	House Components	Existing Home	Larsen Truss
	Ceiling with Attic Space	2x4 24 o/c R40 FG fill	2x4 24 o/c R40 FG fill
	Cathedral / Vault / Flat	None	None
	Above Grade Walls / Garage Wall	R12 batt	Larsen truss - tall
	Exposed Floors	R28 batt + 2" medium density spray foam	R28 batt + 2" medium density spray foam
ENVELOPE	Foundation Wall	R19 batt + 1" EPS II	R19 batt + 1" EPS II
	Under Basement Slab	R12	R12
	Windows & Sliding Glass Doors	Double glazed (U-val=2.05, SHGC=0.53)	Double glazed (U-val=2.05, SHGC=0.53)
	Doors	Fibreglass Medium density spray foam core (R5.6)	Fibreglass Medium density spray foam core (R5.6)
	Airtightness	3.6 ACH	1.5 ACH
	Principle Ventilation	76.0% SRE HRV	76.0% SRE HRV
ည္	Space Heating	96.0% AFUE furnace, ENERGY STAR® certified	96.0% AFUE furnace, ENERGY STAR® certified
	Cooling & Heat Pumps	14.50 SEER A/C, ENERGY STAR® certified	14.50 SEER A/C, ENERGY STAR® certified
	Domestic Water Heater	0.95 EF natural gas instantaneous (condensing)	0.95 EF natural gas instantaneous (condensing)
NH OH	Drain Water Heat Recovery	48.9% DWHR (plumbed to WH only)	48.9% DWHR (plumbed to WH only)
	On-site Generation and Storage		
	<u>-</u>	None	None
	Transportation Bathroom Faucats	None	None
	Bathroom Faucets Shower Heads	None	None
HE	Shower Heads	None	None
	Clothes Washer	None	None
	Dishwasher	None	None
	Lighting and Appliances	None	None
	Energy Use Monitoring System SIMULATION RESULTS	None	None
		Standard Operating Conditions	Standard Operating Conditions
	Relative Base Case	Existing Home	Existing Home
	Total Energy Consumption (GJ) Energy Consumption Reduction	111.18 -	74.99 32.55%
	Space Conditioning & DHW Consumption Reduction	-	42.30%
	· ,	114.33 68.09	72.41 30.88
	, , , , , ,	0.47%	36.97%
	EUI (GJ/m²) TEDI (kWh/m²)	0.63 108.0	0.43 49.0
	MEUI (kWh/m²)	135.7	78.3
19		7.99	6.19
<u>~</u>	Operational GHG Emission Reduction HOT2000 Design Heat Loss (BTU/h)	41,340	22.51% 24,436
PER	HOT2000 Design Heat Gain (BTU/h)	10,603	9,946
	` ,	71 22	48 13
	F280-12 Design Heat Loss (BTU/h)	39,052	23,197
	F280-12 Design Heat Gain (BTU/h) NBC 2020 Performance Tier	15,453 1	14,324
		9.85%	47.98%
		0.47% Page (3110 / 3376)	36.97% Page (2017 / 2276)
	Peak Cooling Validation (Prop. / Ref., W) PCF 1869 - Energy Use Intensity Tier	Pass (3110 / 3276) 0	Pass (2917 / 3276) 4
		4.48	2.58
	PCF 2004 - Operational Emissions Performance Level Primary Space Heating	E (22.35%) 69.4 GJ (63%)	C (55.33%) 31.5 GJ (42%)
	Secondary Space Heating	0.0 GJ (0%)	0.0 GJ (0%)
END USE	Primary DHW Heating Secondary DHW Heating	11.2 GJ (10%) 0.0 GJ (0%)	11.2 GJ (15%) 0.0 GJ (0%)
ENERGY E	Lights & Appliances	25.6 GJ (23%)	25.6 GJ (35%)
		1.8 GJ (2%)	1.8 GJ (2%)
		2.7 GJ (2%) 4.7 GJ (4%)	■ 4.1 GJ (6%) ■ 4.7 GJ (6%)
ဟ	Main Walls	41.9 GJ (37%)	11.9 GJ (16%)
FOS	Deere	0.4.0.1.00()	
HEAT LOSS	Doors Exposed Floors	2.4 GJ (2%) 0.2 GJ (0%)	2.4 GJ (3%) 0.2 GJ (0%)

	Windows	24.6 GJ (22%)	24.6 GJ (34%)
	Foundation	15.9 GJ (14%)	14.7 GJ (20%)
	Mechanical Ventilation & Air Infiltration	24.6 GJ (22%)	13.9 GJ (19%)
FUEL	Est. Natural Gas Consumption (GJ)	80.27	42.52
	Est. Electricity Consumption (GJ)	30.91	32.47
	Est. PV Electricity Production (GJ)	0.00	0.00
	Est. Propane Consumption (GJ)	0.00	0.00
	Est. Oil Consumption (GJ)	0.00	0.00
	Est. Wood Consumption (GJ)	0.00	0.00
	Est. Natural Gas Consumption (m³)	2,154.34	1,141.15
	Est. Electricity Consumption (kWh)	8,585.86	9,018.99
	Est. PV Electricity Production (kWh)	0.00	0.00
	Est. Propane Consumption (L)	0.00	0.00
	Est. Oil Consumption (L)	0.00	0.00
	Est. Wood Consumption (cord)	0.00	0.00
EST	Est. Annual Operating Expenses (\$/yr)	\$3,180.26	\$2,935.47
	Est. Percentage Op. Cost Savings	-	7.70%
	Est. Annual Natural Gas Cost	\$1,349.09	\$1,035.00
	Est. Annual Electricity Cost	\$1,831.18	\$1,900.48
	Est. Annual Propane Cost	\$0.00	\$0.00
		\$0.00	\$0.00
	Est. Annual Wood Cost	\$0.00	\$0.00
	Est. Simple Payback (y)	-	No costs provided
	Annual Capital Loan Cost	-	\$0.00
	Total Cost of Ownership	\$63,605.28 (over 20 years)	\$58,709.46
	Net Present Value	-	\$2,084.04