

Habitat for Humanity of Catawba Valley

Northstone Bungalow | Hickory, NC | HabitatCatawbaValley.org





"Now we live in a Zero Energy Ready Home that is comfortable, with healthy air to breathe, and our energy bills have decreased." Home owner









PROJECT DATA

- **Layout:** 3 bdrm, 2 bath, 1 fl, 1,232 ft²
- Climate: IECC 4A, mixed-humid
- Completed: March 2016
- Category: affordable

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 46, with PV NA
- Projected Annual Energy Costs: without PV \$800, with PV \$NA
- Projected Annual Energy Cost Savings:
 (vs typical new homes) without PV
 \$700, with PV \$NA
- Annual Energy Savings: without PV 7,600 kWh; with PV NA

CONTACT

Derek Ross 828-612-1436 derek@habitatcatawbavalley.org

KEY FEATURES

- **Walls:** 2x4 16" o.c., advanced framing; OSB sheathing; R-15 blown fiberglass; R-10 EPS exterior rigid foam with taped seams; 2x4 furring strips; engineered wood lap siding.
- Roof: Coated OSB sheathing with taped seams, 30-year architectural shingles.
- Attic: Vented attic, R-50 blown fiberglass. Raised-heel trusses.
- **Foundation:** Unvented crawlspace of concrete block with R-10 EPS on inside of walls and 12-mil reinforced liner.
- Windows: Double-pane, low-e vinyl-framed windows, U=0.30, SHGC=0.22.
- Air Sealing: 3 ACH 50.
- Ventilation: Continuous ERV at 42 cfm.
- HVAC: Ducted mini-split heat pump in closed crawlspace, 18 SEER, 10 HSPF, R-8 flex duct.
- **Hot Water:** Heat pump water heater 3.39 EF.
- Lighting: 100% LED lighting, ENERGY STAR ceiling fans.
- Appliances: ENERGY STAR refrigerator, dishwasher, washer & dryer.
- Solar: None.
- Water Conservation Features: WaterSense plumbing fixtures.
- Energy Management System: None.
- Other: Low-VOC paint, passive radon ventilation system, indoor return air vents; universal design wider doorways and hallway.





