



Photos courtesy of Insulsteel Building Enclosures

“What is not to love in our new energy-efficient home!” Home owner



## PROJECT DATA

- **Layout:** 5 bdrm, 5 bath, 2 fl, 3,756 ft<sup>2</sup>
- **Climate:** IECC 3A, hot-humid
- **Completed:** April 2016
- **Category:** custom for buyer

### MODELED PERFORMANCE DATA

- **HERS Index:** without PV 50, with PV 12
- **Projected Annual Energy Costs:** without PV \$2,347, with PV \$643
- **Projected Annual Energy Cost Savings:** (vs home built to 2012 IECC) without PV \$2,348, with PV \$4,042
- **Annual Energy Savings:** without PV 18,174 kWh, with PV 38,329 kWh

## CONTACT

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## KEY FEATURES

- **Walls:** R-33 5.5" EPS + steel insulated panels, OSB sheathing, house wrap, fiber cement siding.
- **Roof:** R-33 5.5" EPS + steel insulated panels, OSB decking, architectural shingles.
- **Attic:** Unvented, R-33 EPS panels.
- **Foundation:** Raised-pier foundation, 2.75" spray foam under floor.
- **Windows:** Vinyl-framed, double-hung, double-pane, low-e, argon-fill, U=0.19-0.30, SHGC=0.19.
- **Air Sealing:** 3.3 ACH 50.
- **Ventilation:** Fresh air intake to air handler, electronic damper-controlled, MERV 13 filter.
- **HVAC:** Air source heat pump, EER 8.65, HSPF 7.25; small-diameter high-velocity ducts in conditioned attic.
- **Hot Water:** Solar hot water and electric hot water to two 40-gal tanks.
- **Lighting:** All LED fixtures.
- **Appliances:** ENERGY STAR refrigerator, dishwasher.
- **Solar:** 6.0-kW with battery backup; solar hot water.
- **Water Conservation:** WaterSense fixtures.
- **Energy Management System:** Electronic thermostats.
- **Other:** No-VOC paints & sealants.

