



BrightLeaf Homes

Eco 3 Greenfill | LaGrange, IL | MyBrightLeafHome.com



Photos courtesy of BrightLeaf Homes

“Energy bills are less than half of our previous home with 20% more square footage.” Home owners



PROJECT DATA

- **Layout:** 5 bdrm, 3.5 bath, 2 fl + bsmt, 4,608 ft²
- **Climate:** IECC 5A, cold
- **Completed:** June 2016
- **Category:** custom spec

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 36, with PV 26
- **Projected Annual Energy Costs:** without PV \$1,750, with PV \$1,316
- **Projected Annual Energy Cost Savings:** (vs home built to 2015 IECC) with PV \$2,889
- **Annual Energy Savings:** with PV 273 MMBtu/yr

CONTACT

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KEY FEATURES

- **Walls:** Staggered 2x4s 12" o.c. on 2x6 plates, 2-stud corners, ladder blocking at wall intersections, right-sized insulated headers, window and door framing aligned with 12" o.c. wall studs, R-25 dense-packed cellulose, ½" coated OSB sheathing, air-sealed house wrap, fiber cement. Window and door openings get flexible flashing and beveled sills.
- **Roof:** Coated OSB sheathing, 13" raised-heel trusses, 24" overhangs, 30-lb felt, ice-and-water shield at eaves. ENERGY STAR light asphalt shingles.
- **Attic:** Vented: all top plates foamed, 16" R-60 blown cellulose, few penetrations.
- **Foundation:** Basement only 4-ft deep for daylight, insulated on exterior with 3" rigid XPS, 2" XPS beneath slab, drain mat over exterior insulation.
- **Windows:** Vinyl-frame triple-pane, low-e, U=0.22-0.18, SHGC=0.24.
- **Air Sealing:** 0.98 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:** 95% LED.
- **Appliances:** ENERGY STAR dishwasher, clothes washer.
- **Solar:** 2.8-kW PV.
- **Water Conservation:** 100% WaterSense fixtures.
- **Energy Management System:** None.
- **Other:** No-/low-VOC primer, paint, cabinets, flooring. Pre-wired for electric car charger.

