



Photos courtesy of Insight Homes

“My last home had an electric bill of \$350 per month. The current bill for this home is around \$200 per month!” Homeowner



## PROJECT DATA

- **Layout:** 3 bdrm, 3 bath, 2 fl, 2,365 ft<sup>2</sup>
- **Climate:** IECC 4A, mixed-humid
- **Completed:** March 2024
- **Category:** Production

### MODELED PERFORMANCE DATA

- **ERI:** without PV 53
- **Annual Energy Costs:** without PV \$4,150
- **Annual Energy Cost Savings:** (versus typical new homes) without PV \$750
- **Annual Energy Savings:** without PV 20 kWh
- **Savings in the First 30 Years:** without PV \$31,400

## CONTACT

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## KEY FEATURES

- **Walls:** Panelized, 2x6 24" o.c., advanced framed, R-23 total: coated OSB sheathing with taped seams, blown fiberglass, vinyl siding.
- **Roof:** Gable truss roof, 7/16" OSB sheathing, roofing paper, ice and water shield, double layer of starter shingles along roof rake, architectural shingles. 15" overhangs.
- **Attic:** Vented, 16.25" R-49 blown fiberglass; 12" R-38 batt fiberglass in vaulted ceilings. Sloped ceiling plane. 18" raised-heel trusses. No HVAC in attic.
- **Foundation:** Unvented, conditioned crawlspace: poured concrete walls; 10-mil poly vapor barrier sealed from ground to 18" up foundation wall, 2" R-10 XPS foam board attached to interior walls. R-19 open-cell spray foam in band joists.
- **Windows:** Double-pane windows, U=0.28, SHGC=0.19, low-e, argon fill.
- **Air Sealing:** 3.45 ACH50; two-stage air sealing approach: pre-drywall all penetrations are through subfloor, top plates, and exterior walls and around windows and doors are sealed with low-expansion foam. Post-drywall ceiling holes and top-plates sealed from attic.
- **Ventilation:** Exhaust-only ventilation integrated with HVAC with MERV 13 filters.
- **HVAC:** Central air-source heat pump, 9.95 HSPF, 20 SEER.
- **Hot Water:** Tankless propane water heater, 0.96 UEF. Central manifold system with PEX.
- **Lighting and Appliances:** ENERGY STAR appliances.
- **Solar:** 5 kW, no battery.
- **Energy Management System:** Online monitoring of power production.
- **Other:** PV monitoring at the individual module level.

