Mandalay Communities
Jasper Zero Energy | Prescott, AZ | MandalayHomes.com

"...the industry has recognized DOE builders as innovative." Homeowner

PROJECT DATA
- Layout: 3 bdrm, 2.5 bath, 1 fl, 2,772 ft²
- Climate: IECC 4B, mixed-B
- Completed: May 2020
- Category: Production

MODELED PERFORMANCE DATA
- HERS Index: without PV 45; with PV-6
- Annual Energy Costs: without PV $1,600; with PV $200
- Annual Energy Cost Savings: (vs typical new homes) without PV $2,100; with PV $3,450
- Annual Energy Savings: without PV 11,300 kWh; with PV 22,500 kWh
- Savings in the First 30 Years: without PV $86,900; with PV $145,100

KEY FEATURES
- Walls: 2x6, 16” o.c., R-21 total: 4.5” open-cell spray foam, ½” OSB sheathing, house wrap, 1” EPS foam, drainage plane, siding/stucco.
- Roof: Truss shed roof: OSB sheathing, double-layer underlayment, 50-yr shingles, ENERGY STAR Cool Roof certified.
- Attic: Unvented attic: 8” R-30 open-cell spray foam under roof deck, 5.5” raised heel trusses.
- Foundation: Slab on grade 1.5” closed-cell spray foam on slab edge, 2.5” closed-cell spray foam perimeter, 12” along slab edge.
- Windows: Double-pane, argon-filled, low-e, vinyl-frame, sliding, U=0.29, SHGC=0.23.
- Air Sealing: 0.60 ACH 50, aerosol acrylic sealant.
- Ventilation: ERV, MERV 12 filters.
- HVAC: Central two-stage heat pump, 9.6 HSPF, 17.0 SEER. Flex ducts in conditioned space.
- Lighting: 100% LED, wireless, integrated with energy management system. Daylighting.
- Appliances: ENERGY STAR dishwasher, refrigerator, clothes washer, clothes dryer.
- Solar: 6.3 kW; 20 315-W roof-mounted panels. 10-kW battery storage.
- Energy Management System: Smart thermostat, smart light switches.
- Other: Electric vehicle charging station, low/no VOC cabinets, carpets, flooring, paints, caulks, and glues.

CONTACT
David Everson
855-955-6466
dave@mandalayhomes.com

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.