**Mandalay Homes**
Overlook at the Dells | Prescott, AZ | MandalayHomes.com

• **Layout:** 3 bdrm, 2 bath, 1 fl, 1,962 ft²
• **Climate:** IECC 4B, mixed-dry
• **Completed:** May 2017
• **Category:** production

**MODELED PERFORMANCE DATA**
• **HERS Index:** without PV 47, with PV 20
• **Projected Annual Energy Costs:**
  - without PV $1,450, with PV + battery $490
• **Projected Annual Energy Cost Savings:**
  - (vs typical new homes) without PV $900, with PV + battery $2,130
• **Annual Energy Savings:**
  - without PV 4,100 kWh, 420 therms; with PV + battery 18,100 kWh, 20 therms

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**PHOTO CREDITS**
Photos courtesy of Mandalay Homes

**PROJECT DATA**

**KEY FEATURES**
• **Walls:** 2x6 24" o.c. studs, advanced framing, R-15 spray foam in cavities plus R-5 continuous rigid foam exterior=R-20 total wall; coated 7/16" OSB taped at seams plus house wrap; stucco siding.
• **Roof:** 7/16" coated OSB decking taped at seams, felt, battens, tile roofing.
• **Attic:** Unvented attic, R-25 open-cell foam on underside of roof deck; raised heel trusses.
• **Foundation:** 2" R-10 foam at slab edge to 24" deep on interior of stem wall on conventional slab.
• **Windows:** Vinyl-framed, dual-pane, argon-filled, low-e, U=0.29, SHGC=0.23.
• **Air Sealing:** 0.64 ACH 50; spray foam, taped coated sheathing, house wrap, aerosol sealant.
• **Ventilation:** ERV.
• **HVAC:** 2-stage heat pump, 9.6 HSPF, 17 SEER AC, unit and ducts in conditioned attic.
• **Hot Water:** 50-gal heat pump water heater.
• **Lighting:** 100% LED with dimmers and automated lighting controls.
• **Appliances:** All ENERGY STAR appliances and ceiling fans.
• **Solar:** 3.64-kW PV plus 10-kWh battery storage.
• **Water Conservation:** All WaterSense fixtures; central manifold home-run plumbing; smart-timer-controlled drip irrigation; drought-tolerant landscaping.
• **Energy Management System:** Automated control of the HVAC, ventilation, lighting, security, and entertainment systems.
• **Other:** Livable Design, gold seal certified, no-/low-VOC finishes, and flooring. Tested new whole-house spray sealant product. Prewired for electric car charger.