

ZeroNetNow

Old Kings Road | Catskill, NY | ZeroNetNow.com













PROJECT DATA

- Layout: 3 bdrm, 3 bath, 1 fl + bsmt, 5,394 ft²
- Climate: IECC 5A, cold
- Completed: December 2022
- Category: Custom for Buyer

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 29; with PV -8
- Annual Energy Costs: without PV \$2,650; with PV \$100
- Annual Energy Cost Savings: (VS typical new homes) without PV \$4,750 with PV \$7,450
- Annual Energy Savings: without PV 29,550 kWh; with PV 46,500 kWh
- Savings in the First 30 Years: without PV \$198,000; with PV \$311,300

CONTACT

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KEY FEATURES

- Walls: ICF: R-22 total, 11.25" ICF blocks with integrated air barrier and drainage plane. Lap siding.
- Roof: Truss gable roof, 5/8" coated OSB sheathing, architectural shingles.
- Attic: Unvented attic, vaulted ceilings. Spray foam on underside of roof decking 10" R-44 medium-density spray foam topped by 2" R-14 high-density spray foam.
- Foundation: Insulated basement, ICF walls, 11.25" R-22. Below-grade covered with waterproofing tar and cement boards. Under slab is 4.5" R-31 of closed-cell spray foam.
- Windows: Triple-pane, U=0.16, SHGC=0.25. Low-e, argon gas.
- Air Sealing: 0.25 ACH50. Liquid-applied flashings at all rough openings.
- Ventilation: ERV, supplies to return of central ducted HVAC, exhausts from bathrooms, kitchen, laundry, and mechanical room. Manual timered boost settings in bathrooms and kitchen. CO2 sensored controls for whole house.
- HVAC: Ground source heat pump, 4.8 COP, hydronic radiant heating. 3-ton air-handler unit.
- Hot Water: Ground-source heat pump, 80-gallon storage tank, 2.66 EF. Central manifold.
- Lighting and Appliances: LED lighting, ENERGY STAR appliances.
- Solar: 14.790 kWh; two 10-kWh batteries.
- Energy Management System: App allows homeowners to monitor their climate conditions, solar production, and home energy consumption in real time.
- Other: Disaster-resistant ICF construction. EV-ready for bi-directional charging with plans and infrastructure in place to install a 100-Amp electrical vehicle charger in the future.





