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.

“Zero Energy Ready Home Award Winner 2022”

**SCC Group and WATERSHED**

**Mobile Bay Inspiration Home | Fairhope, AL | SccGroupllc.com**

“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

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2022 WINNER

**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, 1½” 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.
- 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.

**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 17,156 kWh, 130 therms; with PV 24,600 kWh, 130 therms
- **Savings in the First 30 Years:** without PV $196,200; with PV $251,900

**CONTACT**

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Photos courtesy of SCC Group and WATERSHED