Bellingham Bay Builders
Fairhaven High Performance | Bellingham, WA | BellinghamBayBuilders.com

“Designed to optimize energy performance and provide a healthy indoor environment, and last for generations,” Bellingham Bay Builders

PROJECT DATA
• Layout: 3 bdrm, 2.5 bath, 2 fl, 2,828 ft²
• Climate: IECC 4C, marine
• Completed: September 2017
• Category: custom for buyer

MODELED PERFORMANCE DATA
• HERS Index: without PV 37; with PV 2
• Annual Energy Costs: without PV $950; with PV $150
• Annual Energy Cost Savings: (vs typical new homes) without PV $2,250; with PV $3,100
• Annual Energy Savings: without PV 18,100 kWh; with PV 28,000 kWh
• Savings in the First 30 Years: $135,700

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KEY FEATURES
• Walls: 2x6 conventional framing, 5” blown-in fiberglass, coated tapered OSB, 3” rigid mineral wool insulation on exterior, ¼” rain screen battens, fiber cement siding.
• Roof: Drywall, 1.5” spacers, taped OSB air barrier, 18” parallel chord trusses, two layers of R-30 fiberglass batts, ½” roof sheathing, metal roofing.
• Attic: Vented vaulted ceilings with 2 layers of R-30 fiberglass batts (R-60 total).
• Foundation: Daylight basement - 4" R-16 EPS under slab; poly vapor barrier beneath slab and up below-grade walls; Interior walls 2x4 24” o.c. with batt. Total wall = R-25.
• Windows: Double-pane, low-e, composite frames, avg. U=0.25, SHGC=0.30.
• Air Sealing: 1.0 ACH 50.
• Ventilation: HRV, 116 CFM, 42.0 watts.
• HVAC: Ductless mini-split, 3 indoor heads, 23.0 SEER, 12.5 HSPF.
• Hot Water: Heat pump water heater; intake air ducted from vented garage attic, exhaust air ducted outside.
• Lighting: 100% LED, ENERGY STAR ceiling fan.
• Appliances: ENERGY STAR refrigerator, dishwasher, clothes washer, clothes dryer, heat pump water heater, and HRV.
• Solar: 8.96-kW PV system.
• Water Conservation: Low-flow fixtures, greywater diversion valve installed for future.
• Energy Management System: None.
• Other: Electric car charging station, salvaged kitchen cabinets.

For more information on the DOE Zero Energy Ready Home program, go to http://energy.gov/eere/buildings/zero-energy-ready-home or scan the QR code.

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Photos courtesy of Bellingham Bay Builders

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