Habitat for Humanity of Catawba Valley

Julia II | Hickory, NC | HabitatCatawbaValley.org

"High-performance homes that are not only affordable to purchase, but also affordable to operate and maintain."

Derek Ross, Habitat for Humanity of Catawba Valley

Contact

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PROJECT DATA

- Layout: 3 bdrm, 2 bath, 1 fl, 1,240 ft²
- Climate: IECC 4A, mixed-humid
- Completed: September 2016
- Category: affordable

MODELED PERFORMANCE DATA

- HERS Index: without PV 49; with PV NA
- Annual Energy Costs: without PV $800; with PV $NA
- Annual Energy Cost Savings: (vs typical new homes) without PV $1,100; with PV $NA
- Annual Energy Savings: without PV 6,700 kWh; with PV NA
- Savings in the First 30 Years: $49,000

KEY FEATURES

- Walls: 2x4 16-in. o.c., advanced framed; R-15 blown-in fiberglass, R-10 rigid foam with taped seams, OSB sheathing, 2x4 furring strips, engineered wood lap siding.
- Roof: Architectural shingles, taped coated OSB sheathing.
- Attic: Vented attic with R-50 blown fiberglass.
- Foundation: Unvented crawlspace, CMU walls with interior R-10 rigid foam.
- Windows: Double-pane, low-e, vinyl frames; U=0.30, SHGC=0.22.
- Air Sealing: 3 ACH 50.
- Ventilation: ERV; MERV 8 filter.
- HVAC: Ductless mini-split heat pump, 26.1 SEER, 11 HSPF.
- Hot Water: Heat pump water heater, 3.39 EF.
- Lighting: 100% LED.
- Appliances: ENERGY STAR refrigerator, dishwasher, clothes washer, clothes dryer, ceiling fans, and bathroom exhaust fans.
- Water Conservation: EPA WaterSense fixtures.
- Energy Management System: None.
- Other: Universal design features.

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.