



# Amaris Homes

Dominica Way | Maplewood, MN | MinnesotaGreenHomebuilder.com



Photos courtesy of Amaris Homes

“This is the first home I’ve lived in that hasn’t cost me an arm and a leg to heat during the winter.” *Home owner*



## PROJECT DATA

- **Layout:** 4 bdrm, 4 bath, 2 fl + bsmt, 3,716 ft<sup>2</sup>
- **Climate:** IECC 6A, cold
- **Completed:** June 2015
- **Category:** custom for buyer

### MODELED PERFORMANCE DATA

- **HERS Index:** without PV 46, with PV 13
- **Projected Annual Energy Costs:** without PV \$2,163, with PV \$736
- **Projected Annual Energy Cost Savings:** (vs home built to 2006 IECC) without PV \$1,270, with PV \$1,891
- **Annual Energy Savings:** without PV 9,910 kWh, 407 therms; with PV 30,572 kWh, 570 therms

## CONTACT

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## KEY FEATURES

- **Walls:** 2x6 24" o.c. aligned with floor & roof trusses, R-19.5 closed-cell spray foam in cavities plus R-5.5 foam sheathing for R-25 total; house wrap, engineered wood siding.
- **Roof:** Ice and water shield 36" past wall line; metal valley, edge, and step flashing; kick-out flashing; 3' overhangs at eaves; continuous ridge vent; vents and baffles in each truss bay; architectural asphalt shingles.
- **Attic:** Vented, 2" closed-cell foam on ceiling deck plus blown cellulose to R-60. R-49 closed-cell spray foam in vaulted ceilings.
- **Foundation:** Basement of poured concrete, R-10 rigid exterior foam, R-10 rigid under slab.
- **Windows:** Double-pane, low-e, argon-filled, vinyl-framed, U=0.26; SHGC=0.18.
- **Air Sealing:** 0.66 ACH 50.
- **Ventilation:** ERV, motion-controlled exhaust fans. MERV 16 filter.
- **HVAC:** 98% AFUE gas furnace, air-source heat pump with variable-speed DC motor, 9.0 HSPF, 16.5 SEER. All HVAC ductwork is rigid metal, mastic-sealed, in thermal enclosure.
- **Hot Water:** 50-gal. electric water heater, 96% AFUE.
- **Lighting:** 100% LED.
- **Appliances:** ENERGY STAR refrigerator, dishwasher, and three exhaust fans.
- **Solar:** 12.2-kW PV.
- **Water Conservation:** EPA WaterSense bathroom faucets, toilets, shower heads; rainwater harvesting.
- **Energy Management System:** Web-based PV monitoring, programmable thermostat.
- **Other:** Two electric car charging stations in garage. Low-VOC paints, coatings, primers, glues.

