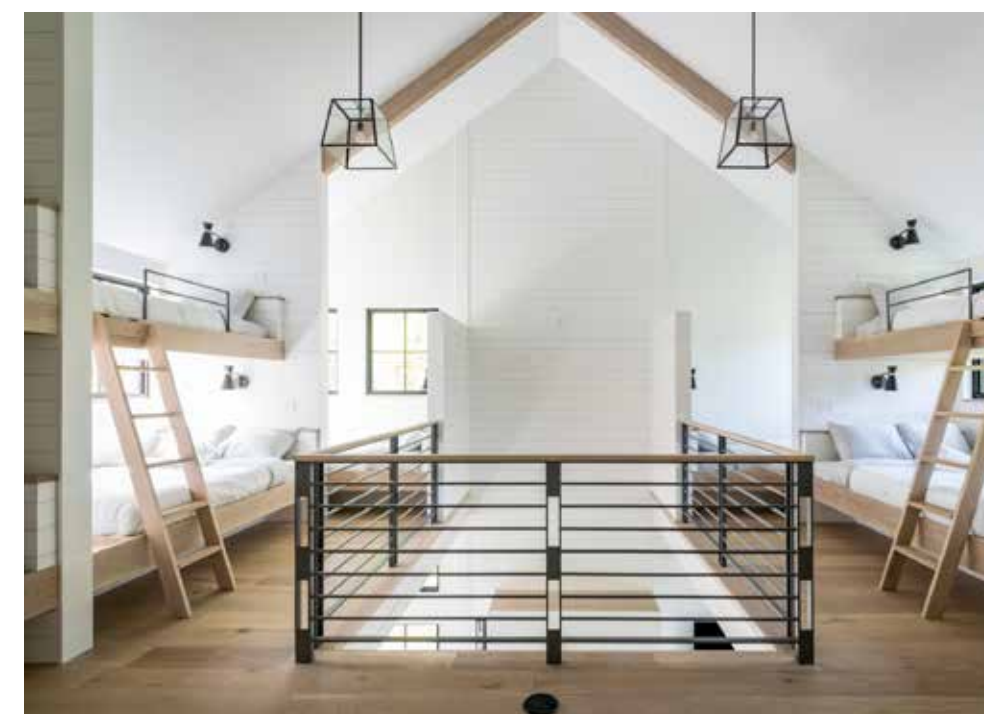




Photos courtesy of Envinity

“These strategies ... create high-performance homes [that are] affordable, healthy, and comfortable for every homeowner.” *Envinity*



PROJECT DATA

- **Layout:** 4 bdrm, 7 bath, 3 fls, 4,051 ft²
- **Climate:** IECC 5A, cold
- **Completed:** August 2023
- **Category:** Custom for Buyer

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 47
- **Annual Energy Costs:** without PV \$1,550
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$2,150
- **Annual Energy Savings:** without PV 22,300 (MH) kWh
- **Savings in the First 30 Years:** without PV \$87,200

CONTACT

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KEY FEATURES

- **Walls:** 2x6, 24" o.c., adv. framed, R-30 total: 5.5" R-21 dense-pack cellulose; coated OSB sheathing with EPS (R-9); all seams taped; draining housewrap; engineered wood siding.
- **Roof:** Gabled open-web vaulted trusses, plywood baffle, 2x strapping, 5/8" coated OSB sheathing, synthetic underlayment, standing seam metal roofing.
- **Attic:** Unvented vaulted ceilings, R-80 total: 22" R-80 blown cellulose in open-web roof trusses, 2x3 service cavity.
- **Foundation:** Slab on grade, 2.6" R-10 EPS on slab edge. Under slab: 10-mil vapor barrier, R-10 EPS, 4" crushed stone base.
- **Windows:** Triple-pane, U=0.15, SHGC=0.18, thin-film center pane, fiberglass frame.
- **Air Sealing:** 0.52 ACH 50. Windows edges, all sheathing, and air barrier seams were taped; under-slab vapor barrier liquid flashed.
- **Ventilation:** ERV with boost speeds and timers, supplies to each bedroom and bunk, pulls from baths, kitchens, mechanical room; IAQ sensor controls.
- **HVAC:** Mini-split air source heat pumps, 9.6 HSPF, 16.0 SEER, Cottage has 2 indoor air handlers, 1 outdoor compressor; Main house has 4 indoor, 2 outdoor.
- **Hot Water:** Gas tankless, 0.96 EF, 2 in main house, 1 in cottage; central manifold.
- **Lighting and Appliances:** LED lighting, ENERGY STAR appliances.
- **Solar:** None.
- **Energy Management System:** ERV has app-based controls.
- **Other:** Main house designed for high-occupancy short-term rentals, so extra attention to ventilation. No tank water heater. Variable refrigerant flow heat pumps.

