

High Performance Homes and DOW POWERHOUSE™ offer energy innovations to today's homeowner.



DOW POWERHOUSE™ Solar Shingles **help deliver high-performance energy efficiency at the top 1% of the nation.**

High Performance Homes (HPH) constructs new production and custom residential DOE Zero Energy Ready Homes in the Mid-Atlantic region and is the proud winner of the DOE's 2015 Housing Innovation Award.

HPH turned to Dow and its POWERHOUSE™ Solar Shingles technology as the clean, renewable electricity solution, building homes that are in the **top 1% of the nation for quality and energy efficiency.**

Case Study: HPH and Dow take energy efficiency and affordability to new heights.

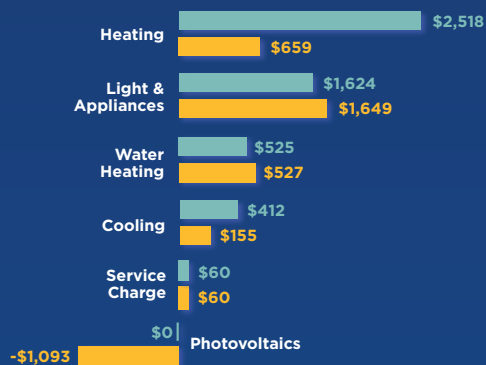
- HPH is the only builder in Pennsylvania to exclusively focus on high-performance homes, meeting ENERGY STAR, EPA Indoor airPLUS, Department of Energy (DOE) Zero Energy Ready Home and National Green Building Standard requirements.
- HPH are the homes of the future because they combine the best technologies under one roof, offering homeowners outstanding levels of energy savings, comfort, health and durability with incredibly low or no energy costs.
- Designed with a comprehensive package of high-performance building technologies, all High Performance Homes are seamlessly integrated to include DOW POWERHOUSE™ Solar Shingles, tight building envelopes built with structurally insulated panels, geothermal heating and cooling systems, energy-efficient appliances and advanced indoor air quality systems that are at least 40%-50% more energy efficient than the typical new home.
- A smart home technology package is also included in all of the homes, enabling energy monitoring and complete heating, ventilating and air conditioning control, as well as remote control of lighting, thermostats and security from any smart device.
- From the moment they're installed, POWERHOUSE™ Solar Shingles offer exceptional quality and durability while generating power and savings for homeowners.

The HPH model home redefines the standards for quality and energy efficiency.

High Performance Homes is redefining what it means to live the American Dream with its state-of-the-art homes. Combining revolutionary Zero Energy Ready technology, meticulous craftsmanship and impeccable luxury designs, High Performance Homes is meeting the growing market demand for quality constructed, high-tech, ultra-energy-efficient luxury homes. Offering 300 buildable lots located in the world-class golf course community, The Links at Gettysburg in Pennsylvania, as well as custom homes in the Mid-Atlantic, High Performance Homes is uniquely qualified to build the home of your dreams. Visit hphpa.com to learn more.



ANNUAL ENERGY COST



2009 IECC TOTAL: \$5,139
AS DESIGNED TOTAL: \$1,957

Based on the HERS Home Report, this home will save approximately \$4K in the first year of ownership, \$50K over 10 years of ownership and \$200K over 25 years of ownership. When you add the upfront incentives for investing in renewable energy, the system will save a homeowner more than \$70K in the first 10 years of ownership alone.

ENERGY SAVINGS

Based on the HERS Home Report this home will save approximately:

- **\$4,000** In the first year
- **\$50,000** Over 10 years
- **\$200,000** Over 25 years*

When you add the upfront incentives for investing in renewable energy the system will save a homeowner more than \$70K in the first 10 years of ownership!

YEARLY POLLUTION REDUCTION

Carbon Dioxide (CO₂) **16.0 tons/yr**

• Equivalent to annual emissions from 3.1 passenger vehicles.

Sulfur Dioxide (SO₂) **161.9 lbs/yr**

Nitrogen Oxides (NO_x) **31.0 lbs/yr**

This home's air filtering system filters out 99.7 percent of harmful airborne contaminants. Effective against dust, pollen, viruses, bacteria, mold, cigarette smoke, odors, volatile organic compounds (VOCs) and allergens.

For more information about HPH homes, visit hphpa.com
 Learn about DOW POWERHOUSE™ at **855-DOW-SOLAR (855.369.7657)** or visit dowpowerhouse.com/professionals



*Annual savings calculations over time include an annual electricity cost increase of 5.5%. The US national average increase of energy cost over the past 30 years is 7.5% per the Energy Information Agency (eia.gov).