PROJECT DATA

- **Layout:** 2 bdrm, 1.75 bath, 1 fl, 1,701 ft²
- **Climate:** IECC 5B, cold
- **Completed:** April 2018
- **Category:** custom spec

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 36; with PV -12
- **Annual Energy Costs:** without PV $500; with PV $-150
- **Annual Energy Cost Savings:** (vs typical new homes) without PV $450; with PV $1,100
- **Annual Energy Savings:** without PV 6,500 kWh; with PV 16,300 kWh
- **Savings in the First 30 Years:** $49,000

KEY FEATURES

- **Walls:** Double walls, 2x4 24” o.c. 11” cavity; taped ½” CDX sheathing air sealed with tape; EPS foam. Siding is reclaimed metal, wood, and natural hydraulic lime. Total = R-47.
- **Roof:** Snap-lock metal and 40-year composition under solar panels.
- **Attic:** Unvented, conditioned attic, 2” R-14 spray foam + R-38 fiberglass batt. Total = R-52.
- **Foundation:** ICF foundation walls, 5” reclaimed foil-faced EPS under slab that is taped to ICFs.
- **Windows:** Triple-pane, low-e, argon-filled, vinyl frames; U=0.17.
- **Air Sealing:** 0.3 ACH 50.
- **Ventilation:** ERV, MERV 13 filters.
- **HVAC:** 3 ductless mini-split heat pumps.
- **Hot Water:** Heat pump water heater.
- **Lighting:** 50% LED on low-voltage 24-Volt DC circuits.
- **Appliances:** ENERGY STAR refrigerator, clothes washer, range, and condensing clothes dryer.
- **Solar:** 7.08-kW PV.
- **Water Conservation:** Compact plumbing design.
- **Energy Management System:** Whole house automation.
- **Other:** Wi-Fi-enabled electric car charging station. Passive solar design, daylighting.

CONTACT

Steve Weise
509-571-1351
steve@lfedc.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.