



Photos courtesy of BrightLeaf Homes

“Our most expensive gas bill for a 2,100-square-foot home was about \$35.” Home owners



PROJECT DATA

- **Layout:** 5 bdrm, 4 bath, 2 fl + bsmt, 3,120 ft²
- **Climate:** IECC 5A, cold
- **Completed:** February 2016
- **Category:** custom spec

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 38, with PV NA
- **Projected Annual Energy Costs:** without PV \$1,650, with PV \$NA
- **Projected Annual Energy Cost Savings:** (vs typical new homes) without PV \$1,150, with PV \$NA
- **Annual Energy Savings:** without PV 4,400 kWh, 960 therms; with PV NA

CONTACT

Rick Thompson
630-254-9745
rick@mybrightleafhome.com

KEY FEATURES

- **Walls:** Staggered 2x4s 12" o.c. on 2x6 plates, advanced framing; R-26 dense-packed cellulose, ½" coated OSB, taped house wrap, fiber cement siding. Window and door openings get flexible flashing and beveled sills.
- **Roof:** 24" o.c. engineered roof trusses; ½" coated OSB sheathing, 13" raised-heel trusses, 24" overhangs, 30-lb felt, ice-and-water shield at eaves. Light asphalt shingles.
- **Attic:** Vented: all top plates foamed, 16" R-60 blown cellulose, raised-heel trusses.
- **Foundation:** Basement; exterior 3" rigid XPS plus dimpled plastic drain mat, 2" XPS under slab, 10-mil vapor barrier.
- **Windows:** Vinyl-frame triple-pane, argon fill, low-e, U=0.22-0.18, SHGC=0.24.
- **Air Sealing:** 1.1 ACH 50.
- **Ventilation:** Air-cycler-controlled fresh air intake balanced to timered exhaust fans.
- **HVAC:** 96% AFUE gas furnace, 14 SEER AC. Ducts un-insulated, in conditioned space.
- **Hot Water:** Tankless gas, 0.97 EF.
- **Lighting:** 97% LED.
- **Appliances:** ENERGY STAR dishwasher, refrigerator, clothes washer, ceiling fans.
- **Solar:** None.
- **Water Conservation:** 100% WaterSense fixtures; compact plumbing layout.
- **Energy Management System:** None.
- **Other:** No-/low-VOC primer, paint, cabinets, flooring. Pre-wired for electric car charger. Weather-resistant fiber cement siding, structural roof truss connector screws, oversized foundation bolt washers. Graded for positive slope on all sides.

