Charis Homes
ICF Home  |  North Canton, OH  |  CharisHomes.com

“...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

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.

CONTACT
Glenna Wilson
gwilson@charishomes.com
330-575-8545

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.