Habitat for Humanity, Grand Traverse Region

The Depot Neighborhood | Traverse City, MI | HabitatGTR.org

“I couldn’t afford to pay for rent and groceries and gas [before owning my Zero Energy Ready Home].” Home owner

CONTACT

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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.

PROJECT DATA

• Layout: 4 bdrm, 2 bath, 1 fl, 1,352 ft²
• 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

KEY FEATURES

• Walls: R-43: 2x6, 24” o.c. with 5.5” R-23 blown fiberglass in cavity, ½” 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.
• Other: No-/low-VOC paints.