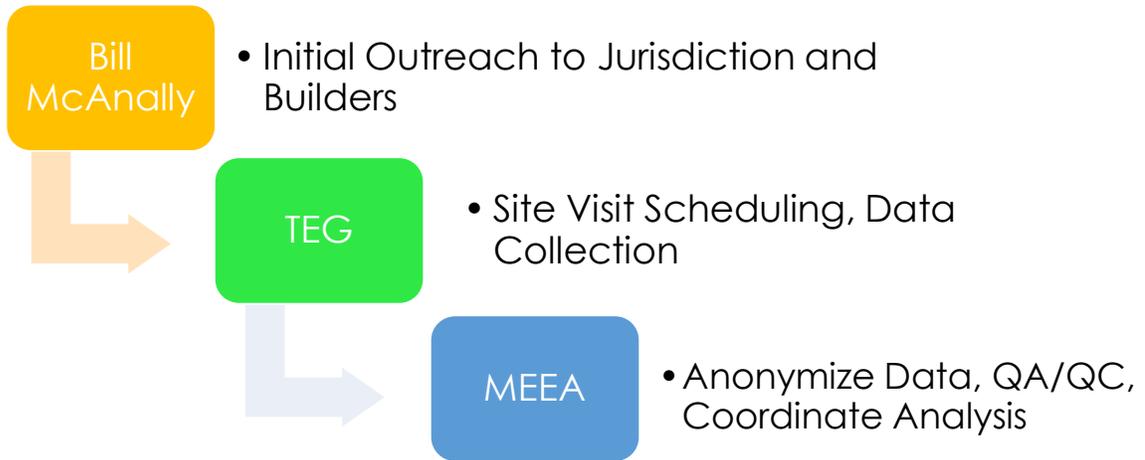


Polk County 5A	22
Dallas County 5A	7
Linn County 5A	7
Scott County 5A	5
Dubuque County 5A	4
Warren County 5A	3
Black Hawk County 6A	3
Johnson County 5A	2
Henry County 5A	2
Dickinson County 6A	1
Woodbury County 5A	1
Marion County 5A	1
Madison County 5A	1
Allamakee County 6A	1
Plymouth County 6A	1
Clinton County 5A	1
Cedar County 5A	1



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Next Steps



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What Can You Do To Help

- Allow for data to be collected if Bill reaches out
- Proactively reach out to Bill McAnally if you know people or projects that would benefit the field study
- Help spread the word about the field study

A successful and accurate field study will benefit the entire state of Iowa



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Questions?

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Upcoming Event

Build It Right Seminar

Thursday, November 16 · 8am - 12pm CST
Town Clock Business Center for Northeast Iowa CC



Learn through an in-person, interactive program led by Bill McAnally about high-performing, energy efficient buildings in Iowa.

Continental breakfast and boxed lunches will be provided. Continuing educational credits (ICC, AIA, Resnet) are available. This event is free, but registration is recommended.



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