



# Mandalay Homes

Foothills Lot 8 | Prescott, AZ | MandalayHomes.com



“Homeowners will send us their electric bills because they didn’t expect them to be *that* low.” *Builder*



## PROJECT DATA

- **Layout:** 2 bdrm, 2 bath, 1 fl, 1,872 ft<sup>2</sup>
- **Climate:** IECC 4B, mixed-dry
- **Completed:** June 2020
- **Category:** Production

### MODELED PERFORMANCE DATA

- **HERS Index:** without PV 45; with PV 34
- **Annual Energy Costs:** without PV \$1,300; with PV \$950
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$1,000; with PV \$1,400
- **Annual Energy Savings:** without PV 8,200 kWh; with PV 11,100 kWh
- **Savings in the First 30 Years:** without PV \$41,200; with PV \$55,900

## CONTACT

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## KEY FEATURES

- **Walls:** 2x6, 16" o.c., R-21 total: advance framed; R-21 open-cell spray foam in cavity, house wrap, exterior lath, stucco.
- **Roof:** Truss gabled roof: ¾" plywood, synthetic underlayment, asphalt shingles.
- **Attic:** Unvented attic: 7" R-30 open-cell spray foam on underside of roof deck.
- **Foundation:** Slab on grade.
- **Windows:** Double-pane, argon-filled, low-e2, vinyl frame, U=0.29, SHGC=0.23.
- **Air Sealing:** 0.63 ACH50, open-cell spray foam in walls and attic. Aerosol whole-house sealant.
- **Ventilation:** ERV w/MERV 12 filter. Exhaust fans in baths and laundry, master bath fan has humidity sensor. MERV 8 filters in returns in hall and bedrooms. 16 SRE, 73 CFM, 52 Watts.
- **HVAC:** Central air-source heat pump, 9.6 HSPF, 17 SEER, two-stage compressor.
- **Hot Water:** Heat pump, 50-gal, 3.42 EF.
- **Lighting:** 100% LED.
- **Appliances:** ENERGY STAR refrigerator, dishwasher, exhaust fan.
- **Solar:** 1.9-kW PV, 10-kWh battery storage, rooftop panels.
- **Water Conservation:** Low-flow fixtures, central manifold PEX piping, recirculation pump, drip and predictive irrigation, stormwater management practices.
- **Energy Management System:** PV tracking, battery usage timed to avoid peak rates.
- **Other:** EV charging, low/no-VOC cabinets, carpets, flooring, paints, caulks, glues. In-duct hydrogen-peroxide air purifier.

