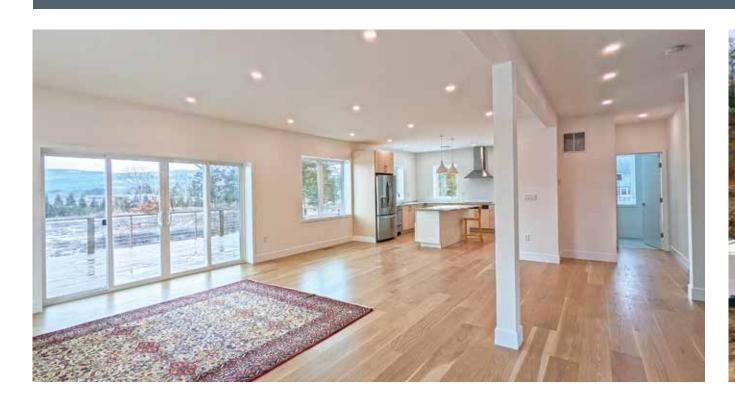


ZeroNetNow

Cooper Street Residence | New Paltz, NY | ZeroNetNow.com











PROJECT DATA

- Layout: 4 bdrm, 3.5 bath, 3 fl + bsmt, 3,718 ft²
- Climate: IECC 6A, cold
- Completed: February 2022
- Category: Custom for Buyer

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 26; with PV -13
- Annual Energy Costs: without PV \$2,000; with PV \$250
- Annual Energy Cost Savings: (VS typical new homes) without PV \$4,500; with PV \$6,250
- Annual Energy Savings: without PV 25,250 kWh; with PV 40,100 kWh
- Savings in the First 30 Years: without PV \$182,950; with PV \$254,100

CONTACT

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KEY FEATURES

- Walls: ICF walls, R-22 total: 11.25" ICF blocks, engineered wood siding.
- Roof: Gable truss roof, coated OSB sheathing, 1"x3" furring strips, self-adhered membrane, solar PV shingles.
- Attic: Unvented attic, vaulted ceilings: 10" R-44 medium-density spray foam topped by 2.5" R-18 high-density spray foam.
- Foundation: Insulated basement: ICF blocks R-22, 11.25" wide.
- Windows: Triple-pane, argon and kypton filled, low-e, vinyl; U=0.17-0.20, SHGC=0.21-0.25.
- Air Sealing: ACH50 = 1.48 CFM50. Spray foam under slab and on attic walls and ceiling; ICF walls with liquid-applied flashings at all rough openings and penetrations.
- Ventilation: ERV with MERV 11 and 6 filters, demand-controlled ventilation, CO2 sensors.
- HVAC: Heat pump, ground-loop config, 5.1 COP, variable-speed compressor, 34 EER.
- Hot Water: Ground-source heat pump water heater, 80-gal, 2.66 EF.
- Lighting: 100% LED, motion sensors, large windows.
- Appliances: ENERGY STAR refrigerator, dishwasher, clothes washer and dryer.
- Solar: 13,74-kW roof shingles.
- Water Conservation: EPA WaterSense fixtures; central manifold, PEX piping.
- Energy Management System: CO2 sensors in master bedroom, return duct, and at kitchen trigger boost setting on the ERV. Wi-Fi monitoring of energy production and end uses.
- Other: Low-VOC products. ICF thermal mass holds temp through power outages. EV ready.





