



High Performance Homes

Rose Acres | Westminster, MD | hphpa.com



Photos courtesy of High Performance Homes

“The home effortlessly maintains even temperatures throughout, while delivering super clean air.” *Home owner*



PROJECT DATA

- **Layout:** 6 bdrm, 3 bath, 1.5 fl + bsmt, 4,270 ft²
- **Climate:** IECC 4A, mixed-humid
- **Completed:** April 2017
- **Category:** custom for buyer

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 35; with PV 14
- **Annual Energy Costs:** without PV \$1,300; with PV \$600
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$1,650, with PV \$2,350
- **Annual Energy Savings:** without PV 18,500 kWh; with PV 26,300 kWh
- **Savings in the First 30 Years:** \$104,000

KEY FEATURES

- **Walls:** R-23 6.5" SIPs; house wrap; stone and vinyl siding; 4.5" SIPs; 1" closed-cell spray foam + R-19 batt at rim joists. All joints caulked.
- **Roof:** Asphalt shingles, 15# felt; all eaves, gables, and valleys have ice-and-water shield; kick-out flashing; 5" sidewall flashing.
- **Attic:** Vented attic, 1" closed-cell foam sprayed on ceiling deck + R-49 blown fiberglass = R-56 total.
- **Foundation:** Basement of R-21.3 insulated concrete panel walls; R-10 under slab.
- **Windows:** Double-pane, single-hung, low-e, argon-filled; U=0.24, SHGC=0.17.
- **Air Sealing:** 1.1 ACH 50.
- **Ventilation:** Controlled smart switch venting system that calculates makeup air; fresh air intake; timed exhaust.
- **HVAC:** Ground-source heat pump, 5.3 COP, 24.4 EER, 27.4 SEER; mastic-sealed ducts.
- **Hot Water:** 55-gallon desuperheater + 0.91 EF 55-gallon electric tank water heater. Push button recirculation pump.
- **Lighting:** 100% LED or CFL, all ENERGY STAR fixtures.
- **Appliances:** All ENERGY STAR.
- **Solar:** 5.94-kW PV system.
- **Water Conservation:** Low-flow fixtures; recirculation pump. Native landscaping.
- **Energy Management System:** Energy management system.
- **Other:** Low- or no-VOC products; motion-sensor garage exhaust fan; ADA accessible.

CONTACT

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