

ENERGY.GOV

Office of  
ENERGY EFFICIENCY &  
RENEWABLE ENERGY

## Building Technologies Office

December 18, 2018

### **RESIDENTIAL ENERGY DISPATCH**

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#### **Low-Cost Peel-and-Stick Wireless Sensors: From Prototype Development to Field Testing**

DOE's Building Technologies Office (BTO) and Oak Ridge National Laboratory have developed a novel package of low-cost, peel-and-stick wireless sensors. Testing of the manufactured sensors began this past fall by two different partners at their test facilities and in real, occupied buildings.

Learn more [here](#).

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#### **JUMP into STEM Online Crowdsourcing Round 3 Challenge Opens**

[JUMP into STEM](#) (Science, Technology, Engineering and Math) is an online crowdsourcing platform from [Oak Ridge National Laboratory](#) and the [National Renewable Energy Laboratory](#). They are now taking submissions from students to design a residential building wall upgrade.

Visit the JUMP into STEM online platform for more information [here](#).

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#### **New Certification Program for Energy-Efficient Window Attachments**

In 2018, the Attachments Energy Ratings Council (AERC) launched a [DOE Building Technologies Office](#)-funded rating and certification program for residential window attachments (interior and exterior blinds, shades, and storm windows) to provide consumers and utilities with credible, relevant, and comparable energy performance information.

Learn more about AERC, window attachments, and opportunities for retrofit and utility programs [here](#), or contact [info@aerc.org](mailto:info@aerc.org).

#### **Contents:**

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#### **Upcoming Events**

February 11-12  
[Home Performance Coalition Northwest Regional Conference](#)

February 20-22  
[Midwest Energy Efficiency Alliance Midwest Energy Solutions Conference](#)

February 25-27  
[Residential Energy Services Network 2019 Conference](#)

April 8-9

## New HPXML Developer Tools and Implementation Guide Released

The [DOE Home Upgrade Program Accelerator](#), in cooperation with the Home Performance Coalition and the Home Performance Extensible Markup Language (HPXML) Working Group, introduced [new online tools](#) for software developers and an HPXML implementation guide to simplify data aggregation and analysis to reduce contractor costs in home performance programs.

View the HPXML website [here](#).

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## New MEEA Toolkit on Residential HVAC Quality Installation and Quality Maintenance

[Better Buildings Residential Network](#) member the [Midwest Energy Efficiency Alliance](#) (MEEA) launched a toolkit that highlights research and tools within the HVAC quality installation (QI) and quality maintenance (QM) space that can be used to integrate best practices into existing efficiency program offerings.

The toolkit was created to accompany MEEA's QI/QM Implementation Guide, both of which can be viewed [here](#).

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## Partner Recognition

[Better Buildings Residential Network](#) Member [Efficiency Maine](#) completed 9,310 home energy upgrades during the 2017 fiscal year, saving 79,600 MMBtu and 12,696,791 kWh. Thanks to Efficiency Maine and all the other Network Members for their great work!

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## Resource Toolbox



[Building America Residential Case Study: Effect of Ducted Heat Pump Water Heaters on Space Conditioning and Water Heating Energy Use -- Central Florida Lab Homes](#)

[Building America Residential Case Study: High-Velocity Small-Diameter Duct System -- Pittsburgh, PA](#)

[Putting Data to Work: Impact Assessment to Estimate the Savings from Energy Efficiency Programs](#), Institute for Market Transformation

[South-Central Partnership for Energy Efficiency as a Resource 2019 Clean Energy Exchange](#)

September 10-14  
[CEDIA Expo](#)

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## Peer Exchange Calls

January 10, 2019  
[Residential Energy Efficiency - Looking Ahead in 2019](#)

January 24  
[Resiliency in the Face of Disaster: Energy Efficiency's Role](#)

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## Peer Exchange Call Summaries

All summaries can be found at the [BBRN Peer Exchange Call Summary webpage](#). The most recent Peer Exchange Call summaries posted are:

October 25  
[Horror Stories from the Field](#)

September 27  
[Back to School: Building Science Training](#)

September 13  
[The Fruit\(s\) of Your Labor\(s\) Day: Workforce Development](#)

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## Quick Quiz

According to the [U.S. Department of Energy](#), how much energy savings can be delivered to a home by increasing insulation and reducing air leaks?

- A. Up to 10%
- B. Up to 20%
- C. Up to 30%
- D. Up to 40%

The answer is up to 20%.

[New Scout Web Application Estimates Impacts of Efficient Technologies on Building Energy Savings and Operating Costs](#), DOE Building Technologies Office

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