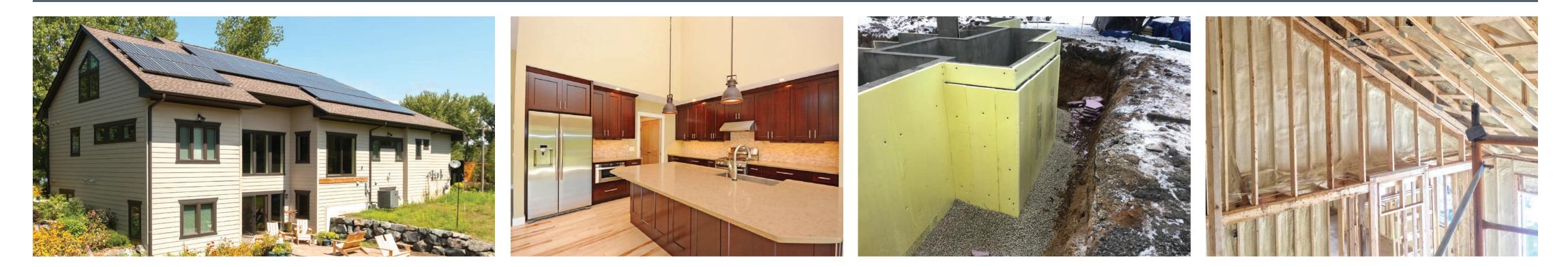


Amaris Homes

Dominica Way | Maplewood, MN | MinnesotaGreenHomebuilder.com



"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 ft²
- Climate: IECC 6A, cold
- Cimale. IECC 0A, COIU
- Completed: June 2015
- Category: custom for buyer

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.

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

Raymond Pruban rpruban@amariscustomhomes.com 651-426-0584

- 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.



Energy Efficiency & Renewable Energy





Housine

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