



# Amaris Homes

Oakgreen Model | Woodbury, MN | MinnesotaGreenHomeBuilder.com



Photos courtesy of Amaris Homes

"I have appreciated working with the DOE program." Amaris Homes



## PROJECT DATA

- **Layout:** 4 bdrm, 3.5 bath, 1 fl + bsmt, 3,357 ft<sup>2</sup>
- **Climate:** IECC 6A, cold
- **Completed:** September 2019
- **Category:** Custom Spec

### MODELED PERFORMANCE DATA

- **HERS Index:** without PV 34; with PV -2
- **Annual Energy Costs:** without PV \$1,400; with PV \$50
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$2,000; with PV \$4,700
- **Annual Energy Savings:** without PV 10,700 kWh, 800 Therms; with PV 24,800 kWh, 800 Therms
- **Savings in the First 30 Years:** without PV \$92,600; with PV \$218,900

## CONTACT

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## KEY FEATURES

- **Walls:** ICF, R-24 total: 11.25" ICFs, house wrap, engineered wood lap siding.
- **Roof:** Truss gable roof, 1/2" OSB sheathing, ice & water shield, 15# felt, asphalt shingles, ridge vent, baffles every bay, 2-ft overhangs.
- **Attic:** Vented attic, R-60 total: 2" R-14 closed-cell spray-foam on attic floor and up 15.25" raised heels, 15" R-46 blown fiberglass.
- **Foundation:** Insulated basement, R-33 total: 13.25" R-23 ICF, water-proofing membrane, plastic dimple board, stucco cover, 2" R-10 under-slab rigid foam.
- **Windows:** Double-pane, argon-filled, low-e2, fiberglass casement frames, U=0.23, SHGC=0.25. Automated blinds on west and south windows.
- **Air Sealing:** 0.64 ACH 50; sill plates sealed with acoustic sealant, top plates spray foamed.
- **Ventilation:** ERV, MERV 16 furnace filter, timered bath fans, garage exhaust fan.
- **HVAC:** Gas furnace, 98 AFUE; radiant floor heat in basement, 19 SEER 5-stage heat pump.
- **Hot Water:** Gas tank, 0.88 EF, 50-gal. PEX piping; recirculation pump.
- **Lighting:** 100% LED, low-profile ceiling fixtures (not can), smartphone controllable.
- **Appliances:** ENERGY STAR smart refrigerator, dishwasher, and clothes washer.
- **Solar:** 11.34-kW PV, 36 panels, solar edge optimizers.
- **Water Conservation:** EPA WaterSense certified. Drought-resistant landscaping.
- **Energy Management System:** Smart thermostats, automated blinds, smart lighting, some smart outlets, smart irrigation system, PV tracking, smart refrigerator. All Wi-Fi controlled.
- **Other:** Electric vehicle charging station. Air quality sensor. Accessibility features.

