PROJECT DATA

• Layout: 3 bdrm, 3.5 bath, 3 fl + bsmt, 3,912 ft²

• Climate: IECC 6A, cold

• Completed: May 2016

• Category: custom for buyer

MODELED PERFORMANCE DATA

• HERS Index: without PV 29, with PV -11

• Projected Annual Energy Costs: without PV $1,875, with PV -$322

• Projected Annual Energy Cost Savings: (vs home built to 2009 IECC) without PV $3,200, with PV $5,397

• Annual Energy Savings: without PV 24,615 kWh, with PV 41,518 kWh

KEY FEATURES

• Walls: R-22 ICF, vinyl siding, liquid-applied door and window flashing.

• Roof: Asphalt shingles, peel and stick at edges and valleys.

• Attic: R-64 vaulted ceilings, insulated, unvented roof with 11" open-cell + 2" closed-cell spray foam.

• Foundation: ICF below-grade foundation walls for R-22 at slab edge, R-27 closed-cell spray foam under slab.

• Windows: Triple-pane, U=0.17, SHGC=0.23, argon-fill, vinyl-framed.

• Air Sealing: 0.16 ACH 50.

• Ventilation: ERV, MERV 7 and 11 filters, returns from bathrooms, kitchen, and laundry.

• HVAC: Ground-source heat pump, 5.7 COP, 19.5 EER, all ducts inside.

• Hot Water: Ground-source heat pump desuperheater and 50-gal. air-source heat pump tank water heater 3.1 EF.

• Lighting: 100% LED.

• ENERGY STAR Appliances: Refrigerator, clothes washer, dishwasher; heat pump clothes dryer.

• Solar: 13,440-kW PV.

• Water Conservation: Low-flow fixtures, drought-tolerant plants.

• Energy Management System: None.

• Other: NO-VOC paint, 75% construction debris recycled, disaster-resistant ICF construction with spray foam and hurricane clips.

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.