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U.S. DEPARTMENT OF  
**ENERGY** | Office of ENERGY EFFICIENCY  
& RENEWABLE ENERGY

## Building Technologies Office

### Residential Energy Dispatch: September 2024

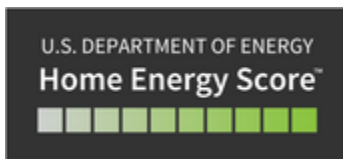
#### Now Available: New Tools to Help with the Selection and Installation of Heat Pumps and Heat Pump Water Heaters

New web-based tools for selection and installation of [cold-climate heat pumps](#) (CCHPs) and [heat pump water heaters](#) (HPWHs) are now publicly available. These tools were developed by the Pacific Northwest National Laboratory (PNNL) with funding from DOE's Building Technologies Office.



[Check out the Decision Tools](#)

#### Home Energy Score Hits 250,000 Scores and is Referenced in BPI-2400 Update



More than 250,000 [Home Energy Scores](#) have been issued, and with upcoming capabilities to include multifamily and manufactured housing, that number is expected to grow.

Home Energy Score is included in [Annex E of BPI-2400](#) as an example of an alternative compliance pathway for customers with insufficient utility bill data. It can also be used to meet the residential Revolving Loan Fund audit requirements.

[Read the full article](#)

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## Register for the 2025 Solar Decathlon Design Challenge

Sign up with your collegiate team to design a zero energy building and compete for a chance to participate in the final competition event at the National Renewable Energy Laboratory (NREL) in Golden, Colorado, April 25-27, 2025.



[Learn More and Register for the Solar Decathlon](#)

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## The U.S. Department of Energy 2024 Housing Innovation Award Winners



The DOE Housing Innovation Awards honor builders who are spurring the housing industry to construct more efficient, healthy, and resilient homes certified to the DOE Zero Energy Ready Homes (ZERH) program requirements. Award-winning homes are featured in the [Tour of Zero](#) on the ZERH website.

The [2024 Housing Innovation Award winners](#) will be honored at the Energy & Environmental Building Alliance's High Performance Home Building Summit in Salt Lake City, Utah, Oct. 1-3, 2024.

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## Building America Shifts Focus to Tackle Residential Retrofit Challenges



For 30 years, the U.S. Department of Energy (DOE)'s Building America program has leveraged cutting-edge building science research to develop innovations and best practices in energy efficiency, indoor air quality and comfort, durability, and affordability, focusing on residential new construction. Building America is now expanding its expertise to address challenges with decarbonizing the existing U.S. housing stock.

[Read more about the Building America Retrofit Solutions Team](#)

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## **Newly Published! Aerosol Envelope Sealing of Existing Residences**

Addressing complexities surrounding air-sealing methods, the Center for Energy and Environment identified a possible solution to seal existing homes more efficiently—and at a reasonable cost. [Learn more about the testing](#) that saw an average leak reduction of 47%.

For more construction tips and news, visit the [Building America Solution Center](#)—a trusted source for residential building science from the nation’s leading experts.

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## **BETTER BUILDINGS RESIDENTIAL NETWORK**

### **Partner Recognition**

The Better Buildings Residential Network welcomes its newest members: [Arkansas Home Report Inspections, LLC](#), [Gradient](#), [Montana Department of Environmental Quality \(DEQ\)](#), [Preservation of Affordable Housing](#), [Qcells](#), and [Zero Homes](#).

**Interested in becoming a member?** [Join the Residential Network!](#)

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### **Upcoming Peer Exchange Calls**

**Thursday, September 26, 2024**

[The Latest in Educating Homeowners on the Benefits of Energy Efficiency](#)

**Thursday, October 10, 2024**

[Successful Strategies for Better Insulating](#)

**Thursday, October 24, 2024**

[To be announced](#)

**Missed a call or want to review a speaker presentation?** All summaries for past calls can be found on our [Peer Exchange Call Summary webpage](#).

[Subscribe for the latest updates](#)

**Questions or concerns?** [Email Us](#)

### Resource Toolbox

[Better Buildings Residential Program Guide](#), U.S. DOE; a repository of lessons learned, resources, and knowledge from across the country.

[Building Science Solution Center](#), U.S. DOE; information on hundreds of high-performance construction topics.



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