



Photos courtesy of Zeronetnow.

“We gave the grid 3 MWh for a credit of \$450.” Homeowner



PROJECT DATA

- **Layout:** 4 bdrm, 3 bath, 2 fls + bsmt, 4,012 ft²
- **Climate:** IECC 6A, cold
- **Completed:** October 2019
- **Category:** Custom for Buyer >3,000 ft²

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 26; with PV -11
- **Annual Energy Costs:** without PV \$1,750; with PV \$300
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$3,700; with PV \$5,150
- **Annual Energy Savings:** without PV 25,200 kWh; with PV 39,600 kWh
- **Savings in the First 30 Years:** without PV \$154,200; with PV \$215,900

CONTACT

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KEY FEATURES

- **Walls:** ICF, 11.25" R-22 total: ICFs provide air barrier and drainage plane, vinyl siding.
- **Roof:** Truss gable roof, R-63 total: hybrid spray foam encapsulating roof trusses, 3/4" OSB roof decking, 24" o.c. roof trusses, 5/8" coated sheathing w/taped seams, asphalt shingles.
- **Attic:** Unvented vaulted attic, R-63 total: 11" R-49 open-cell medium-density spray foam on under-side of the roof deck, 2" R-14 closed-cell spray foam over open-cell spray foam.
- **Foundation:** Walk-out basement, 11.25" R-22 ICF.
- **Windows:** Triple-pane, argon-filled, low-e, vinyl-frame, casement style, U=0.16, SHGC=0.16.
- **Air Sealing:** 0.14 ACH 50. Spray foam under slab; liquid-applied flashings at all rough openings and penetrations; Spray foam at eaves and under roof deck.
- **Ventilation:** ERV with MERV 6 filter, ducted to HVAC return with a MERV 13 filter.
- **HVAC:** Ground source heat pump, 3.5/5.3 COP, 22 EER/37 EER.
- **Hot Water:** Ground-source heat pump water heater, 3.1 COP, 80-gal.
- **Lighting:** 100% LED w/motion sensors.
- **Appliances:** ES refrigerator, dishwasher, clothes washer/dryer, ventless heat pump.
- **Solar:** 12.96 kW rooftop panels; 97.5% efficient inverters.
- **Water Conservation:** EPA WaterSense fixtures; central manifold with PEX piping; drought-resistant landscaping.
- **Energy Management System:** ERV has CO₂ sensors. Monitors for PV production, temp, humidity.
- **Other:** Accessibility features. Zero VOC paint, low-VOC cabinetry. Hurricane clips.

