



Charis Homes

ICF Home | North Canton, OH | CharisHomes.com



Photos courtesy of Charis Homes

“The increased comfort level and more even indoor temperatures are noticeably better in the Zero Energy Home.” Home owner



PROJECT DATA

- **Layout:** 4 bdrm, 4 bath, 2 fl + bsmt 5,505 ft²
- **Climate:** IECC 5A, cold
- **Completed:** January 2015
- **Category:** custom for buyer

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 31
- **Projected Annual Energy Costs:** without PV \$2,322
- **Projected Annual Energy Cost Savings:** (vs home built to 2009 IECC) without PV \$4,144
- **Annual Energy Savings:** without PV 27,741

CONTACT

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KEY FEATURES

- **Walls:** Mostly ICF, some 2x6 walls with ½" foam board exterior, house wrap.
- **Roof:** Self-adhered 50 mil. membrane in valleys, synthetic felt, 30-year architectural shingles.
- **Attic:** R-50 blown cellulose.
- **Foundation:** ICF.
- **Windows:** Double-pane, low-e, argon-filled, U=0.34, SHGC=0.29.
- **Air Sealing:** 1.65 ACH 50.
- **Ventilation:** ERV, bath exhaust fans.
- **HVAC:** Geothermal heat pump with back-up tankless water heater for hydronic forced-air heating and hot water; air conditioning.
- **Hot Water:** Geothermal heat pump desuperheater with back-up tankless water heater.
- **Lighting:** 90% LED, 10% CFL.
- **Appliances:** ENERGY STAR kitchen and laundry appliances, ceiling fans.
- **Solar:** Pre-wired for solar PV, expect to install by December 2016.
- **Water Conservation:** Low-flow toilets.
- **Energy Management System:** Programmable thermostat.
- **Other:** None.

