2009 IECC and Energy Ratings in Arkansas

RESNET 2013

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AFFILIATE ORGANIZATION



Weatherization Works



PTC Classes and Training

Started in 2010 with ARRA grant:

- Training Center of Excellence
- Weatherization (14 Agencies)
- CAZ Zone
- EPA Lead
- Healthy Homes

Training Centers

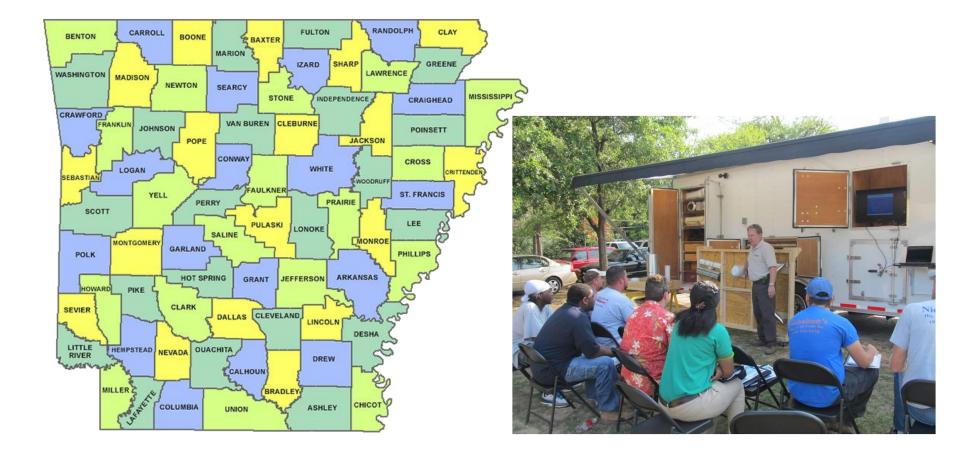








PTC Training state-wide

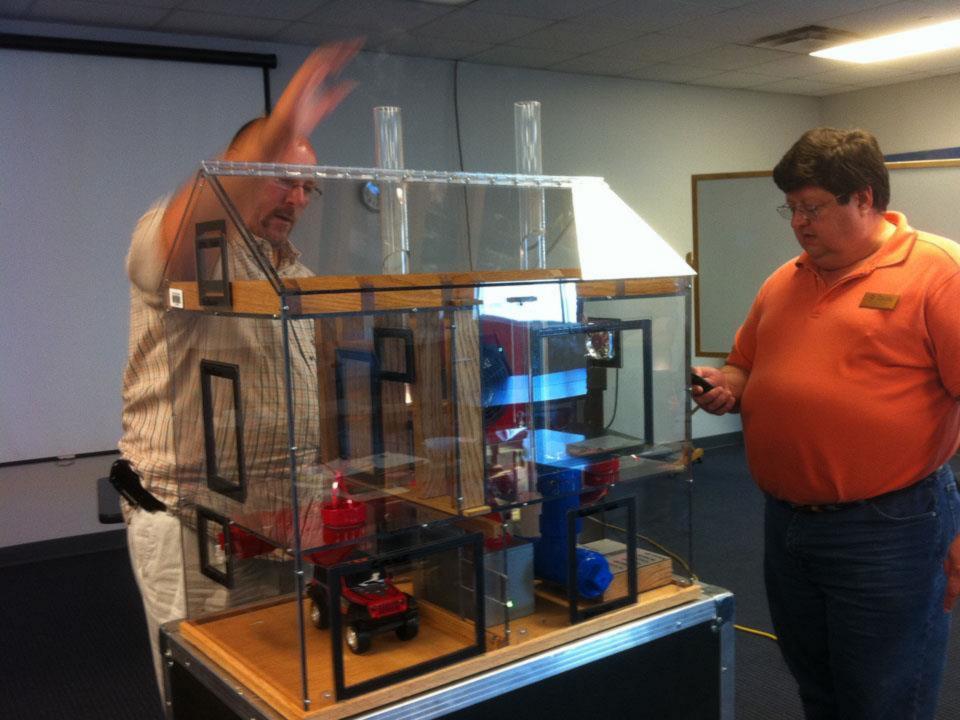




PTC Classes and Training

Followed with:

- BPI
- Wrightsoft
- Energy Raters
- Green Advantage
- LEED Associate







Mobile Training L

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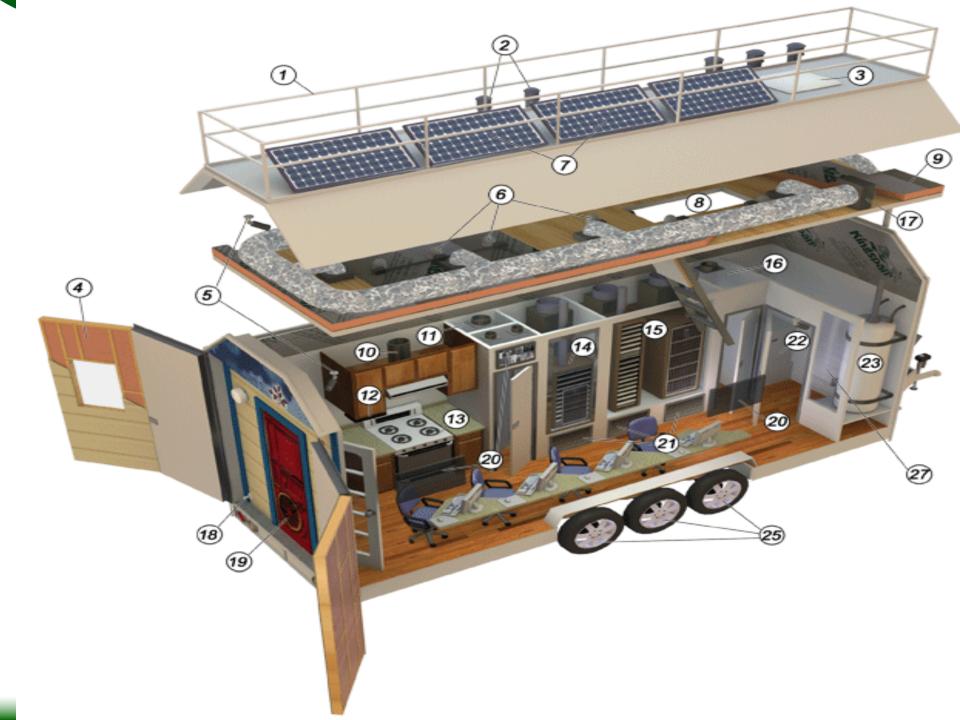
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PTC Classes and Training

Expanded to include:

- ENERGY STAR Homes
- Builders
- HVAC
- Architects
- Realtors
- 2003 and 2009 IECC code

Building Design and Practices What's not changed in 25 years

- Duct leakage
- Oversizing HVAC
- Returns too few and undersized
- Attic knee walls open to the attic
- Framing inefficiencies
- Leaky thermal envelope

Arkansas Energy Code

- 2003 IECC
- 2004 Removed window requirements.
- No Enforcement
- 16 municipalities adopted it
- 2011 Amended. Must adopt and enforce or say why not
- 2009 IECC planned for 2014

Municipality Initiatives

2011

• LR Sustainability Commission recommended 2009 IECC adoption with HERS ratings. Stalled.

2012

- NLR moved towards adoption of 2009 IECC with HERS ratings. Timed out.
- Metroplan championed 3-county adoption. Stalled.
- 2012 Fayetteville adopted the 2009 IECC requiring energy ratings.

State Energy Office Initiatives

2012

 Series of code training classes around the state for code officials and builders through HBA and PTC and NWACC.

2013

- Convened first Code Stakeholder Advisory Board meeting to consider amendments and get support.
- Confirmed 2013 (or sooner) adoption
- Another round of training planned.
- Clear two Legislature subcommittee hurdles

Pulaski Tech's Role

2013

- Continue to expand training
- Participate on Code Stakeholder Advisory Board
- Support the Energy Office
- Offer code-related training.
- Develop DET verifier training
- Expand training to appraisers and others
- Win the minds of the deniers

Barriers

2009 IECC Code Implementation

- It's a code
- Added cost (prescriptive)
 - \$1,086 Zone 3
 - \$1,690 Zone 4
 - Positive cash flow in year 2-3
- Education
- Enforcement

2009 IECC: Three compliance paths

- Prescriptive code plus duct testing and envelope leakage test or checklist
- RESCheck U/A tradeoffs code plus duct testing and envelope leakage test or checklist
- **Performance**: A HERS Energy Rating report
 - Equals or exceeds the prescriptive code reference home based on the overall U/A or annual \$/cost.
 - Most flexible

Success Requires System Thinking!



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We Ignore the Cost of Energy From Design to Default





Appraisal

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The Housing Industry is a system, too...or could be.

- Architects
- Builders and Trades
- Real Estate Agents
- Appraisers
- Lenders
- Mortgage insurers
- Code officials
- Utilities

Next

- Expand 2009 IECC early adopters
- Green Multilist
- Expand training to builder subs
- Expand network of energy raters statewide
- Add appraiser CE this year
- Add DET Verifier Training
- Electric Coop Member Services
- Expanded EIM package

2009 IECC The Perfect Storm?

- Governor's Energy Plan: 2009 IECC and Energy labeling
- ARRA Mandate
- Training capacity
- Utility Programs
- PACE and SAVE legislation

Lessons learned

- Involve all the stakeholders. The energy code is not an issue just for builders.
- Building science can be fun. Everyone lives n a house.
- Don't spend resources educating the public.
 Educate the people in the housing industry the public meets.

Parting thoughts

You don't get what you expect, you get what you inspect.

It's OK to look back, but don't stare.



Thank you.



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