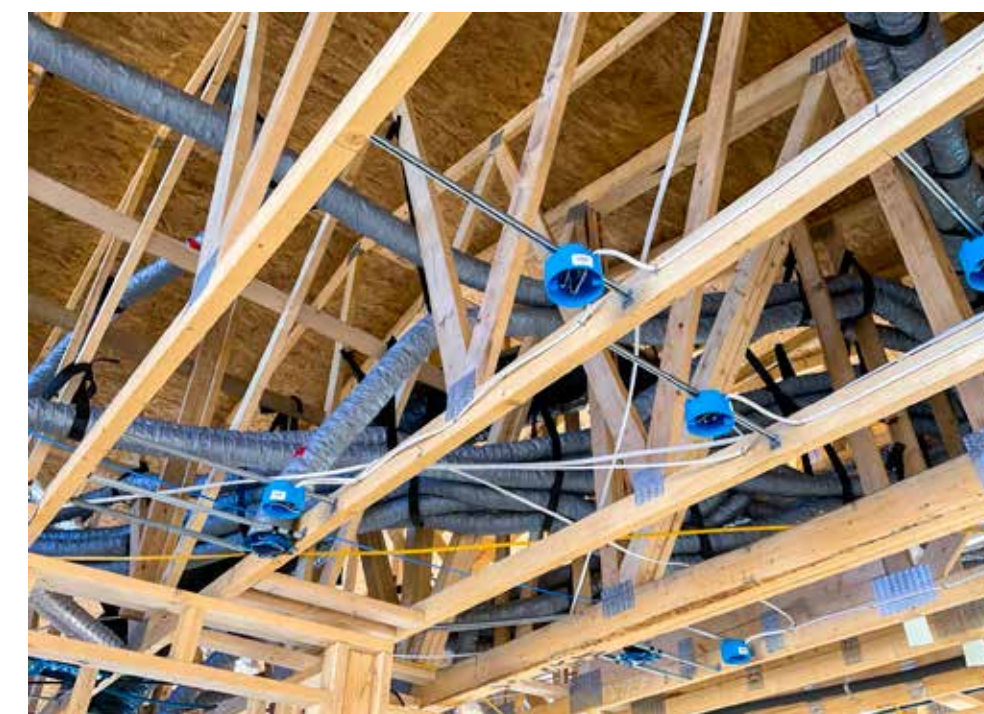




Photos courtesy of Mandalay Homes

“We were renting a 990-square-foot apartment and the fact that our ...summer bill is the same with double the square footage is amazing.” Homeowners



PROJECT DATA

- **Layout:** 2 bdrm, 2.5 bath, 1 fl, 2,109 ft²
- **Climate:** IECC 4B, mixed-dry
- **Completed:** May 2022
- **Category:** Production

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 44; with PV 14
- **Annual Energy Costs:** without PV \$1,350; with PV \$550
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$1,250; with PV \$2,050
- **Annual Energy Savings:** without PV 3,250 kWh; with PV 9,590 kWh
- **Savings in the First 30 Years:** without PV \$50,550; with PV \$82,500

CONTACT

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

KEY FEATURES

- **Walls:** 2x6, 16" o.c., R-25 total: R-25 spray foam, OSB house wrap, stucco.
- **Roof:** Truss shed roof: OSB, underlayment, asphalt shingles. 4-5/8" raised heel energy trusses.
- **Attic:** Unvented attic, vaulted ceilings, 10" R-33 open-cell spray-foam on under side of roof deck.
- **Foundation:** Slab on grade, insulated slab.
- **Windows:** Double-pane, argon-filled, low-e, vinyl-framed, single-hung, U=0.29, SHGC=0.23.
- **Air Sealing:** 0.66 ACH50. Open-cell spray foam in walls and attic. Whole-house sealed with aerosolized acrylic air sealant.
- **Ventilation:** ERV to central air handler, IAQ monitors in light switches in great room, kitchen, den, bedroom, and owner's suite. Humidity sensors in light switches for exhaust fans in baths and laundry.
- **HVAC:** Central air-source heat pump, 12 HSPF, 18 SEER, 4" high-flow flex ducts.
- **Hot Water:** Electric tankless water heater, smart recirculating pump.
- **Lighting:** 100% LED, motion sensors, timers, lighting controls.
- **Appliances:** ENERGY STAR refrigerator, dishwasher, ceiling fan, exhaust fans (5).
- **Solar:** 3.74-kW rooftop panels, 10-kWh battery storage. Solar production tracking.
- **Water Conservation:** Low-flow fixtures, PEX piping, drip irrigation.
- **Energy Management System:** Smart water usage, leak detection, IAQ and RH monitors.
- **Other:** Low/No-VOC products; air purification system; energy usage monitoring. EV charging station.

