**PROJECT DATA**

- **Layout:** 4 bdrm, 5 bath, 1 fl + bsmt, 3,750 ft²
- **Climate:** IECC 6A, cold
- **Completed:** November 2015
- **Category:** custom for buyer

**MODELED PERFORMANCE DATA**

- **HERS Index:** without PV 41, with PV 18
- **Projected Annual Energy Costs:** without PV $1,569, with PV $727
- **Projected Annual Energy Cost Savings:** (vs home built to 2009 IECC) with PV $4,039
- **Annual Energy Savings:** with PV 30,856 kWh, 261 gal. propane

**KEY FEATURES**

- **Walls:** R-35, 8” graphite-enhanced SIP, draining house wrap, corrugated steel siding.
- **Roof:** R-56, 12” graphite-enhanced SIP, synthetic underlayment, steel standing-seam roof.
- **Attic:** Mostly vaulted ceilings, two small attic areas in conditioned space for HRV and air-handler.
- **Foundation:** 13” R-23 ICF foundation with spray-on coating and ribbed drainable membrane, backfill of washed drain rock; under slab 6” R-30, type II EPS.
- **Windows:** Vinyl-framed triple-pane, triple-low-e windows, U=0.13-0.17, SHGC=0.51.
- **Air Sealing:** 2.01 ACH 50.
- **Ventilation:** 2 HRVs, 95% efficient.
- **HVAC:** Radiant floor heat from solar hot water system, passive solar design.
- **Hot Water:** Solar hot water, propane-fired tankless back-up.
- **Lighting:** 100% LED.
- **Appliances:** ENERGY STAR refrigerator, dishwasher, clothes washer.
- **Solar:** Hot water system with 120° phase change materials in 320-gal storage tank.
- **Water Conservation:** All low-flow faucets & fixtures.
- **Energy Management System:** Cell-phone interface w/heating system for remote monitoring of floor temperature, etc.
- **Other:** 83% of heating from passive solar gains, remainder from solar hot water radiant floor for annual energy cost of ~$51, electric car charging station.

**CONTACT**

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