



Photos courtesy of Charis Homes LLC

“The extra cost of building to the DOE ZERH standards for this home has been offset by the leads and traffic generated by the DOE ZERH designation.” *Glenna Wilson, Charis Homes*



PROJECT DATA

- **Layout:** 3 bdrm, 2 bath, 1 fl + bsmt, 4,734 ft²
- **Climate:** IECC 5A, cold
- **Completed:** September 2016
- **Category:** custom spec

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 36, with PV NA
- **Projected Annual Energy Costs:** without PV \$2,050, with PV \$NA
- **Projected Annual Energy Cost Savings:** (vs typical new homes) without PV \$1,150, with PV \$NA
- **Annual Energy Savings:** without PV 6,500 kWh, 125 MCF

CONTACT

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KEY FEATURES

- **Walls:** 2x6 walls with R-23 mineral wool; breathable house wrap, 1" rigid foam between house and garage.
- **Roof:** Self-adhered membrane at eaves, synthetic underlayment, 30-year architectural shingles.
- **Attic:** R-50 blown cellulose, all top plates air sealed.
- **Foundation:** ICF.
- **Windows:** Double-pane, low-e, argon-filled, U=0.34, SHGC=0.29.
- **Air Sealing:** 1.50 ACH 50.
- **Ventilation:** Moisture and motion sensor exhaust fans; MERV 11 furnace filter.
- **HVAC:** Natural gas furnace 97.4 AFUE; 19 SEER AC; programmable thermostat.
- **Hot Water:** Tankless gas water heater, 0.98 EF.
- **Lighting:** 100% LED, 10% CFL.
- **Appliances:** ENERGY STAR kitchen and laundry appliances, ceiling fans.
- **Solar:** Solar-ready.
- **Water Conservation:** WaterSense faucets, low-flow toilets.
- **Energy Management System:** Programmable thermostat with tracking of energy usage, internet controllable.
- **Other:** Low-VOC paints, sealants, glues, carpets, wood flooring, cabinetry, roof sheathing, exterior OSB, and subfloor.

