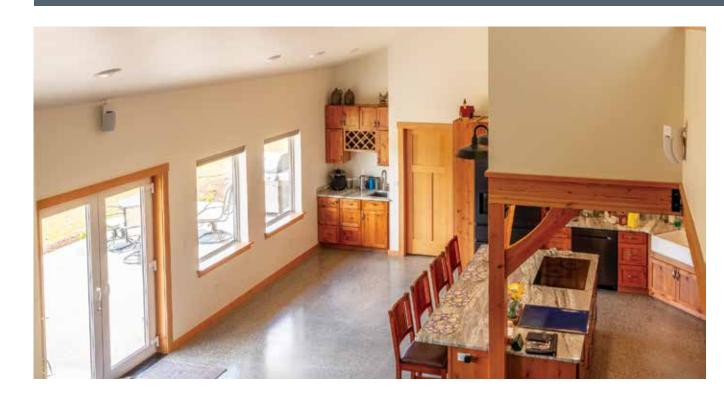


# TC Legend Homes

Everson Net Positive | Bellingham, WA | TCLegendHomes.com













### PROJECT DATA

- **Layout:** 4 bdrm, 3 bath, 2 fls, 2,538 ft<sup>2</sup>
- Climate: IECC 4C, marine
- Completed: March 2020
- Category: Custom for Buyer <3,000 ft<sup>2</sup>

#### MODELED PERFORMANCE DATA

- **HERS Index:** without PV 33; with PV -19
- Annual Energy Costs: without PV \$750; with PV -\$300
- Annual Energy Cost Savings: (vs typical new homes) without PV \$1,450; with PV \$2,450
- Annual Energy Savings: without PV 11,200 kWh; with PV 23,500 kWh
- Savings in the First 30 Years: without PV \$60,000; with PV \$103,200

# CONTACT

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## KEY FEATURES

- Walls: SIPs, R-29 total: 6.5" R-29 graphite SIPs, house wrap, fiber cement siding.
- Roof: SIP roof: 12.25" R-59 graphite SIPs, membrane, standing seam metal roof.
- Attic: No attic.
- Foundation: 4" R-20 rigid foam under slab, 5" R-24.3 ICF stem wall.
- Windows: Triple-pane, argon-filled, low-e3, vinyl-frame, U=0.14 fixed, U=0.16 casement, SHGC=0.33 to 0.44. Tuned to direction. Automated window blinds.
- Air Sealing: 0.47 ACH 50, all SIP seams caulked and taped. Aerosol whole-house sealant.
- Ventilation: HRV, ducted, MERV 13 filters, humidity and CO2 sensored, boost setting.
- **HVAC:** Air-to-water heat pump, 3.92 COP (heat), 6.75 COP (cool), 23.02 EER. Uses HRV ducts to distribute hot and cold air, plus radiant floor.
- Hot Water: Combi uses space heating air-to-water heat pump, 3.93 COP. 80-gal hot water storage tank + 40-gal buffer tank to prevent short cycling. Passive solar design.
- Lighting: 100% LED. Daylighting. Clerestory windows. Automated and remote controls.
- Appliances: ENERGY STAR refrigerator, dishwasher, and clothes washer, clothes dryer.
- Solar: 12.4 kW, 40 310-W panels. Roof sized for 80+ panels. Wired for future battery.
- Water Conservation: EPA WaterSense fixtures. Central manifold plumbing with PEX pipe. Drought-resistant landscaping. Rainwater collected to central sump for irrigation.
- Energy Management System: Automated, internet, and voice-controlled lighting, blinds, and HVAC. HRV triggered by CO<sub>2</sub> and humidity sensors.
- Other: EV charging, no-VOC paint, Greenguard Gold SIPs. ADA features.





