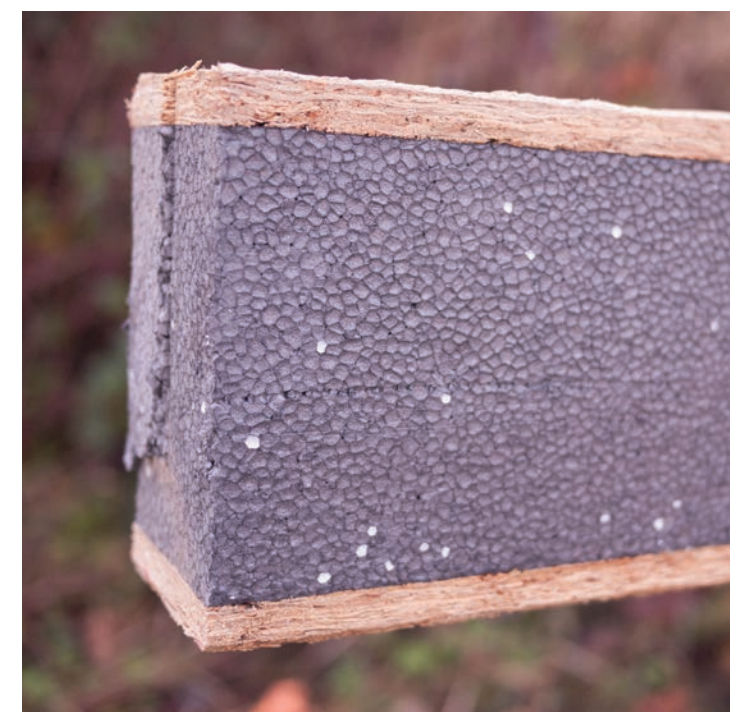




"A positive-energy home...generates enough extra solar power to run an electric car...Amazing, right?" TC Legend Homes



PROJECT DATA

- **Layout:** 4 bdrm, 4 bath, 3 fl + bsmt, 3,160 ft²
- **Climate:** IECC 4C, marine
- **Completed:** December 2017
- **Category:** custom for buyer

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 41; with PV 0
- **Annual Energy Costs:** without PV \$1,400; with PV \$100
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$2,300; with PV \$3,550
- **Annual Energy Savings:** without PV 11,500 kWh; with PV 21,650 kWh
- **Savings in the First 30 Years:** \$156,700

CONTACT

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KEY FEATURES

- **Walls:** R-29 6.5" graphite SIPs; fiber cement siding, mastic air sealing at all joints and panels, R-30 spray foam on rim joists.
- **Roof:** R-49 10.25" SIPs.
- **Attic:** Vaulted ceilings.
- **Foundation:** Slab on grade; 4" R-20 EPS under slab; ICF stem walls, R-23 perimeter insulation. Stained concrete floors.
- **Windows:** Triple-pane, low-e, argon-filled, wood frames; U=0.14, SHGC=0.35.
- **Air Sealing:** 0.48 ACH 50.
- **Ventilation:** HRV, MERV 13 filter.
- **HVAC:** Air-to-water heat pump, 4.5 COP.
- **Hot Water:** Air-to-water heat pump, 4.5 COP.
- **Lighting:** 100% LED, daylighting.
- **Appliances:** ENERGY STAR refrigerator and clothes washer. Induction range; condensing clothes dryer.
- **Solar:** 9.9-kW PV system.
- **Water Conservation:** 10,000-gallon rainwater storage for potable water.
- **Energy Management System:** Wireless PV and energy usage monitor.
- **Other:** 2 electric car charging stations. Low- or no-VOC products. No PVC. Passive solar design. Capable of 6 weeks off-grid for power and water.

