



Addison Homes

Trailside 7 | Greenville, SC | Addison-Homes.com



Photos courtesy of Addison Homes

“Living in a certified Zero Energy Ready Home has exceeded our expectations.” *Home owner*



PROJECT DATA

- **Layout:** 3 bdrm, 2 bath, 1 fl, 1,896 ft²
- **Climate:** IECC 3A, mixed-humid
- **Completed:** May 2018
- **Category:** custom spec

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 50; with PV 32
- **Annual Energy Costs:** without PV \$1,050; with PV \$750
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$600; with PV \$900
- **Annual Energy Savings:** without PV 6,000 kWh, 100 therms; with PV 9,200 kWh, 100 therms
- **Savings in the First 30 Years:** \$39,400

CONTACT

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KEY FEATURES

- **Walls:** 2x4 16" o.c. advanced framed, insulated headers, 2-stud corners; R-13 unfaced fiberglass batt, 7/16" OSB, 1" R-5 taped XPS: fiber cement siding and trim.
- **Roof:** Asphalt and PV shingles, synthetic felt ice-and-water shield in valleys and low roofs; kick-out flashing, drip edge flashing, vent gaskets, butyl tape flashing, radiant barrier.
- **Attic:** R-38 blown fiberglass on flat ceilings; R-5 rigid + R-13 fiberglass batt on kneewalls and skylight shafts.
- **Foundation:** Unvented crawlspace; 1.5" R-10 polyiso on interior; R-19 unfaced batts in rim joists, 1" R-5 XPS on exterior. Sprayed-on bituminous capillary break on walls and piers.
- **Windows:** Double-pane, low-e2; U=0.32, SHGC=0.22.
- **Air Sealing:** 1.9 ACH 50; foam gasket at top and bottom sill plates.
- **Ventilation:** Controlled central fan with fresh air intake and timed exhaust; MERV 16 filter.
- **HVAC:** Variable speed air-source heat pump, 23 SEER; R-8 ducts in conditioned crawl space.
- **Hot Water:** Tankless gas water heater 0.98 EF, with smart recirculating pump.
- **Lighting:** 100% LED, 3 ENERGY STAR ceiling fans. Skylights and solar tube.
- **Appliances:** ENERGY STAR refrigerator, dishwasher, and clothes washer.
- **Solar:** 3.15-kW PV system.
- **Water Conservation:** Low-flow fixtures, hot water recirculation loops, smart irrigation.
- **Energy Management System:** Internet-connected monitoring of PV and HVAC; remote monitoring of crawlspace for humidity, temperature, and bulk water leaks.
- **Other:** No-VOC paint; low-VOC adhesives; non-toxic pest control; no-added-formaldehyde insulation; KCMA ESP-labeled cabinets and trim; universal design.

