



PENN RESIDENTIAL
ENERGY CODES

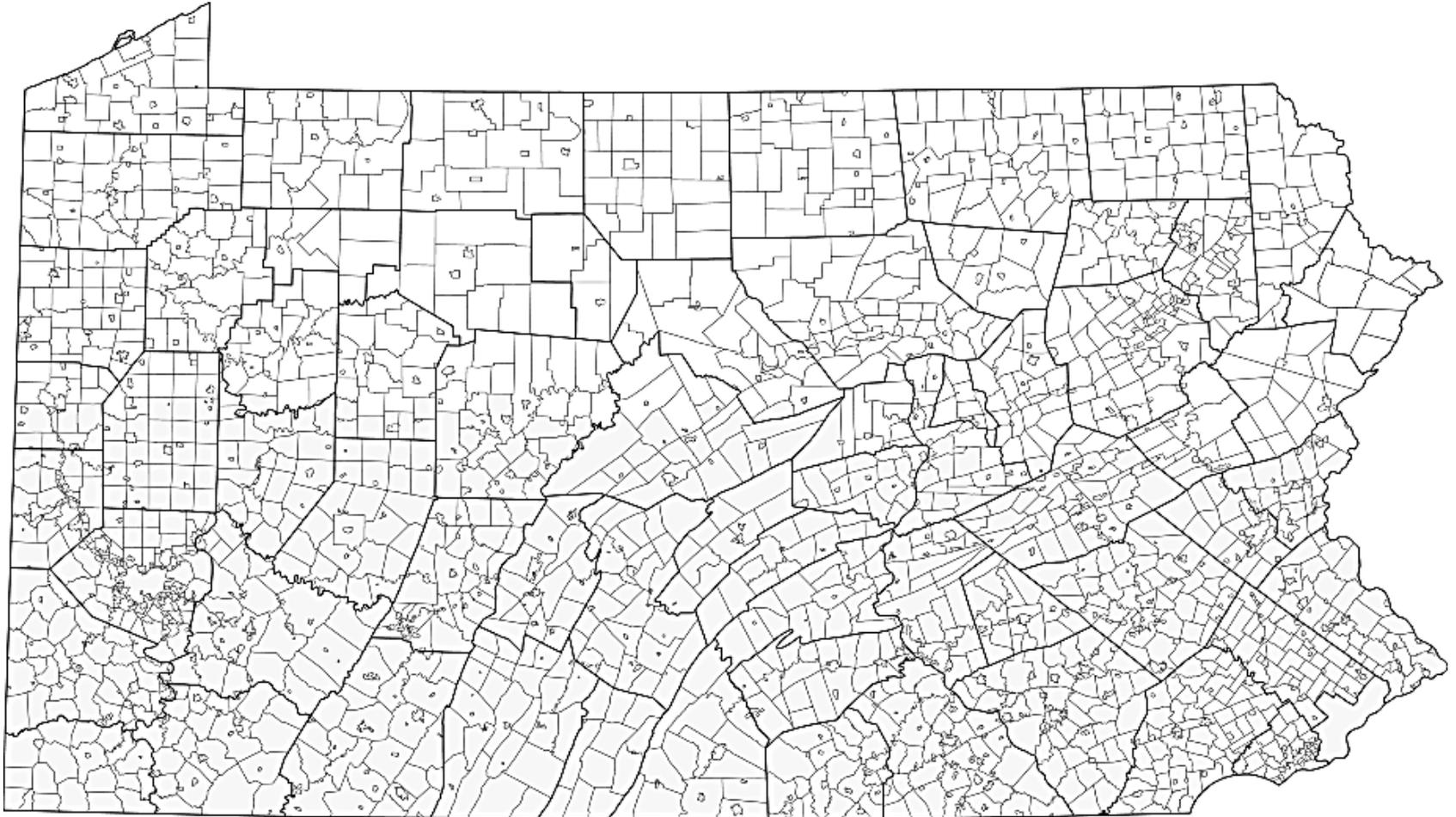
Empowering An Energy Efficient
Pennsylvania

Market-Based Approaches to Increase Energy Code Compliance in Pennsylvania



Funded by the U.S. Department of Energy

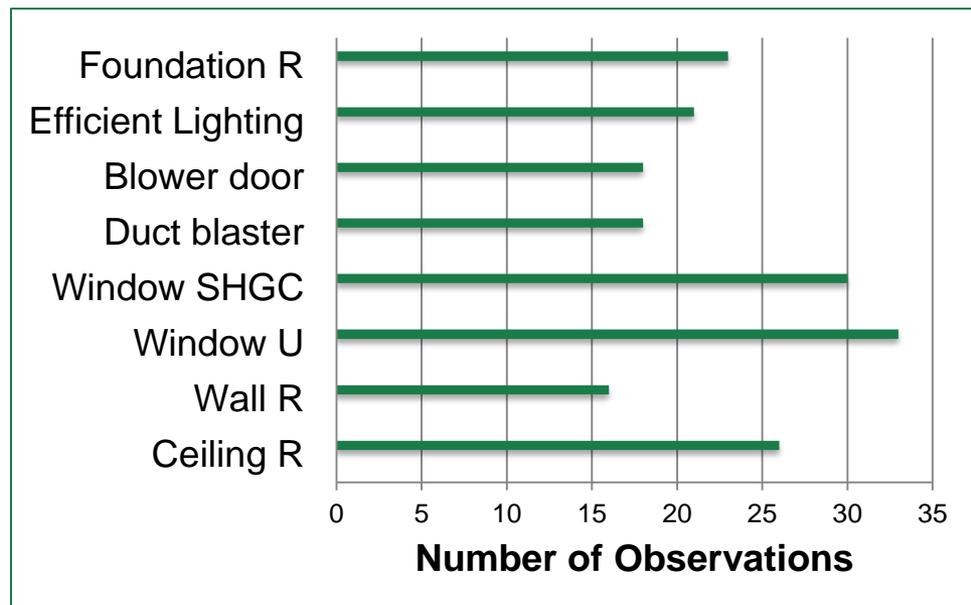




2,562 local municipalities



- Sample created: 45 municipalities
- Permit data collected: 75%
- Key items observed: 25%

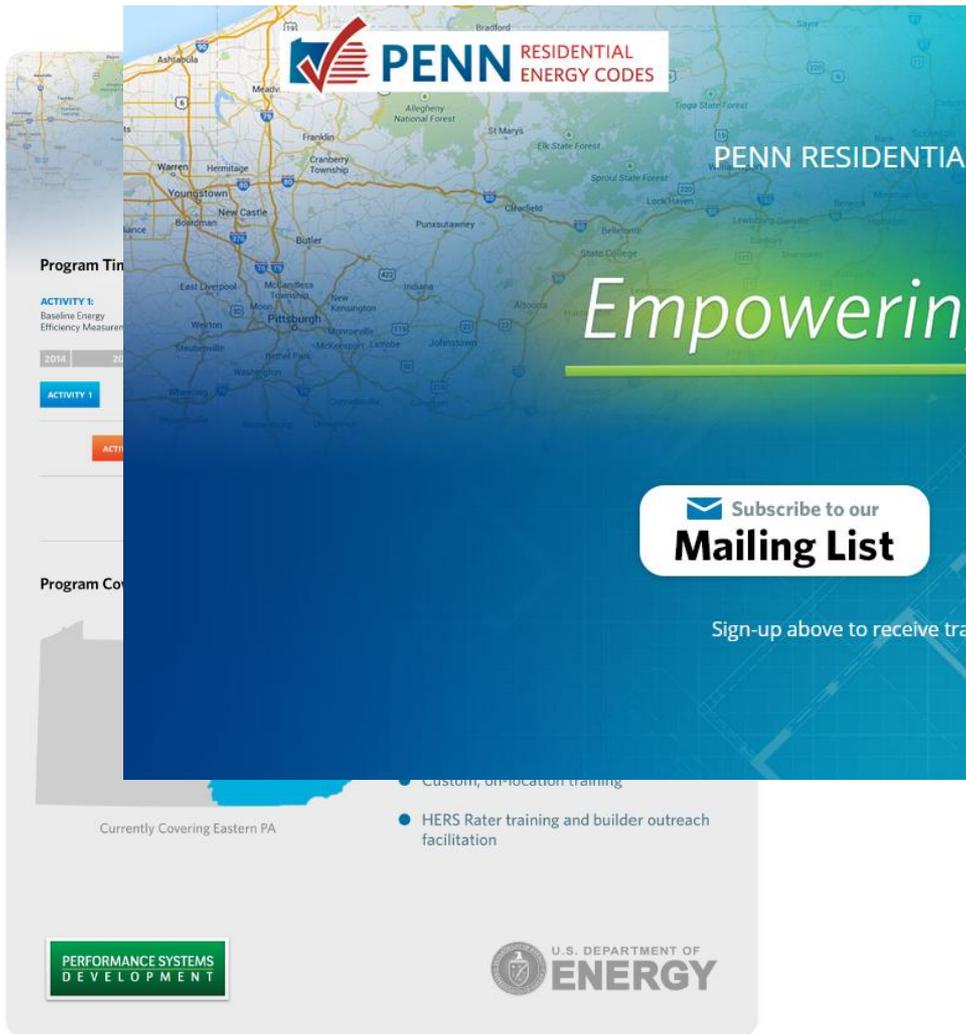


- Blower door tests generally under 7 ACH50
- Duct leakage tests – leakage relatively high
- Duct boots not sealed to subfloor/drywall
- Recessed lights not sealed to finished surface

- **Challenge:** Obtaining permit data
- **Solution:** Pennsylvania Right to Know Law

- **Challenge:** Builder recruitment
- **Solution:** Higher success rate with field staff vs. phone

- **Challenge:** Field data collection
- **Solution:** Customization of data collection tool



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Empowering

Subscribe to our **Mailing List**

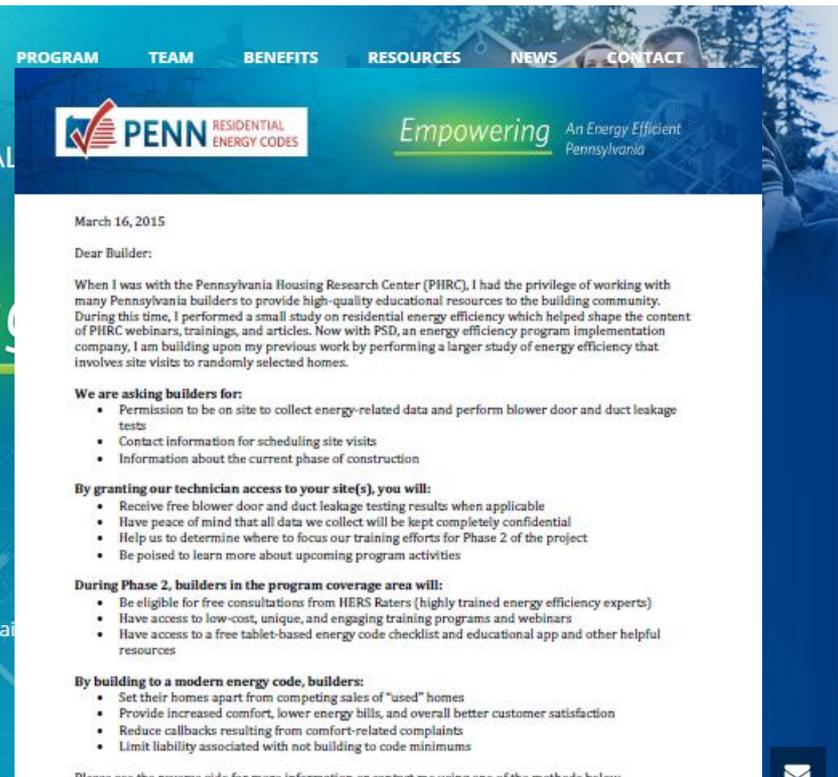
Sign-up above to receive training

- Custom, on-location training
- HERS Rater training and builder outreach facilitation

Currently Covering Eastern PA

PERFORMANCE SYSTEMS DEVELOPMENT

U.S. DEPARTMENT OF ENERGY



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Empowering An Energy Efficient Pennsylvania

PROGRAM TEAM BENEFITS RESOURCES NEWS CONTACT

March 16, 2015

Dear Builder:

When I was with the Pennsylvania Housing Research Center (PHRC), I had the privilege of working with many Pennsylvania builders to provide high-quality educational resources to the building community. During this time, I performed a small study on residential energy efficiency which helped shape the content of PHRC webinars, trainings, and articles. Now with PSD, an energy efficiency program implementation company, I am building upon my previous work by performing a larger study of energy efficiency that involves site visits to randomly selected homes.

We are asking builders for:

- Permission to be on site to collect energy-related data and perform blower door and duct leakage tests
- Contact information for scheduling site visits
- Information about the current phase of construction

By granting our technician access to your site(s), you will:

- Receive free blower door and duct leakage testing results when applicable
- Have peace of mind that all data we collect will be kept completely confidential
- Help us to determine where to focus our training efforts for Phase 2 of the project
- Be poised to learn more about upcoming program activities

During Phase 2, builders in the program coverage area will:

- Be eligible for free consultations from HERS Raters (highly trained energy efficiency experts)
- Have access to low-cost, unique, and engaging training programs and webinars
- Have access to a free tablet-based energy code checklist and educational app and other helpful resources

By building to a modern energy code, builders:

- Set their homes apart from competing sales of "used" homes
- Provide increased comfort, lower energy bills, and overall better customer satisfaction
- Reduce callbacks resulting from comfort-related complaints
- Limit liability associated with not building to code minimums

Please see the reverse side for more information or contact me using one of the methods below.

Sincerely,

Mike Turns

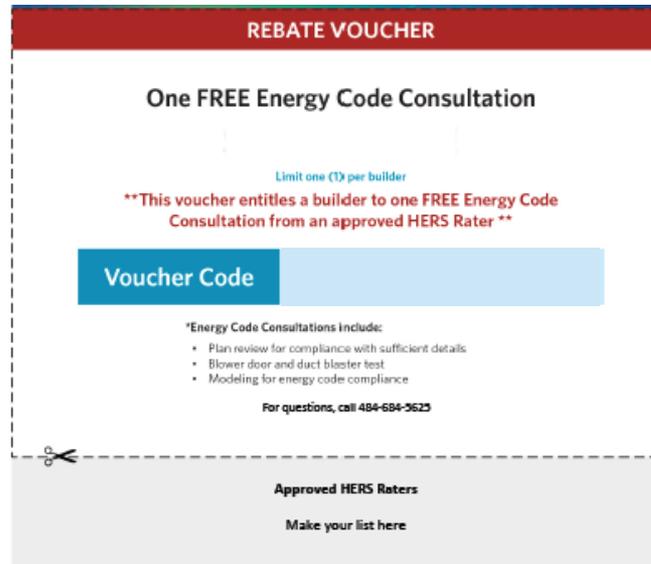
Senior Program Manager
Performance Systems Development
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Philadelphia, PA 19118

Training, Education, and Outreach

1. Stakeholder meetings (industry and utility)
2. Builder consultations by HERS Raters
3. Technical assistance to municipalities (circuit riders)
4. Tablet-based compliance documentation/educational tool
5. Classroom training and webinars
6. Refine training messaging and content

Builder consultations by HERS Raters

- Create connections in marketplace
- Deploy raters to give free Energy Code Consultations to builders



REBATE VOUCHER

One FREE Energy Code Consultation

Limit one (1) per builder

****This voucher entitles a builder to one FREE Energy Code Consultation from an approved HERS Rater ****

Voucher Code [Redacted]

*Energy Code Consultations include:

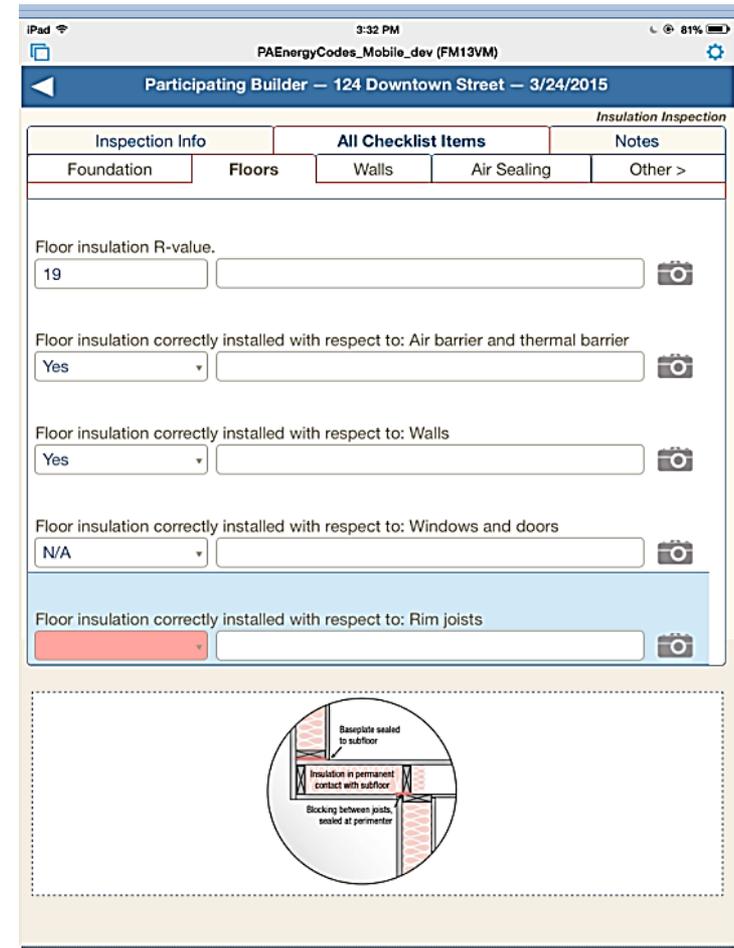
- Plan review for compliance with sufficient details
- Blower door and duct blaster test
- Modeling for energy code compliance

For questions, call 484-684-5625

Approved HERS Raters

Make your list here

- **Name:** E-code Assistant
- **Tool:** Tablet-based, interactive inspection checklist
- **Intended audience:** Energy code inspectors, project managers
- **Goals:**
 - Engage code officials with links to videos, photos, construction details
 - Create useful tool for code officials to document compliance – email reports with notes and photos
 - Test uptake by code officials
- Create buzz for program and app with free iPad offer (20)



iPad 3:32 PM 81%

PAEnergyCodes_Mobile_dev (FM13VM)

Participating Builder — 124 Downtown Street — 3/24/2015

Insulation Inspection

Inspection Info		All Checklist Items		Notes
Foundation	Floors	Walls	Air Sealing	Other >
Floor insulation R-value.				
19				
Floor insulation correctly installed with respect to: Air barrier and thermal barrier				
Yes				
Floor insulation correctly installed with respect to: Walls				
Yes				
Floor insulation correctly installed with respect to: Windows and doors				
N/A				
Floor insulation correctly installed with respect to: Rim joists				

Diagram labels:

- Basesite sealed to subfloor
- Insulation in permanent contact with subfloor
- Blocking between joists, sealed at perimeter