



United Way of Long Island

United Veterans Beacon House | Deer Park, NY | UnitedWayLI.org



Photos courtesy of United Way of Long Island

“The DOE ZERH program is the best solution for the type of housing we produce.”
Rick Wertheim Senior Vice President Housing & Green Initiatives, United Way of Long Island



PROJECT DATA

- **Layout:** 4 bdrm, 2 bath, 2 fl + bsmt, 1,890 ft²
- **Climate:** IECC 4A, mixed-humid
- **Completed:** May 2016
- **Category:** affordable

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 32, with PV 9
- **Projected Annual Energy Costs:** without PV \$2,283, with PV \$676
- **Projected Annual Energy Cost Savings:** (vs home built to 2009 IECC) without PV \$873, with PV \$2,567
- **Annual Energy Savings:** without PV 4,364 kWh, with PV 12,833 kWh

CONTACT

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KEY FEATURES

- **Walls:** Double 2x4 24" o.c. stud wall for 8" cavity filled with dense-packed cellulose, advanced framing, 1/2" coated OSB sheathing, two layers of 3/4" rigid insulation, furring strips, vinyl siding.
- **Roof:** Ice-and-water shield at valleys, drip line, roof edges, 30# felt, architectural fiberglass shingles.
- **Attic:** Vented attic, raised-heel trusses, R-60 blown cellulose.
- **Foundation:** Basement, poured concrete with 2.5" R-12.5 polyiso on interior. Exterior covered with elastomeric waterproofing membrane plus fiber protection board to footing.
- **Windows:** Vinyl-framed, double-pane, low-e, argon-filled windows, U=0.2, SHGC=0.24.
- **Air Sealing:** 3.25 ACH 50.
- **Ventilation:** ERV, MERV 13 filter.
- **HVAC:** Hydrocoil split air system attached to 95 AFUE wall-hung gas-fired boiler, 16 SEER AC.
- **Hot Water:** Wall-hung boiler.
- **Lighting:** 85% LED, 15% fluorescent, motion controlled exterior lighting.
- **Appliances:** ENERGY STAR refrigerator, dishwasher, and clothes washer.
- **Solar:** 6.9-kW PV.
- **Water Conservation:** WaterSense fixtures and irrigation.
- **Energy Management System:** Wifi-enabled thermostat.
- **Other:** Low-VOC paint and finishes, formaldehyde-free furnishings.

