### PROJECT DATA
- **Layout:** 4 bdrm, 2 bath, 1 fl, 1,690 ft²
- **Climate:** IECC 2B, hot-dry
- **Completed:** December 2017
- **Category:** affordable

### MODELED PERFORMANCE DATA
- **HERS Index:** without PV 49; with PV NA
- **Annual Energy Costs:** without PV $1,255; with PV NA
- **Annual Energy Cost Savings:** (vs typical new homes) without PV $1,000; with PV $NA
- **Annual Energy Savings:** without PV 9,150 kWh; with PV $NA
- **Savings in the First 30 Years:** $44,100

### CONTACT
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### KEY FEATURES
- **Walls:** 2x6 and 2x8 24” o.c., advanced framed; R-15 open-cell spray foam + R-4 rigid foam; minimal sheathing; house wrap; stucco. Total = R-19.
- **Roof:** ⅜” coated OSB decking taped at seams; felt; battens; tile roofing. No roof penetrations; all vents through gable ends.
- **Attic:** Unvented attic; 5.5 to 7.5” R-25 open-cell spray foam on underside of roof deck.
- **Foundation:** Post-tensioned slab on grade, uninsulated.
- **Windows:** Double-pane, low-e, insulated vinyl frames; U=0.19, SHGC=0.33.
- **Air Sealing:** 0.96 ACH 50; whole-house aerosol sealant.
- **Ventilation:** ERV.
- **HVAC:** Heat pump, 16 SEER, 9.6 HSPF; R-6 ducts in conditioned space.
- **Hot Water:** 50-gallon heat pump water heater in garage; smart recirculation pump.
- **Lighting:** 100% LED.
- **Appliances:** All ENERGY STAR appliances, including heat pump, ERV, bathroom exhaust fans, kitchen appliances, lighting fixtures, and HVAC equipment.
- **Solar:** Solar ready.
- **Water Conservation:** WaterSense fixtures and appliances, irrigation system with rain sensor.
- **Energy Management System:** None.
- **Other:** Low- or no-VOC materials. Wi-Fi-enabled electric car charging station. Passive solar design; daylighting.

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"Consume less, conserve more, and give home buyers the most comfortable and healthy living experience possible." Geoff Ferrell, Mandalay Homes

For more information on the DOE Zero Energy Ready Home program, go to http://energy.gov/eere/buildings/zero-energy-ready-home or scan the QR code.

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Photos courtesy of Mandalay Homes