Health-E Community Enterprises of Virginia
Noah’s Ark | Hampton, VA | WFSolarHomes.com

“Since we moved into the property [my wife’s] allergy level has gone down.” Health-E Home owner

KEY FEATURES

• Walls: 2x6 24” o.c., advanced framing, R-31 total: ½” drywall, 2” closed-cell spray foam, 3.5” blown fiberglass; 2” closed-cell + 3.5” open-cell spray foam in rim joists; coated R-3.6 OSB sheathing taped at seams; house wrap, fiber cement siding.
• Roof: Gable roof; reflective metal roofing, ice-and-water shield, 2-ft overhangs.
• Attic: Unvented, vaulted ceilings, R-44.7 total; 3” R-19.5 closed-cell spray foam, 7” R-25.2 open-cell spray foam, 14” raised energy heel.
• Foundation: Below-grade pier foundation.
• Windows: Double-pane, argon-filled, low-e2, vinyl casement frames, impact-resistant glass, U=0.23, SHGC=0.17.
• Air Sealing: 1.6 ACH 50, closed-cell spray foam.
• Ventilation: ERV supplies to return side of HVAC, has 2 separately ducted returns; continuous bath fans with humidity sensors for boost speed, MERV 8 filters.
• HVAC: Central air-source heat pump, 10 HSPF, 19.75 SEER; 2-stage gas furnace for backup.
• Hot Water: Heat pump water heater, push button recirculation pump.
• Lighting: 100% LED, motion sensors, daylighting, ENERGY STAR ceiling fans.
• Appliances: ENERGY STAR dishwasher and clothes washer.
• Solar: Ready for 13.1-kW PV system.
• Water Conservation: WaterSense-labeled fixtures, drought-resistant landscaping.
• Energy Management System: Internet-enabled control of heating and cooling.
• Other: Aging-in-place; low-VOC paint, Green Guard flooring with cork backing.

CONTACT
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PROJECT DATA

• Layout: 4 bdrm, 4.5 bath, 2.5 fls, 4,691 ft²
• Climate: IECC 4A, mixed-humid
• Completed: May 2019
• Category: custom buyer

MODELED PERFORMANCE DATA

• HERS Index: without PV 47, with PV -16
• Annual Energy Costs: without PV $2,000, with PV -$250
• Annual Energy Cost Savings: (vs typical new homes) without PV $1,800, with PV $3,900
• Annual Energy Savings: without PV 14,700 kWh, 8 MCF, with PV 32,500 kWh, 8 MCF
• Savings in the First 30 Years: $189,300

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For more information on the DOE Zero Energy Ready Home program, go to http://energy.gov/eere/buildings/zero-energy-ready-home or scan the QR code.

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