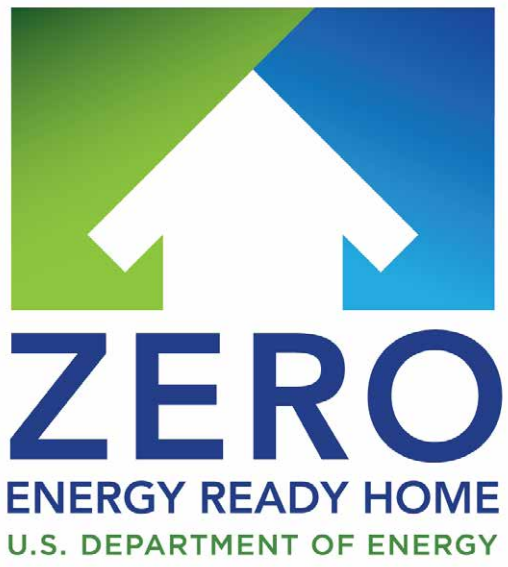




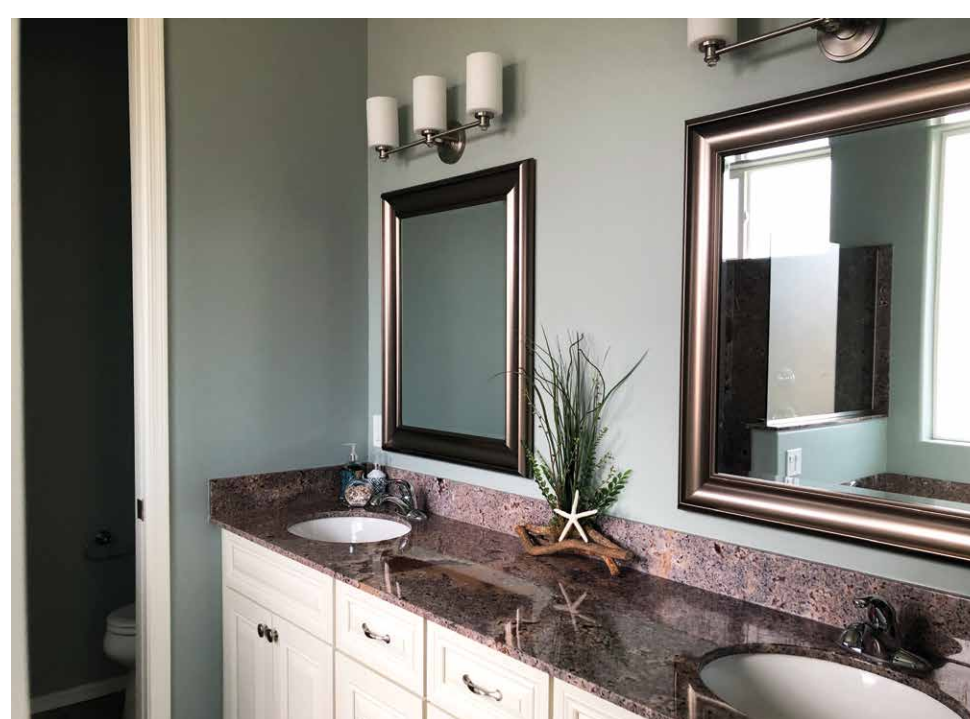
C & B Custom Homes

The Meritage | Clarkdale, AZ | CandBHomes.com



Photos courtesy of C & B Custom Homes

"Many of [our clients] have never paid more than the minimum electric bill." *C and B Homes*



PROJECT DATA

- **Layout:** 2 bdrm, 2 bath, 1 fl, 1,628 ft²
- **Climate:** IECC 4B, mixed-dry
- **Completed:** September 2019
- **Category:** custom spec

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 51; with PV 16
- **Annual Energy Costs:** without PV \$1,300; with PV \$450
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$1,280; with PV \$1,490
- **Annual Energy Savings:** without PV 1,200 kWh, 200 Therms; with PV 10,900 kWh, 200 Therms
- **Savings in the First 30 Years:** \$72,050

CONTACT

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KEY FEATURES

- **Walls:** 2x6 16" o.c., R-26 total: R-23 spray foam, house wrap, 1" R-5 foam sheathing, type "F" acrylic stucco.
- **Roof:** Gable roof; ½" sheathing, peel and stick underlayment, cement tile roofing, ENERGY STAR Cool Roof certified.
- **Attic:** Unvented, conditioned attic; 7" R-25 open-cell spray foam on underside of roof.
- **Foundation:** Slab-on-grade; 2" rigid foam under-slab to 48" around perimeter, 1" R-5 rigid foam slab edge insulation, 8" grouted solid CMU foundation walls.
- **Windows:** Double-pane, argon-filled, low-e, vinyl single-hung frames, U=0.24, SHGC=0.27.
- **Air Sealing:** 575 CFM50; 2.12 ACH 50.
- **Ventilation:** ERV, MERV 9 filter.
- **HVAC:** 96% AFUE gas furnace; 16 SEER AC; flex ducts located in conditioned attic.
- **Hot Water:** Tankless gas, 0.97 EF; central manifold plumbing with PEX piping, push button recirculation pump.
- **Lighting:** 100% LED.
- **Appliances:** All ENERGY STAR appliances.
- **Solar:** 3.48-kW PV system.
- **Water Conservation:** EPA WaterSense fixtures; drip irrigation.
- **Energy Management System:** Wi-Fi and Bluetooth compatible thermostat.
- **Other:** Zero-VOC paint and cabinets, FloorScore indoor air quality certified adhesives, UL Green Guard Gold flooring, Indoor Advantage Gold certified, Health Product Declaration Certification.



Energy Efficiency &
Renewable Energy



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.



PNNL-SA-147371 September 2019