



Photos courtesy of e2 Homes

“In a world with ever-increasing energy costs, global warming and the need to wean ourselves from fossil fuels, my wife and I were so happy to have a builder who was able to guide us in building our energy-efficient home.” *Home owner*



PROJECT DATA

- **Layout:** 5 bdrm, 4 bath, 1.5 fl, 3,912 ft²
- **Climate:** IECC 2A, hot-humid
- **Completed:** Fall 2015
- **Category:** custom for buyer

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 60, with PV 5
- **Projected Annual Energy Costs:** without PV \$2,258, with PV \$610
- **Projected Annual Energy Cost Savings:** (vs home built to 2012 IECC) without PV \$1,191, with PV \$2,851
- **Annual Energy Savings:** without PV 9,925 kWh, with PV 23,764 kWh

KEY FEATURES

- **Walls:** R-19 concrete block walls.
- **Roof:** Thermoplastic polyolefin roof membrane.
- **Attic:** Spray foam R-21.
- **Foundation:** Slab-on-grade.
- **Windows:** Low-e windows and sliders, U=0.26, SHGC=0.27.
- **Air Sealing:** 2.11 ACH 50.
- **Ventilation:** Timer-controlled exhaust fans and controlled fresh air intake.
- **HVAC:** Geothermal heat pump, 26.71 EER.
- **Hot Water:** Hybrid heat pump hot water, with geothermal heat recovery/preheat.
- **Lighting:** LEDs.
- **Appliances:** ENERGY STAR refrigerator, dishwasher.
- **Solar:** 10-kW PV, wired for more.
- **Water Conservation:** WaterSense low-flow fixtures, high-efficiency irrigation.
- **Energy Management System:** Web-based energy monitoring.
- **Other:** Low-VOC paint.

CONTACT

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