



Photos courtesy of Habitat for Humanity

"I couldn't afford to pay for rent and groceries and gas [before owning my Zero Energy Ready Home." Home owner



## PROJECT DATA

- **Layout:** 4 bdrm, 2 bath, 1 fl, 1,352 ft<sup>2</sup>
- **Climate:** IECC 6A, cold
- **Completed:** November 2014
- **Category:** affordable

### MODELED PERFORMANCE DATA

- **HERS Index:** without PV 36, with PV -1
- **Projected Annual Energy Costs:** without PV \$1,002, with PV \$106
- **Projected Annual Energy Cost Savings:** (vs home built to 2009 IECC) without PV \$119, with PV \$896
- **Annual Energy Savings:** without PV 34.7 MMbtu, with PV 4.2 MMbtu

## CONTACT

Wendy Irvin  
wendyi@habitatgtr.org  
231-941-4663

## KEY FEATURES

- **Walls:** R-43: 2x6, 24" o.c. with 5.5" R-23 blown fiberglass in cavity, 7/16" OSB, three 2" layers XPS R-20 rigid foam on exterior, fiber cement lap siding over 1x4 battens.
- **Roof:** Raised heel trusses, 2' overhangs at eaves and gables, asphalt shingles.
- **Attic:** Vented attic with 20" (R-80) blown cellulose insulation, plus closed-cell spray foam at eaves and penetrations.
- **Foundation:** R-22.5 ICF frost-protected shallow foundation walls, three 2" layers EPS under slab for R-30.
- **Windows:** Triple-pane low-e, argon-fill, U=0.19.
- **Air Sealing:** 0.88 ACH 50.
- **Ventilation:** ERV.
- **HVAC:** Ductless mini-split heat pump, 2 indoor wall units, 18 SEER, 9.3 HSPF.
- **Hot Water:** Heat pump water heater, 2.75 EF.
- **Lighting:** 100% LED.
- **Appliances:** All ENERGY STAR.
- **Solar:** 7.43-kW PV.
- **Water Conservation Features:** All fixtures low flow.
- **Energy Management System:** Energy monitoring of PV HVAC, appliances, and plug load.
- **Other:** No-/low-VOC paints.

