

Addison Homes

U.S. DOE

ZERO

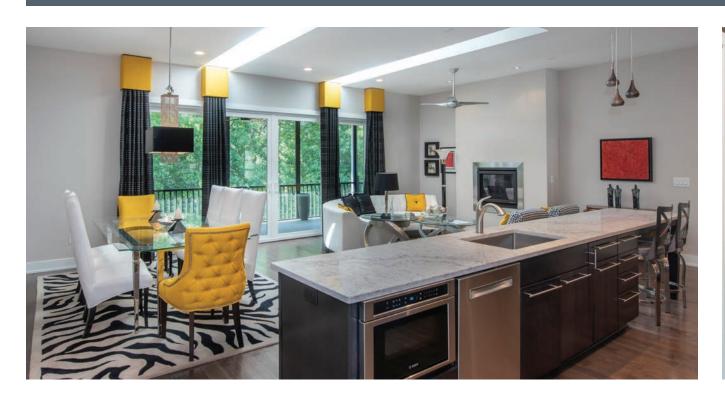
ENERGY READY HOME

2018 WINNER

Housing
Innovation
Awards

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











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 timered 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.





