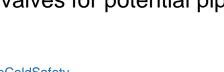
Ameren Missouri Energy Codes Compliance Collaborative

February 11, 2021
Residential Energy Code Support Program



Safety 101: Extreme Cold Safety

- Minimize travel.
- Stay indoors during the worst part of the extreme cold.
- Keep a <u>winter survival kit in your vehicle</u> if you must travel.
- Wear layers of loose-fitting, lightweight, warm clothing, and a hat.
- Learn how to shut off water valves for potential pipe bursts.







Source: https://www.weather.gov/bgm/outreachExtremeColdSafety

Agenda

- Introductions
- Real Estate Program Update
- Code Support Program Update
 - Discussion: Training topics
- Remote Virtual Inspection (RVI) Survey
- Discussion: Existing Buildings
- Wrap up



About MEEA

- We are a nonprofit membership organization with 160+ members including:
 - Utilities
 - Research Institutions and advocacy organizations
 - State and local governments
 - Energy efficiency-related businesses
- As the key resource and champion for energy efficiency in the Midwest, MEEA helps a diverse range of stakeholders understand and implement cost-effective energy efficiency strategies that provide economic and environmental benefits







Introductions

- Name
- Organization
- Location







Real Estate Program

- Upcoming courses (all virtual):
 - Green Designation (2 full days, 6 CEUs)
 - Stand Out from the Crowd: High Performing Homes (3 hours, 3 CEUs)
 - Green Appraisal course or webinar



Homeowner Welcome Kit

- For new home buyers
- Includes:
 - Overview of benefits of an energy audit
 - List of certified energy auditors
 - \$200 home energy audit coupon
 - Home Energy Audits can currently only take place in unoccupied homes
 - General information

Email <u>realestateaudits@mwalliance.org</u> if you are interested in these materials.

Homeowner Self-Assessment

- Pivot due to COVID homeowner apprehension to have contractors/auditors enter homes
- Worksheet designed to be completed by the homeowner to learn more about energy use in their home
- Ameren MO is offering a \$50 incentive to all residential customers who complete the self-assessment
- Homeowner receives a tailored list of recommendations based on responses



HOME ENERGY SELF-ASSESSMENT

Thank you for your interest in learning more about your home's energy use! This Home Energy Self-Assessment is designed to give you a better understanding of the energy efficiency of your home, including specific recommendations for ways to improve. This assessment should take no more than 45 minutes to complete. After completion, please mail or email the form to receive your custom recommendations and a \$50 incentive for your participation.

Your information

| First Name: _______ | Last Name: ______ | Address: ______ | City: ______ State: _MO__ZIP: ______ | Phone: ______

Your home's information

How old is it?

Do you know the type of insulation that is in your attic? If so, do you know the R-value of the insulation installed? (ex:R-49,R-60)

Take a look at some of the light fixtures. Are most of the light bulbs LEDs? Do you have incandescent lighting?

Homeowner Self-Assessment

- Interested in taking advantage of the self-assessment and \$50 incentive?
 - The PDF is downloadable here: www.amerenmissourisavings.com/realestate
 - Email <u>realestateaudits@mwalliance.org</u> with any questions or to receive a copy of the self-assessment.





Overview of Program

- Classroom/Virtual Training
 - Free training focused on the what, why and how of the residential energy code
- Energy Code Consultant
 - Proactively engages building industry to educate, investigate and improve energy code understanding in a small group or 1-on-1 setting
 - Delivers 1-hour trainings on energy code requirements
- Code Compliance Collaborative
 - Space for residential construction professionals to discuss opportunities and barriers to energy code <u>compliance</u>

Energy Code Consultant

- In-person meetings have resumed, but vast majority of engagement continues to be virtual
- Delivered Socially Distant 1-hour training on February 4 to Payne Family Homes
- 104 people engaged in 2021





Virtual 1-hour trainings

- Next virtual "1-hour" training scheduled for February 17
 - 11:30 a.m. 1 p.m. via Zoom
 - Covering changes to the energy code, common challenges, and best practices
 - To register:

 https://zoom.us/meeting/register/tJU
 qc-qgqjMrH9Hq4iUgWQ AzOn5Xukau5Zp





Matt's Contact Information

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Energy Code Consultant
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2020 Trainings

- Held three in-person trainings throughout the territory
 - January: St. Louis, Jefferson City A Systems Approach to Higher Performing Homes
 - February: St. Louis Improving Efficiency Comfort and Health in Existing Homes
- Three virtual trainings were held in the fall
 - October 27-29 Building Science Fundamentals
 - November 10 New Energy Codes and High Performing Homes
 - November 17 Impact of the Energy Code on Existing Homes



2020 Trainings Feedback

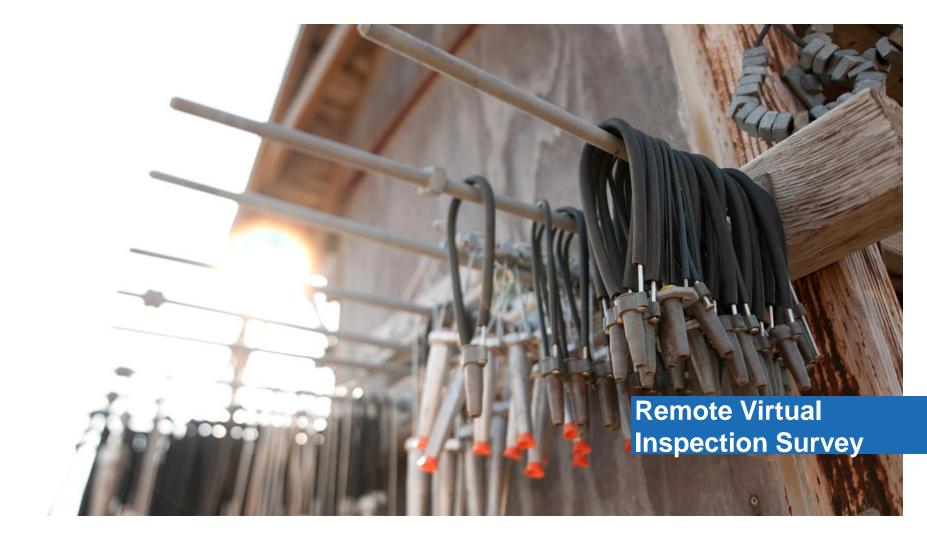
- ~20 participants per training
- Average training rating: 9.2/10
- Feedback
 - Hard to make it to fall trainings due to many events getting rescheduled for fall 2020
 - Shorter trainings would make it easier to attend
 - Hoping to attend a 200-level training or learn more advanced topics

2021 Training Plan

- Offering fall 2020 trainings again in February 20
 - Tuesday, February 23 (10am 12pm) The Impact of the Energy Code on Existing Homes
 - Register: https://www.eventbrite.com/e/the-impact-of-the-energy-code-on-existing-homes-virtual-tickets-138534405135
 - Thursday, February 25 (10am 12pm) New Energy Codes and High Performing Homes
 - Register: <u>https://www.eventbrite.com/e/new-energy-codes-and-high-performance-homes-virtual-tickets-138535590681</u>
- Leaving option to potentially host in-person trainings in October

2021 Trainings (cont.)

- Developing topic-specific webinars to offer throughout the year
 - Thursday, March 25 (10am 12pm) Topic: Spray foam insulation
- Topic-specific training dates Topic TBD
 - April 13
 - April 28
 - May 20
 - August 4
 - September 9
- Discussion: What topics would you be interested in seeing covered during these trainings?



Off-site Construction Project



- Off-site Construction Practices offer significant advantages to the single-family construction industry
- There are many market barriers to this building practice:
 - unclear building code requirements
 - lack of consumer and builder knowledge
 - limited technical resources for inspections



Off-site Construction Project

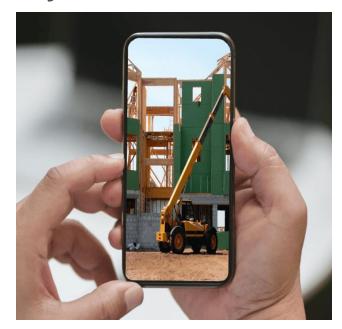
 Remote Virtual Inspections (RVI's): inspections which use visual or electronic aids to allow an inspector to observe certain types of construction or materials from a distance.





Remote Virtual Inspection (RVI) Survey

- Collaborating with ICC on survey distribution to jurisdictions, contractors and manufacturers
- Survey will go live first week of March
- Survey Goals:
 - Assess current use of RVI in the US and understand the barriers and opportunities of this resource
 - Develop educational and technical resources for off-site construction and virtual inspection stakeholders
- Email Crystal Egelkamp
 (cegelkamp@mwalliance.org) with questions







Top Compliance Challenges

- 1. House as a system (ventilation, air sealing, moisture management) (13)
- 2. 2018 IECC Implementation, lack of energy code consistency, existing economic stakeholders (12)
- 3. Existing Buildings/Retrofit (6)
- 4. Consumer knowledge (6)*
- 5. HVAC Oversizing (5)
- 6. Insulation Installation (2)
- 7. Duct Leakage (2)
- 8. Basement Insulation (0)



When does the energy code apply to existing buildings?



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- What are the major challenges with improving energy efficiency in existing buildings?



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- What opportunities are there to work on existing buildings in Missouri?
 - What are the issues that need to be addressed first?



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- What are the major challenges with improving energy efficiency in existing buildings?
- What opportunities are there to work on existing buildings in Missouri?
 - What are the issues that need to be addressed first?
- What resources/educational materials/training topics/etc. can the Collaborative provide to support work on existing buildings?



Save the Date

- Next Collaborative Meeting
 - Tentative Date: Tuesday, May 18, 2021
 - Location: Virtual
- Upcoming 1-hour Training
 - Tuesday, February 17, 2021 11:30am 1pm
 - Register: https://zoom.us/meeting/register/tJUqc-qqqiMrH9Hq4iUgWQ-AzOn5Xukau5Zp



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