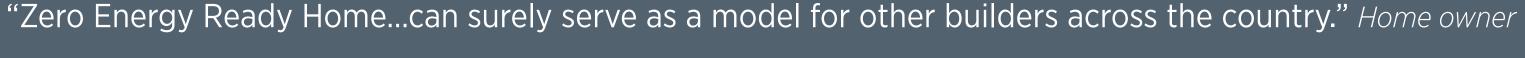


High Performance Homes

Hope for Health | Easton, MD | hphpa.com















PROJECT DATA

- **Layout:** 4 bdrm, 3.5 bath, 2 fls, 5,359 ft²
- Climate: IECC 4A, mixed-humid
- Completed: April 2019
- Category: custom for buyer

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 45; with PV 29
- Annual Energy Costs: without
 PV \$2,350; with PV \$1,500
- Annual Energy Cost Savings: (vs typical new homes) without PV \$1,500; with PV \$2,350
- Annual Energy Savings: with PV 28.00 kWh
- Savings in the First 30 Years: \$100,000

CONTACT

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KEY FEATURES

- Walls: SIPs, R-30 total: 6.5" R-23 SIP walls, 4.5" R-15 SIP rim bands sealed with 1" closed-cell spray foam and R-13 batt between the floor joists; house wrap; fiber cement siding.
- **Roof:** Gable roof; 15-lb felt, %" OSB, ice-and-water shield at eaves, valleys and gables, kick-out flashing, 5" sidewall flashing; asphalt shingles and aluminum roofing.
- Attic: Unvented attic, R-56 total: closed and open-cell spray foam, 15" raised heel trusses.
- **Foundation:** Unvented crawlspace; 8" CMU, R-15, 2" closed-cell spray foam over dirt floor and up walls and piers to plywood subfloor. Exterior covered with waterproofing, scratch coat drain plane, air space, weep holes, and brick over entire foundation.
- Windows: Double-pane, argon-filled, low-e2, vinyl single-hung frames, U=0.25, SHGC=0.27.
- Air Sealing: 1.1 ACH 50.
- Ventilation: ERV with HEPA filter, MERV 14 filter on heat pump; garage exhaust fan.
- HVAC: Air-to-water heat pump, 19.2 EER; rigid metal ducts in conditioned space.
- **Hot Water:** Ground-source heat pump 55-gal. desuperheater, 4.9 COP, 19.2 EER; backup: .93 EF electric 55-gal. tank water heater; central manifold with PEX pipe; recirc pump.
- Lighting: 100% LED, integrated lighting controls.
- **Appliances:** ENERGY STAR refrigerators and dishwasher.
- Solar: 6.5-kW PV system.
- Water Conservation: WaterSense fixtures, drip irrigation with moisture sensors.
- Energy Management System: Internet control of lighting, security, energy usage.
- Other: Wide doors/halls, curbless shower, low/no-VOCs, UV air cleaner.





