



“The microgrid provides us peace of mind when it comes to being prepared for extreme heat, power outages, or possible weather events.” Homeowners



PROJECT DATA

- **Layout:** 4 bdrm, 3 baths, 1 fl, 2,906 ft²
- **Climate:** IECC 3B, hot-dry
- **Completed:** April 2023
- **Category:** Production

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 48.8; with PV 4.3 (CA HERS)
- **Annual Energy Costs:** without PV \$1,750; with PV \$150
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$160; with PV \$1,800
- **Annual Energy Savings:** without PV 700 kWh; with PV 7,700 kWh
- **Savings in the First 30 Years:** without PV \$30,950; with PV \$75,350

CONTACT

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KEY FEATURES

- **Walls:** Panelized, 2x4 and 2x6, 16" oc, adv framed: 2x4 are R-15 fiberglass batt + R-6 exterior rigid polyiso; 2x6 are R-21 + R-6 polyiso. 60-minute asphalt paper. 1-coat stucco.
- **Roof:** Truss, gabled roof, hip roof.
- **Attic:** Unvented (hot roof) 8.5" R-32 open-cell spray-foam below deck.
- **Foundation:** Slab on grade.
- **Windows:** Double-pane, U=0.28, SHGC=0.23, argon gas-filled insulated window units.
- **Air Sealing:** 2.14 ACH50.
- **Ventilation:** ERV integrated with central HVAC airhandler. Uses HVAC supply and returns.
- **HVAC:** HSPF 9.0, SEER 16.5, central air source heat pump, compact duct design, variable speed compressor.
- **Hot Water:** 80-gal. hybrid electric smart heat pump water heater, 3.4 UEF. App for leak detection, energy usage, temperature. Load shifting enabled.
- **Lighting and Appliances:** LED lighting, ENERGY STAR appliances.
- **Solar:** 5.6-kW PV panels, 13-kWh energy storage.
- **Energy Management System:** Home power monitor provides real-time home energy usage and the ability to remotely manage what is powered on in the home.
- **Other:** Smart thermostat. All-in-one electrical smart panel combines solar, EV charging and battery energy in a single panel with whole-home surge protection.

