

CASE STUDY

PARTNERS IN POWER

BUILDING BETTER FROM THE GROUND UP

2023-2025 High-Performance Homes Pilot



Project overview

High-performance homes go beyond minimum code requirements to deliver improved comfort, efficiency and durability. Partnering with select builders, raters and contractors, our High-Performance Homes Pilot provided eight real-world examples to showcase the benefits and marketability of these homes to builders and potential homebuyers.

✓ Just the facts

8

High-performance
homes built

\$1,016

Average estimated
first-year savings

46

Average HERS®
Index Score

\$176

Average
monthly bill

Go above and beyond code.

Each home in our High-Performance Homes Pilot included:

- A tight, well-insulated building envelope to control heat, air and moisture
- High-efficiency heating and cooling systems, including heat pumps and heat pump water heaters
- Balanced mechanical ventilation to deliver consistent, filtered fresh air
- Smart layouts and construction details, such as ductwork inside the thermal boundary and solar-ready design

Level up your efficiency.

New homes can be built to meet increasing levels of efficiency standards, including:

1. **ENERGY STAR®** certified homes are 10%-20% more efficient than homes built to code.
2. **Zero Energy Ready Homes** are even more efficient and offer better indoor air quality and water conservation. Most of the homes in our pilot were built to this standard.
3. **Passive Homes** are generally the most energy-efficient homes available without solar.
4. **Net Zero Homes** add enough renewable power to zero out annual energy costs.



“Energy-efficient homes are environmentally friendly, enjoy higher resale values and save their owners anywhere from \$200 to \$400 annually in energy costs.”

— The Residential Energy Network (RESNET®)



Shopping for a new home?

Visit our New Homes Program page to discover more or connect with our current builder partners. Questions? Reach out to our New Homes team at **844-567-2236**.



PPL Electric Utilities



A GROUNDBREAKING PILOT

High performance means overcoming high barriers.

Despite the clear benefits of high-performance homes, builders face many financial and market barriers. These include under-educated buyers, a lack of experienced construction workers and an unclear understanding of building science or certification benefits.

To help, the pilot granted participating builders up to \$20,000 per home, allowing them to experiment and gain hands-on expertise in technologies they don't normally use. The pilot also included webinars, home tours and additional engagement to raise awareness and educate potential homebuyers and builders.

Special thanks to our participating builders:

- Alden Homes
- Hutch Homes
- McNaughton Homes
- R. W. Buff Construction
- Susquehanna Valley Builders

The possibilities are building.

The High Performance Homes Pilot demonstrates how building smarter from the start can create homes that perform better for decades to come. Whether you're building, buying or planning, we can help you make your next move with confidence.

"I live in a high-efficiency home... it's an all-electric home. It provides greater comfort and better indoor air quality, but it also provides annual savings on operating costs that last in perpetuity."

— Mark McNaughton,
participating builder



Let us help you build better.

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The costs of energy efficiency programs are recovered through customer rates in accordance with Pennsylvania Act 129 of 2008. PPL Electric Utilities assumes no responsibility for the performance of the equipment or equipment warranty, the quality of the work, labor and/or materials supplied, and/or the acts or omissions of any contractor.



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