BrightLeaf Homes
Eco 3 Greenfill | LaGrange, IL | MyBrightLeafHome.com

“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

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.

CONTACT

Scott Sanders
scott@mybrightleafhome.com
630-254-9745

For more information on the DOE Zero Energy Ready Home program, go to http://energy.gov/eere/buildings/zero-energy-ready-home or scan the QR code.

Photos courtesy of BrightLeaf Homes

PNNL-SA-120900  September 2016
For more information on the DOE Zero Energy Ready Home program, go to http://energy.gov/eere/buildings/zero-energy-ready-home or scan the QR code.