

Building Technologies Office

January 26, 2022

RESIDENTIAL ENERGY DISPATCH**U.S. Announces New Climate Efforts at U.N.**

DOE Secretary Granholm announced multiple new climate initiatives at the recent U.N. Climate Change Conference (COP26), including the Net Zero World Initiative and Better Climate Challenge.

The [Net Zero World Initiative](#) brings together countries working to implement their climate ambition pledges and accelerate transitions to net zero, resilient, and inclusive energy systems.

The [Better Climate Challenge](#) is a partnership between organizations and DOE to reduce portfolio-wide greenhouse gas (GHG) emissions by at least 50% within 10 years. DOE will provide technical assistance and opportunities to learn and share actionable best practices for carbon reduction.

**DOE Recognizes Zero Energy Ready Home Leaders**

Secretary Granholm [recognized America's best builders of "zero energy ready" homes](#) during the annual U.S. DOE [Housing Innovation Awards Ceremony](#). Watch [Secretary Granholm's remarks](#) and learn how these high-performance homes are so energy-efficient.

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**JOIN THE BETTER BUILDINGS
RESIDENTIAL NETWORK**

Upcoming [Better Buildings Residential Network](#) Peer Exchange Calls

Thursday, January 27, 2022
[Smart Diagnostics - New Advances in the Efficiency Field](#)

Thursday, February 10, 2022
[Secrets from the Most Successful Residential Efficiency Programs](#)

Thursday, February 27, 2022
[It's Not About Energy, It's About Comfort - Addressing the Reality](#)



[Comfort Systems Road Map: A Plug-and-Play Residential Duct System](#)

Rheia, a new company that grew out of research funded in part by the Department of Energy's Building America Program—is partnering with some of the country's top home builders to demonstrate a patent-pending "plug-and-play" air duct system. Read how strategic Building America research helped create an innovative, market-ready HVAC solution for heating and cooling ducts inside conditioned spaces.



[Indoor Air Quality Road Map: A Smart Range Hood](#)

In 2022, manufacturer Broan-NuTone will begin producing the first commercially available "smart" range hood to improve indoor air quality, energy efficiency, and occupant health. Programmed with pollutant-monitoring sensors, the range hood's fan automatically turns on when cooking activity is detected and switches off once pollutants have returned to acceptable levels.

Read how DOE Building America's research has resulted in an [Indoor Air Quality Road Map: A Smart Range Hood, and commercialization plans for 2022.](#)



New Smart Tools for Efficient HVAC Performance (STEP) Campaign Case Study

A new case study by DOE and PNNL summarizes the business case for adopting smart diagnostic tools and the experiences of three HVAC contractors who have successfully integrated these tools into their business practices.

The Residential Smart Tools for Efficient HVAC Performance (STEP) Campaign supports the use of wirelessly connected smart diagnostic tools that can help

Peer Exchange Call Summaries

All summaries – which contain speaker PowerPoint presentations, including the most recent ones noted below, can be found at the [Better Buildings Residential Network Peer Exchange Call Summary webpage:](#)

Thursday, December 9
[Heat Pumps at Scale, the Game Changer - Where Are We Now, and What Will It Take?](#)

Thursday, November 18
[Overcoming Homeowner Lack of Efficiency Knowledge?](#)

Thursday, September 23
[EMERGENCY Replacements - the Biggest Real-World Obstacle to Efficiency?](#)

Thursday, September 9
[Behavior Change, Efficiency, and Climate: What Really Happens vs. Models and Assumptions?](#)

Thursday, August 12
[The Cost of Cooling: Air Conditioning, Climate, and Health](#)

Quick Quiz

Which system in your home uses the most energy and costs the most? (Answer at bottom.)

- A. Air conditioning
- B. Lighting
- C. Space heating
- D. Water heating

determine whether air source heat pumps, central air conditioners, and other residential HVAC equipment are installed and/or operating correctly.

Learn more about the campaign [here](#).

Partner Recognition

The [Better Buildings Residential Network](#) welcomes its newest members: Atlanta Health and Safety, Sun Plans, Inc., Positive Energy of North Carolina, and Wellswell!

If your organization is not yet a member click [here](#) to join.

Resource Toolbox



- [Health + Home Performance Infographic](#), U.S. Department of Energy
- [Eight Tips for Keeping a Healthy Home](#), U.S. Department of Housing and Urban Development - Office of Lead Hazard Control and Healthy Homes
- [E3 Initiative - A Buildings Initiative focused on better energy, emissions, and equity Fact Sheet](#), U.S. Department of Energy
- [Advanced Water Heating Initiative Fact Sheet](#), New Buildings Institute
- [Fostering Equity Through Community-Led Clean Energy Strategies](#), American Council for an Energy-Efficient Economy

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Quiz Answer: c) [space heating](#)

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