



United Way of Long Island

Community Housing Innovations | Coram, NY | UnitedWayLI.org



Photos courtesy of United Way of Long Island

"It costs LESS for non-profits to own a ZERH than a code-built, low-cost-per-square-foot home." Rick Wertheim, United Way of Long Island



PROJECT DATA

- **Layout:** 5 bdrm, 2 baths, 2 fl, 2,588 ft²
- **Climate:** IECC 4A, mixed-humid
- **Completed:** April 2018
- **Category:** affordable

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 38; with PV 8
- **Annual Energy Costs:** without PV \$2,300; with PV \$450
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$750; with PV \$2,650
- **Annual Energy Savings:** without PV 3,800 kWh; with PV 13,100 kWh
- **Savings in the First 30 Years:** \$130,000

KEY FEATURES

- **Walls:** 2x6 24" o.c.; 5/8" CDX plywood sheathing; house wrap; furring strips; 2 layers 3/4" rigid polyiso with taped seams; vinyl siding.
- **Roof:** 5/8" CDX plywood decking; ice-and-water shield at valleys, drip line, and roof edges; 30# felt; architectural fiberglass shingles.
- **Attic:** Vented attic; 14" R-51 loose-fill cellulose; elastomeric liquid-applied air sealing.
- **Foundation:** Slab on grade; 2.5" R-10 rigid polyiso on inside of 3' stem wall and below slab.
- **Windows:** Double-pane, low-e, argon-filled; U=0.17, SHGC=0.20.
- **Air Sealing:** 2.5 ACH 50.
- **Ventilation:** ERV; MERV 13 filter.
- **HVAC:** Hydrocoil split-air system attached to 95 AFUE wall-hung gas-fired boiler, 13 SEER AC.
- **Hot Water:** Wall-hung boiler to 40-gallon tank.
- **Lighting:** 100% LED; motion-controlled exterior lighting; occupancy and vacancy sensor in utility rooms and bedrooms.
- **Appliances:** ENERGY STAR-rated refrigerator, dishwasher, and clothes washer.
- **Solar:** 7.83-kW PV system.
- **Water Conservation:** WaterSense toilets and fixtures.
- **Energy Management System:** Wi-Fi enabled smart thermostat, tracks energy usage, IAQ, leak detection.
- **Other:** Low-VOC paints and finishes; no-formaldehyde window treatments and furnishings. No carpet. Low-level carbon monoxide detector, smart indoor air monitoring device.

CONTACT

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