



McNaughton Homes (mcnaughtonhomes.com)

General Information

Location	Mechanicsburg, PA
Layout	2 story, 4 bedrooms, 2.5 baths
HERS® Index Score	41
Estimated Monthly Bill	\$175
Estimated First-Year Savings (compared to Code Home)	\$600

Key features — Outdoors:

- 1. Solar Ready:** The Zero Energy Ready Home certification means that the house is “ready” for solar. First, you need a minimum amount of roof space that isn’t shaded, or broken up by things like dormers, chimneys or plumbing vents. This house has plenty of southeast and southwest facing roof space for mounting solar electric panels. There’s also a conduit that runs from the attic to the electrical panel in the basement where there is ample space for mounting a PV inverter or a backup battery. This house is “ready” for solar.
- 2. Continuous Insulation:** Most houses have only cavity insulation. This is insulation between the wall studs or between the attic joists. This insulation is great when installed well, but it doesn’t stop heat loss or gain through the framing. This house has ZIP System R-Sheathing covering the entire home. It provides continuous insulation covering all the wood framing. The green color is the product’s water-resistant layer. Taping all the seams creates a relatively airtight shell before any of the interior sealing is done.

Learn more:

Visit ppl electric.com/performancepilot for more information.

Estimated bill and savings based on expected appliance usage in energy-efficient model home. PPL Electric Utilities and their partnering suppliers make no guarantee of usage, costs or savings and are not responsible for any variation in actual usage, costs or savings from this estimate.

Energy Contractors

Rater	TopBuild Home Services topbuild.com
Mechanical	Central Penn Plumbing Service, Inc. centralpennplumbing.com
Air Sealing	American Hungerford Building Products truteam.com/branches/pa/mechanicsburg/685





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Key features — Main Bedroom:

- 3. Advanced Framing:** Looking around the house now, all you see is walls, windows, doors and trim work. Behind the Sheetrock, there is a world of details that you'll never see – a world of high-performance framing. Better framing creates more room for insulation. This includes raising the roof 10" above the outside walls. The space between rafters is covered with attic baffles that are foamed in place so that outside air moves over the insulation, not through the insulation.
- 4. Better Windows:** The .25 U value (R4) windows are a 30% step up from the regular contractor-grade windows and provide much greater comfort. All window and door frames are air sealed, and the sheetrock is made airtight by using a liquid gasket applied to the framing.



Key features — Basement:

- 5. Ventilation:** The Energy Recovery Ventilator (ERV) brings fresh air into the house and exhausts all the stale and polluted air you don't want. This is very important for very tight homes. It's all about controlling the movement of air, heat and moisture.
- 6. Heat Pump:** The high-efficiency heat pump provides year-round comfort, even in the coldest winters. Heat pump technology has come a long way in the last 20 years.
- 7. Heat Pump Water Heater:** This is the most efficient way to heat water with electricity — all the benefits of a tank water heater with the efficiency of an advanced heat pump. **The cool, dry exhaust air is blown outdoors in the winter and into the basement in the summer for free air conditioning.**



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