



Photos courtesy of SCC Group and WATERSHED

“When we explain that our solar array is our back-up generator, they get excited. People here understand the need for back-up power.” Homeowners



PROJECT DATA

- **Layout:** 4 bd, 5.5 bath, 2 fl+bs 5,750 ft²
- **Climate:** IECC 2A, hot-humid
- **Completed:** April 2022
- **Category:** Custom Spec

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 39; with PV 20
- **Annual Energy Costs:** without PV \$2,100; with PV \$950
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$4,000; with PV \$5,150
- **Annual Energy Savings:** without PV 17,1560 kWh, 130 therms; with PV 24,600 kWh, 130 therms
- **Savings in the First 30 Years:** without PV \$196,200; with PV \$251,900

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KEY FEATURES

- **Walls:** 2x6, 16" o.c., R-28 total: advanced framed, dense-packed cellulose, engineered plywood, liquid-applied weather barrier, 2" rigid mineral wool; stucco.
- **Roof:** Truss hip roof: ¾" engineered plywood, rubberized asphalt underlayment; asphalt shingles with clay ridge tiles. All vents through walls.
- **Attic:** Unvented attic, 10.5" R-38 open-cell spray-foam on underside of roof deck.
- **Foundation:** Insulated basement: concrete walls covered with liquid-applied bituminous waterproofing, 1.5" mineral wool insulation, 1" grout, brick.
- **Windows:** Double-pane, argon-filled, fiberglass-framed, low-e, U=0.3, SHGC=0.19.
- **Air Sealing:** 1.5 ACH50; spray foam at top plates, band joists, all attic and floor penetrations; sill gasket under bottom plates. Ducts sealed with aerosolized acrylic sealant.
- **Ventilation:** Supply only; ventilating dehumidifiers to HVAC ducts. MERV 13 filters.
- **HVAC:** Two heat pumps, 9 HSPF, 17.5 SEER; one mini-split (19.7 SEER).
- **Hot Water:** Tankless gas water heaters, 0.95 UEF; central manifold, PEX pipes.
- **Lighting:** 100% LED, warm dimming in evening. Skylight in stairwell.
- **Appliances:** ENERGY STAR clothes washer, dryer, freezer, refrigerator, ceiling fans.
- **Solar:** 5.44-kW rooftop panels, 10-kW battery.
- **Water Conservation:** EPA WaterSense-rated fixtures. Rain garden for storm runoff.
- **Energy Management System:** PV app measures usage and production; charges battery if a storm is predicted. Smart thermostats. Leak detection on plumbing.
- **Other:** Low-emission products. Recycled-content concrete, countertops, mineral wool, roofing, cellulose insulation. Electric vehicle charging station installed.

