



"I love the ease of life and not worrying about things I would normally worry about." Homeowner



PROJECT DATA

- **Layout:** 4 bdrm, 2.5 bath, 2 fls + bsmt, 2,334 ft²
- **Climate:** IECC 5A, cold
- **Completed:** October 2022
- **Category:** Custom for Buyer

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 42; with PV -8
- **Annual Energy Costs:** without PV \$2,500; with PV \$-527
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$3,450 with PV \$6,550
- **Annual Energy Savings:** without PV 21,700 kWh; with PV 40,950 kWh
- **Savings in the First 30 Years:** without PV \$145,350; with PV \$274,350

CONTACT

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KEY FEATURES

- **Walls:** 2x4, 16" o.c., R-20 total: advanced framing, R-15 dense-packed cellulose, 7/16" OSB, 1.16" R-5 graphite EPS, house wrap, rainscreen behind stone veneer, vinyl siding.
- **Roof:** Gabled truss roof, plywood sheathing, sealed seams; synthetic underlayment, continuous ridge vents, center-vented aluminum soffits.
- **Attic:** Vented Attic, 18" R-50 blown fiberglass. Vaulted ceilings have 12" R-38 batt fiberglass. 7" raised-heel trusses.
- **Foundation:** Insulated basement: poured concrete, 2" R-10 rigid foam on interior. Dimpled plastic waterproofing on exterior, integrated drain tile on both sides of footing.
- **Windows:** Double-pane, U=0.27, SHGC= 0.26, low-e, argon-fill. Interior motorized blinds.
- **Air Sealing:** 1.44 ACH 50; All exterior seams in insulation and drain wrap sealed with flashing tape. Closed-cell spray foam over top plates, in rim joists, at attic penetrations, and around windows. All framing seams sealed with caulk or spray foam.
- **Ventilation:** ERV, integrated with HVAC, 1.82 CFM/Watt, 78% SRE; App controls.
- **HVAC:** Central air source heat pump, 9.0 HSPF, 16 SEER.
- **Hot Water:** Heat pump water heater, 65-gallon, 3.63 EF. Water heater in central location.
- **Lighting and Appliances:** LED lighting. App-controlled smart light bulbs. ENERGY STAR appliances.
- **Solar:** 14.76 kWh solar PV array. No battery. Used solar-ready roof trusses.
- **Energy Management System:** Smart Wi-Fi-enabled thermostat, app for ERV, smart window shades operated via app and timers, garage door app.
- **Other:** High school training program.

