

Idaho Residential Code Evaluation – Onsite Data Collection in Support of NEEA/DOE's Analysis of Code Compliance and Energy Savings Potential: Technical Assistance Group (TAG)

KICKOFF PRESENTATION + DISCUSSION
28 June 2023

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Kickoff Presentation + Discussion

1. Introductions
2. Project overview
3. Sample plan finalization
4. Recruiting strategies
5. Non-recruiting challenges/considerations
6. Next steps
7. Questions

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NEEA/IEc Teams

NEEA	MOMENTUM	IEc
Tess Studley Meghan Bean	Matt Vandermeer	Greg Englehart Christine Lee Daniel Kaufman

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Technical Assistance Group (TAG)

- Group of key stakeholders recruited to help ensure study credibility.
- Selected from state officials, code officials, builders, and utility representatives.
- TAG members:
 - Understand state-specific challenges and opportunities
 - Provide input into sample plan
 - Assist with builder recruiting, and identify key contacts in jurisdictions in the sample plan

TAG MEMBERS

Charlie Allen, *City of Ammon*
 Alexa Bouvier, *Office of Energy and Mineral Resources*
 Jason Blais, *City of Boise*
 David Freelove, *Idaho Energy Circuit Rider*
 Todd Greenwell, *Idaho Power*
 Jerry Peterson, *Idaho Division of Building Safety*
 Patrick Sullivan, *City of Nampa*

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Study Overview

- Momentum Team to conduct inspections of newly constructed, residential single-family homes in the State of Idaho
- Inspections will be conducted based on DOE's [September 2022 Field Methodology](#)
- Inspections will support NEEA and DOE's efforts to estimate code compliance in Idaho under the 2018 IECC
- Inspections will cover seven key measures:
 - Envelope tightness
 - Windows
 - Wall insulation
 - Ceiling insulation
 - Lighting
 - Foundation insulation
 - Duct tightness
- Objective is to collect 63 of each measure by the end of September (will likely need to visit 2-3x the number of homes to get all measures)

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Sample Plan

- Sample plan options developed by DOE using U.S. Census permit data from the last three years (2020-2022)
 - Ten options; differences center around prioritizing urban versus rural areas, and representation of different climate zones
- TAG to select plan that gives greatest/most representative coverage of State

"The availability of multiple plans allows the project team and affected stakeholders to select one that addresses any specific state circumstances, including political and economic factors, while maintaining scientific validity." -DOE

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Sample Plan Discussion Questions

- Are there any areas with substantial building activity that are not represented?
 - Could/should information beyond Census data be used to inform the final sample list?
- Is there any reason to put a specific focus on different climate zones across the State (i.e., would homes be built differently depending on climate zone)?
- Are there any proposed sampling locations that are so remote that they should be replaced by similar locations that are less cost prohibitive?

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Option 1		Option 2		Option 3	
Location	Count	Location	Count	Location	Count
Ada County 5B	24	1 Ada County 5B	20	1 Ada County 5B	26
Canyon County 5B	10	2 Canyon County 5B	13	2 Kootenai County 5B	8
Bonneville County 6B	4	3 Kootenai County 5B	12	3 Jefferson County 6B	5
Minidoka County 6B	3	4 Bonneville County 6B	5	4 Canyon County 5B	4
Jefferson County 6B	3	5 Jefferson County 6B	3	5 Bonneville County 6B	3
Blaine County 6B	2	6 Madison County 6B	2	6 Twin Falls County 5B	3
Bingham County 6B	2	7 Gem County 5B	2	7 Valley County 6B	3
Madison County 6B	2	8 Bannock County 6B	1	8 Bingham County 6B	2
Bannock County 6B	2	9 Bingham County 6B	1	9 Payette County 5B	2
Twin Falls County 5B	2	10 Fremont County 6B	1	10 Bannock County 6B	1
Kootenai County 5B	2	11 Bonner County 6B	1	11 Teton County 6B	1
Cassia County 6B	1	12 Franklin County 6B	1	12 Madison County 6B	1
Latah County 5B	1	13 Nez Perce County 5B	1	13 Gem County 5B	1
Boise County 6B	1	14	0	14 Blaine County 6B	1
Payette County 5B	1	15	0	15 Boise County 6B	1
Gem County 5B	1	16	0	16 Franklin County 6B	1
Teton County 6B	1	17	0	17	0
Valley County 6B	1	18	0	18	0
		19		19	
Total	63	20 Total	63	20 Total	63

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Option 4

Location	Count
1 Ada County 5B	17
2 Canyon County 5B	13
3 Kootenai County 5B	10
4 Valley County 6B	3
5 Teton County 6B	3
6 Blaine County 6B	3
7 Bonneville County 6B	2
8 Fremont County 6B	2
9 Twin Falls County 5B	1
10 Madison County 6B	1
11 Bingham County 6B	1
12 Minidoka County 6B	1
13 Payette County 5B	1
14 Bonner County 6B	1
15 Boise County 6B	1
16 Latah County 5B	1
17 Jerome County 5B	1
18 Boundary County 6B	1
19	
20 Total	63

Option 5

Location	Count
1 Ada County 5B	21
2 Canyon County 5B	11
3 Kootenai County 5B	4
4 Teton County 6B	4
5 Bonneville County 6B	3
6 Blaine County 6B	3
7 Twin Falls County 5B	2
8 Minidoka County 6B	2
9 Gem County 5B	2
10 Payette County 5B	2
11 Bannock County 6B	1
12 Jefferson County 6B	1
13 Bingham County 6B	1
14 Fremont County 6B	1
15 Bonner County 6B	1
16 Latah County 5B	1
17 Franklin County 6B	1
18 Jerome County 5B	1
19 Boundary County 6B	1
20 Total	63

Option 6

Location	Count
1 Ada County 5B	18
2 Canyon County 5B	17
3 Kootenai County 5B	10
4 Bonneville County 6B	4
5 Nez Perce County 5B	3
6 Twin Falls County 5B	2
7 Valley County 6B	2
8 Teton County 6B	1
9 Madison County 6B	1
10 Bingham County 6B	1
11 Gem County 5B	1
12 Blaine County 6B	1
13 Fremont County 6B	1
14 Latah County 5B	1
15	0
16	0
17	0
18	0
19	
20 Total	63

Option 7

Location	Count
1 Ada County 5B	26
2 Canyon County 5B	7
3 Kootenai County 5B	6
4 Bonneville County 6B	4
5 Madison County 6B	4
6 Twin Falls County 5B	3
7 Bannock County 6B	2
8 Boise County 6B	2
9 Valley County 6B	1
10 Teton County 6B	1
11 Jefferson County 6B	1
12 Bingham County 6B	1
13 Gem County 5B	1
14 Fremont County 6B	1
15 Bonner County 6B	1
16 Boundary County 6B	1
17 Nez Perce County 5B	1
18	
19	
20 Total	63

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Option 8

Location	Count
1 Ada County 5B	27
2 Canyon County 5B	9
3 Kootenai County 5B	4
4 Twin Falls County 5B	4
5 Bannock County 6B	4
6 Bonneville County 6B	3
7 Jefferson County 6B	2
8 Latah County 5B	2
9 Teton County 6B	1
10 Madison County 6B	1
11 Minidoka County 6B	1
12 Payette County 5B	1
13 Blaine County 6B	1
14 Bonner County 6B	1
15 Boundary County 6B	1
16 Nez Perce County 5B	1
17	0
18	0
19	
20 Total	63

Option 9

Location	Count
1 Ada County 5B	20
2 Canyon County 5B	12
3 Kootenai County 5B	6
4 Bonneville County 6B	4
5 Teton County 6B	3
6 Payette County 5B	3
7 Twin Falls County 5B	2
8 Valley County 6B	2
9 Madison County 6B	2
10 Minidoka County 6B	2
11 Bannock County 6B	1
12 Jefferson County 6B	1
13 Gem County 5B	1
14 Bonner County 6B	1
15 Franklin County 6B	1
16 Cassia County 6B	1
17 Nez Perce County 5B	1
18	0
19	
20 Total	63

Option 10

Location	Count
1 Ada County 5B	15
2 Canyon County 5B	15
3 Kootenai County 5B	9
4 Bonneville County 6B	5
5 Teton County 6B	3
6 Madison County 6B	3
7 Twin Falls County 5B	2
8 Valley County 6B	2
9 Bannock County 6B	2
10 Payette County 5B	2
11 Minidoka County 6B	1
12 Blaine County 6B	1
13 Latah County 5B	1
14 Jerome County 5B	1
15 Nez Perce County 5B	1
16	0
17	0
18	
19	
20 Total	63

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Summary of Options

Location	Times Included?	Max	Min
Ada County 5B	10	27	15
Canyon County 5B	10	17	4
Bonneville County 6B	10	5	2
Minidoka County 6B	6	3	0
Jefferson County 6B	7	5	0
Blaine County 6B	7	3	0
Bingham County 6B	7	2	0
Madison County 6B	9	4	0
Bannock County 6B	8	4	0
Twin Falls County 5B	9	4	0
Kootenai County 5B	10	12	2
Cassia County 6B	2	1	0
Latah County 5B	6	2	0
Boise County 6B	4	2	0
Payette County 5B	7	3	0
Gem County 5B	7	2	0
Teton County 6B	9	4	0
Valley County 6B	7	3	0
Fremont County 6B	5	2	0
Bonner County 6B	6	1	0
Franklin County 6B	4	1	0
Nez Perce County 5B	6	3	0
Jerome County 5B	3	1	0
Boundary County 6B	4	1	0

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Recruiting Strategies

- Momentum will work to schedule visits at sites (one visit per site) in all jurisdictions from the selected sample plan
- Recruitment strategies include
 - Broad outreach - contacting builders, insulation/drywall installers, local code officials, etc. to determine timing of visits.
 - Outreach will reiterate the purpose of the site visit is not to check code compliance at individual homes, and results from site visits will only be reported at an aggregated level
 - We will offer to share site visit results with builders if they are interested
 - Momentum will also conduct visits opportunistically (i.e., finding homes while driving past)

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Recruiting Strategies

Group Discussion

- What other recruiting strategies would you recommend?
 - What are the best ways to recruit and conduct these visits in remote/rural areas?
- Who are some key individuals to contact from the groups listed above across the State?

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Other challenges/considerations

Group Discussion

- Are there any measures that will be difficult to collect information about?
- Are there any measures outside of the seven key measures that you are most interested in learning about through the study?
- What other challenges could make this study difficult to complete beyond recruiting?

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Next Steps

- Finalize sample plan
- Identify key contacts to assist with recruiting
- May hold future meetings if any unforeseen challenges arise

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Questions?

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