



Photos courtesy of Beazer Homes

“We are paying the same in utility bills for a 70% increase in home size – that’s pretty significant.” Homeowner



PROJECT DATA

- **Layout:** 5 bdrm, 3 bath, 2 fls, 2,829 ft²
- **Climate:** IECC 4A, mixed-humid
- **Completed:** September 2022
- **Category:** Production

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 41
- **Annual Energy Costs:** without PV \$2,020
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$2,050
- **Annual Energy Savings:** without PV 20,560 kWh
- **Savings in the First 30 Years:** without PV \$85,800

KEY FEATURES

- **Walls:** Panelized 2x6, 24" o.c. + 1.5" R-7.5 XPS, R-29 total: Advanced framed, R-21 Kraft-faced fiberglass batt, housewrap, fiber-cement siding.
- **Roof:** Truss gable roof, 24" oc, 7/16" OSB roof sheathing, synthetic underlayment. Laminated architectural fiberglass shingles.
- **Attic:** Vented, 20" R-60 blown fiberglass, 12" R-38 batt fiberglass at tray ceiling. 14" raised-heel trusses.
- **Foundation:** Slab on grade, R-10 installed at perimeter down 24" and out 24."
- **Windows:** Triple-pane windows, U=0.24, SHGC=0.25. Low-e, argon fill, vinyl framed.
- **Air Sealing:** 2.38 ACH50, traditional air-sealing practices and whole-house aerosolized acrylic air sealant process.
- **Ventilation:** ERV, attached to central HVAC air handler, with humidity sensors, ECM motor, self balancing; MERV 8 filters.
- **HVAC:** Central air source heat pump, 10 HSPF, 18 SEER; small-diameter 3" and 4" supply ducts in floor and wall cavities.
- **Hot Water:** Heat pump water heater, 50-gal, 3.8 UEF. Compact plumbing layout, central water heater location.
- **Lighting and Appliances:** LED lighting, ENERGY STAR appliances.
- **Solar:** None.
- **Other:** First Beazer community to adopt DOE Zero Energy Ready Home certification for all homes.

CONTACT

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