

# Paul Torcellini

Eastford Farm Bungalow | Eastford, CT















### PROJECT DATA

- **Layout:** 3 bdrm, 2 bath, 2 fl + bsmt, 3,597 ft<sup>2</sup>
- Climate: IECC 5A, coldCompleted: March 2016
- Category: custom for buyer

#### **MODELED PERFORMANCE DATA**

- **HERS Index:** without PV 35, with PV 2
- Projected Annual Energy Costs: without PV \$2,303, with PV \$80
- Projected Annual Energy Cost Savings:
   (vs home built to 2009 IECC) without
   PV \$3,246, with PV \$5,469
- Annual Energy Savings: without PV 17,404 kWh, with PV 29,758 kWh

# CONTACT

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## **KEY FEATURES**

- Walls: Double-stud walls, 12" cavity dense-packed with fiberglass insulation (R-52); plywood sheathing taped at seams to act as drainage plane; fiber-cement lap siding.
- Roof: Taped plywood roof decking, furring strips, standing seam metal roof.
- Attic: Insulated along roof line with R-60 to R-80 fiberglass dense packed in roof rafters.
- **Foundation:** Daylight basement of poured concrete walls insulated on interior with R-10 rigid foam + fiberglass batts in stud cavities.
- Windows: Double-pane, double-hung, argon filled, low-e coating. South U=0.31, SHGC=0.48; all other sides: U=0.29, SHGC=0.24.
- Air Sealing: 0.75 ACH 50.
- Ventilation: HRV with timered high-speed boost for kitchen and bath spot exhaust.
- **HVAC:** CO<sub>2</sub> air-to-water heat pump for radiant floor heat, 4 COP; ductless mini-split heat pump for cooling 26 SEER and supplemental heating, 12.5 HSPF.
- Hot Water: Air-to-water heat pump with 80-gal storage tank, 2.5 EF.
- Lighting: 100% LED.
- **Appliances:** ENERGY STAR refrigerator.
- Solar: 9.4-kW PV. Emergency circuits tied to inverters in case of grid disruption.
- Water Conservation: WaterSense fixtures, separate black water and gray water plumbing, rainwater collection from metal roof, low-irrigation landscaping.
- Energy Management System: Radiant heat thermostats for each room.
- Other: No-VOC paints, glues, finishes; wired for electric car station.





