Layout: 2 bdrm, 2.5 bath, 2 fl, 1,725 ft²
Climate: IECC 5B, cold
Completed: April 2018
Category: affordable

MODELED PERFORMANCE DATA

• HERS Index: without PV 48; with PV 28
• Annual Energy Costs: without PV $850; with PV $450
• Annual Energy Cost Savings: without PV $850; with PV $450
• Annual Energy Savings: without PV 6,300 kWh, 400 therms; with PV 15,300 kWh, 400 therms
• Savings in the First 30 Years: $78,000

PROJECT DATA

Contact

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KEY FEATURES

• Walls: Double walls, 2x6 exterior and 2x4 interior 24” o.c. advanced framed, staggered studs; 10” R-40.7 blown fiberglass. Sprayer-applied sealant; ½” OSB; corrugated house wrap; fiber cement siding.
• Roof: Ice-and-water shield; waterproof underlayment; metal drip edge; 30-yr asphalt shingles.
• Attic: Vented attic; R-50 blown fiberglass; 14” raised heel trusses; sealed top plates.
• Foundation: Slab on grade, R-10 slab edge insulation.
• Windows: ENERGY STAR double-pane, argon-filled, vinyl frames; U=0.28, SHGC=0.41.
• Air Sealing: 3.2 ACH 50.
• Ventilation: Continuous exhaust fan, meets ASHRAE 62.2.
• HVAC: 92.1% AFUE furnace, 13 SEER air conditioner; mastic-sealed ducts in conditioned space.
• Hot Water: Tankless gas water heater, .97 EF.
• Lighting: 100% LED.
• Appliances: ENERGY STAR-rated refrigerator, dishwasher, and 4 exhaust fans.
• Solar: 2.56-kW PV system.
• Water Conservation: WaterSense fixtures, recirculation pump, drought-tolerant and climate-specific plants.
• Energy Management System: Internet-based tracking of PV production.
• Other: Low-VOC paints, low-formaldehyde wood; WUFI modeled wall designs.