



Photos courtesy of Health-E Community Enterprises of Virginia

“The ‘Simplicity of the Build’™ allows the builder, subcontractors, superintendents, sales staff, and home buyers to understand the building concept of a ZERH, which enables us to build homes of the future today.” *Jay Epstein Builder*



## PROJECT DATA

- **Layout:** 3 bdrm, 2.5 bath, 2 fl, 2,213 ft<sup>2</sup>
- **Climate:** IECC 4A, mixed-humid
- **Completed:** November 2016
- **Category:** production

### MODELED PERFORMANCE DATA

- **HERS Index:** without PV 47, with PV 13
- **Projected Annual Energy Costs:** without PV \$1,300, with PV \$400
- **Projected Annual Energy Cost Savings:** (vs typical new homes) without PV \$1,150, with PV \$2,000
- **Annual Energy Savings:** without PV 10,700 kWh, with PV 18,100 kWh

## CONTACT

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## KEY FEATURES

- **Walls:** 2x6 24" o.c. advanced framed walls; air sealing, R-21 cellulose insulation, open-cell foam in rim bands, 3.5" foam gaskets and expandable caulk sealant at bottom plate, house wrap, vinyl siding.
- **Roof:** 25-yr shingles; ice-and-water shield at eaves and valleys; continuous ridge vent.
- **Attic:** Vented with R-50 blown cellulose, 14" raised heel trusses. All top plates sealed with caulk. Attic stair has air-sealing R-50 insulated cover.
- **Foundation:** Sealed, conditioned crawlspace; R-11 fiberglass blanket sidewalls; rim band insulated with open-cell spray foam.
- **Windows:** Double-pane, vinyl-framed, low-e, argon-filled, U=0.30, SHGC=0.20.
- **Air Sealing:** 2.08 ACH 50.
- **Ventilation:** ERV, MERV 8 filters.
- **HVAC:** Heat pump, 8.5 HSPF, 15 SEER; all ductwork between floors; transfer grilles for pressure balancing from bedrooms.
- **Hot Water:** 50-gal heat pump water heater, 3.25 EF.
- **Lighting:** 100% LED.
- **Appliances:** ENERGY STAR dishwasher, two ENERGY STAR ceiling fans.
- **Solar:** 5.4-kW PV with inverter.
- **Water Conservation Features:** Compact plumbing design.
- **Energy Management System:** Internet tracking of PV production.
- **Other:** Optional inverters for battery storage. Low-VOC finishes. Optional electric car charger.

