“In the end, our electric bill is $8.96 a month—just the electric utility service fee.” Homeowner

PROJECT DATA

• Layout: 2 bdrm, 1.75 bath, 1 fl, 2,000 ft²
• Climate: IECC 5B, cold
• Completed: August 2019
• Category: Custom for Buyer <3,000 ft²

MODELED PERFORMANCE DATA

• HERS Index: without PV 37; with PV -97
• Annual Energy Costs: without PV $1,050; with PV -$2,300
• Annual Energy Cost Savings: (vs typical new homes) without PV $1,100; with PV $3,900
• Annual Energy Savings: without PV 12,000 kWh; with PV 43,600 kWh
• Savings in the First 30 Years: without PV $45,400; with PV $164,300

KEY FEATURES

• Walls: Double Wall, R-38 total: two 2x4 24” o.c. offset stud walls spaced 4,” R-38 fiberglass batt with T-foil, ½” CDX sheathing, house wrap. Natural hydraulic lime and metal siding.
• Roof: Truss gable roof: ½” CDX plywood, breathable synthetic underlayment taped at seams and penetrations. 50-yr architectural asphalt shingles.
• Attic: Conditioned attic: 2” R-14 closed-cell spray foam on underside of roof deck, 12” R-38 fiberglass batt in roof truss bays.
• Foundation: Slab on grade foundation: ICF foundation wall. Under slab 5” R-20 reclaimed EPS foam taped at seams and to ICF walls.
• Windows: Triple-pane, krypton-filled, fiberglass, U=0.17, SHGC=0.26. Interior auto blinds.
• Air Sealing: 0.67 ACH 50.
• Ventilation: ERV, MERV 21 filter on ERV.
• HVAC: 2 ducted mini-split heat pumps, 1 ductless minisplit, 10.6 HSPF, 19 SEER. Small-diameter high-velocity ducting system.
• Hot Water: Heat pump water heater, 86% efficient, 50-gal. Central manifold, PEX piping.
• Lighting: 100% LED, lighting controls. Daylighting.
• Appliances: ENERGY STAR refrigerator, induction range, clothes washer/dryer.
• Solar: 24-kW rooftop panels.
• Water Conservation: EPA WaterSense-certified house, drought-resistant landscaping.
• Other: Electric vehicle charging station. VOC-absorbing drywall, polished concrete or cork floors, no-VOC interior doors, adhesives, sealants, paints, or stains.

CONTACT

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