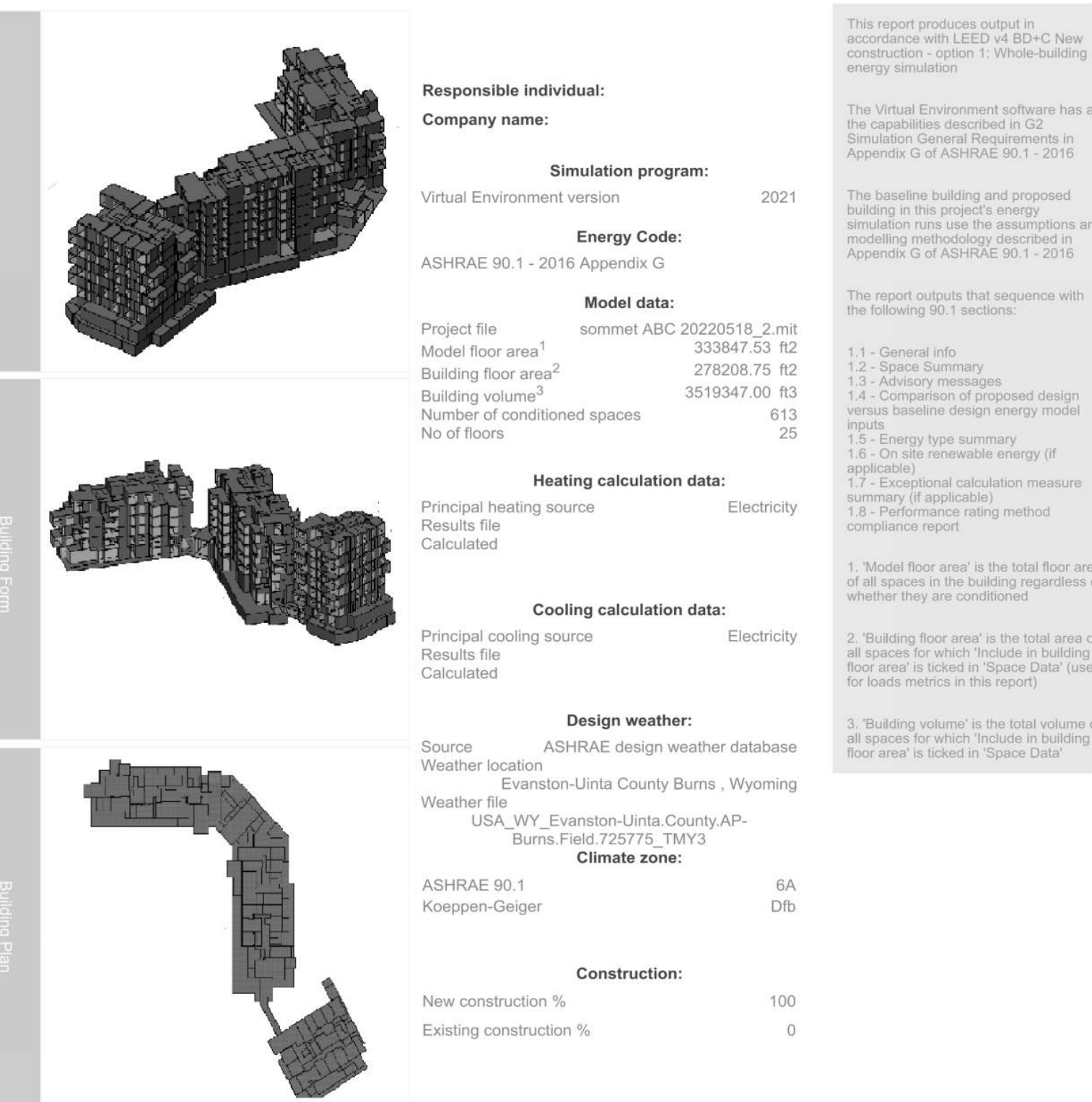


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[General info](#) [Space summary](#) [Advisory messages](#) [Proposed vs baseline](#)
[Energy type summary](#) [On site renewables](#) [Exceptional calc measure](#) [Reg](#)



1.1 General information



1.4 - Comparison of Proposed versus Baseline Design

Model input parameters		Proposed		Baseline	
	Description	Input value / % (area weighted)	Description	Input value / % (area weighted)	
Exterior wall construction	proposed IWB U-0.067	0.07	ExteriorBld - Below Ground Cond U=0.119 PSI Cond Ext Wall	0.12	
Exterior wall construction	proposed BOW U-0.119	0.16	PSI Cond Ext Wall (Porch) - Slab (134.83 Btu U/ft2.Hr)	0.08	
Roof construction	proposed U=0.032	0.03	PSI Cond Roof (Non Snow & Rain) 0.03 to Above Deck, R= (5.000)	0.08	
Floor/slab construction	Proposed Ground Floor U=0.032	0.03	PSI Cond Floor (1) - 0.03 Slab over R= (5.000)	0.03	
Floor/slab construction	Ground contact floor U=0.047 (272) floor	0.06	Ground contact floor U=0.047 (272) floor	0.06	
Window to gross wall ratio	proposed glazing operable U=0.27 (27) U=0.22 (22)	0.22	U=0.27 (27) U=0.22 (22) floor	0.22	
Window to gross wall ratio	26 / 32 (22 / 42) North / South / East / West	26 / 32 (22 / 42)	North / South / East / West	26 / 32 (22 / 42)	
Fenestration U (Value) (North)	proposed glazing operable U=0.27 SHGC=0.27	0.43	ASHRAE 90-1-2016, C24 Window Spec-Ren - Nonfactual C24 Window Spec-Ren - Nonfactual SHGC=0.40; VT=0.44	0.30	
Fenestration U (Value) (non-North)	proposed glazing operable U=0.27 SHGC=0.27	0.43	ASHRAE 90-1-2016, C24 Window Spec-Ren - Nonfactual C24 Window Spec-Ren - Nonfactual SHGC=0.40; VT=0.44	0.30	
Fenestration SHGC - North	proposed glazing operable U=0.27 SHGC=0.27	0.43	ASHRAE 90-1-2016, C24 Window Spec-Ren - Nonfactual C24 Window Spec-Ren - Nonfactual SHGC=0.40; VT=0.44	0.40	
Fenestration SHGC - non-North	proposed glazing operable U=0.27 SHGC=0.27	0.43	ASHRAE 90-1-2016, C24 Window Spec-Ren - Nonfactual C24 Window Spec-Ren - Nonfactual SHGC=0.40; VT=0.44	0.40	
Fenestration visual light transmittance (N)	proposed glazing operable U=0.27 SHGC=0.27	0.44	ASHRAE 90-1-2016, C24 Window Spec-Ren - Nonfactual C24 Window Spec-Ren - Nonfactual SHGC=0.40; VT=0.44	0.44	
Fenestration visual light transmittance	proposed glazing operable U=0.27 SHGC=0.27	0.44	ASHRAE 90-1-2016, C24 Window Spec-Ren - Nonfactual C24 Window Spec-Ren - Nonfactual SHGC=0.40; VT=0.44	0.44	
Shading devices					

1.8.1 (b) Baseline Energy Costs

Energy Type	Baseline Emission (t CO2e/yr)	Baseline Emission (t CO2e/yr)	Baseline Emission (t CO2e/yr)	Baseline Emission (t CO2e/yr)	Baseline Emission (t CO2e/yr)
Electricity	316,489.53	0.00	0.00	0.00	316,489.53
Gas	73,032.22	0.00	0.00	0.00	73,032.22
Coal	0.00	0.00	0.00	0.00	0.00
Oil	0.00	0.00	0.00	0.00	0.00
Renewables	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00
Subtotal	389,521.75	0.00	0.00	0.00	389,521.75
Baseline Costs:	389,472.76	0.00	0.00	0.00	389,472.76
Company's 2023 Emissions and Reductions by Scope and Sector					

1.2 - Space Summary

Building Use (Occupancy type)	Conditioned Areas sq ft		Un-conditioned Areas sq ft		Total Area sq ft		B/F (tasks 4.2.1.2)	
	A-2	H1b1	H1b1	H1b1	H1b1	H1b1		
BLDG: Multi-family	175,143	0	0	0	175,143	0		
Conference/Multi-Meeting/Multipurpose	604	0	0	0	604	0		
Office	22,123	0	0	0	22,123	0		
Space: Conference/All Other	2,615	0	0	0	2,615	0		
Space: Elevator/Mechanical	9,911	0	0	0	9,911	0		
Space: Elevator	1,007	0	0	0	1,007	0		
Space: Food preparation	1,192	0	0	0	1,192	0		
Space: Food service	3,009	0	0	0	3,009	0		
Space: Lobby	3,155	0	0	0	3,155	0		
Space: Locker room	2,778	0	0	0	2,778	0		
Space: Locker room	18,178	0	0	0	18,178	0		
Space: Office - Endused	0	0	0	0	0	0		
Space: Office - Shared	55,629	0	0	0	55,629	0		
Space: Restrooms	2,199	0	0	0	2,199	0		
Space: Showroom	70,255	0	0	0	70,255	0		
Space: Storage - #0002	16,449	0	0	0	16,449	0		
Space: VapourRoom	11,663	0	0	0	11,663	0		
	Totals	313,847.9	0	0	313,847.9	0		

1.3 - Advisory Messages

Advisory Messages	Proposed Building	Baseline Building	Difference
Number of hours heating loads not met:	116.0	175.000000	62.0
Number of hours cooling loads not met:	0.0	47.000000	-47.0
Number of warning messages:	0	0	0
Number of error messages:	0	0	0
Number of defaults overridden:	0	0	0

Spaces Excluded from UMLH Test per space type or application:
(voids, plenums, unconditioned spaces, and non-master rooms in an HVAC zone are always excluded)

Spaces Excluded from UMLH Test per inclusion in ASHRAE 55 Thermal Comfort Analysis:

1.8.1 Baseline Performance

energy in the baseline building									
End Use	Process	Baseline Energy Type	Units of Annual Demand	Baseline End Use Demand	Baseline End Use Demand	Baseline End Use Demand	Baseline End Use Demand	Baseline End Use Demand	Baseline End Use Demand
Unregulated Energy									
Interior Lighting	No	Electricity	Energy use kWh	2,156,336.75	0.00	0.00	0.00	2,156,336.75	0.00
Exterior Lighting Demand	No	Electricity	Demand MWh	548.00	0.00	0.00	0.00	548.00	0.00
Exterior Lighting	No	Electricity	Energy use kWh	17,896.00	0.00	0.00	0.00	87,460.00	0.00
Exterior Lighting Demand	No	Electricity	Demand MWh	15.00	0.00	0.00	0.00	4.00	0.00
Space Heating (Fossil Fuel)	No	Gas	Energy use kWh	7,402.00	0.00	0.00	0.00	7,702.00	0.00
Space Heating Demand	No	Electricity	Demand MWh	1.87	0.00	0.00	0.00	0.00	0.00
Space Heating	No	Electricity	Energy use kWh	2,717.521	0.00	0.00	0.00	2,787.521	0.00
Space Heating Demand	No	Electricity	Demand MWh	0.69	0.00	0.00	0.00	0.00	0.00
Space Cooling	No	Electricity	Energy use kWh	1,592,663.00	0.00	0.00	0.00	1,592,663.00	0.00
Space Cooling Demand	No	Electricity	Demand MWh	402.00	0.00	0.00	0.00	402.00	0.00
Fans (Interior)	No	Electricity	Energy use kWh	1,408,158.70	0.00	0.00	0.00	4,168,175.00	0.00
Fans (Interior) Demand	No	Electricity	Demand MWh	362.00	0.00	0.00	0.00	362.00	0.00
Fans (Parking)	No	Electricity	Energy use kWh	6,164.50	0.00	0.00	0.00	50,504.50	0.00
Fans (Parking) Demand	No	Electricity	Demand MWh	0.8	0.00	0.00	0.00	0.00	0.00
Pumps	No	Electricity	Energy use kWh	10,379.10	0.00	0.00	0.00	103,761.00	0.00
Pumps Demand	No	Electricity	Demand MWh	10.32	0.00	0.00	0.00	0.00	0.00
Heat Rejection	No	Electricity	Energy use kWh	23,668.37	0.00	0.00	0.00	233,678.00	0.00
Heat Rejection Demand	No	Electricity	Demand MWh	5.95	0.00	0.00	0.00	10.00	0.00
Sanitary Water Heating (Fossil Fuel)	No	Gas	Energy use kWh	2,068,443.13	0.00	0.00	0.00	2,068,443.13	0.00
Sanitary Water Heating (Fossil Fuel) Demand	No	Gas	Demand MWh	236.12	0.00	0.00	0.00	236.12	0.00
Sanitary Water Heating	No	Electricity	Energy use kWh	0.00	0.00	0.00	0.00	0.00	0.00
Sanitary Water Heating Demand	No	Electricity	Demand MWh	0.00	0.00	0.00	0.00	0.00	0.00
Refrigeration	Yes	Electricity	Energy use kWh	0.00	0.00	0.00	0.00	0.00	0.00
Refrigeration Demand	Yes	Electricity	Demand MWh	0.00	0.00	0.00	0.00	0.00	0.00
Elevators & Escalators	Yes	Electricity	Energy use kWh	238,891.00	0.00	0.00	0.00	238,891.00	0.00
Elevators & Escalators Demand	Yes	Electricity	Demand MWh	27.04	0.00	0.00	0.00	27.04	0.00
Hot Water	No	Gas	Energy use kWh	0.00	0.00	0.00	0.00	0.00	0.00
Hot Water Demand	No	Gas	Demand MWh	0.00	0.00	0.00	0.00	0.00	0.00
Motors Demand	No	Electricity	Demand MWh	0.00	0.00	0.00	0.00	0.00	0.00
Motors	No	Electricity	Energy use kWh	0.00	0.00	0.00	0.00	0.00	0.00
Control Panel and Power (Fossil Fuel)	No	Gas	Energy use kWh	0.00	0.00	0.00	0.00	0.00	0.00
Control Panel and Power (Fossil Fuel) Demand	No	Gas	Demand MWh	0.00	0.00	0.00	0.00	0.00	0.00
Humidification (Fossil Fuel)	No	Gas	Energy use kWh	0.00	0.00	0.00	0.00	0.00	0.00
Humidification (Fossil Fuel) Demand	No	Gas	Demand MWh	0.00	0.00	0.00	0.00	0.00	0.00
Dehumidification	No	Electricity	Energy use kWh	0.00	0.00	0.00	0.00	0.00	0.00
Dehumidification Demand	No	Electricity	Demand MWh	0.00	0.00	0.00	0.00	0.00	0.00
Total Electrical Energy		Electricity	Energy use kWh	9,770,516.43	0.00	0.00	0.00	9,770,516.43	0.00
Total Electrical Energy		Electricity	Demand MWh	2,104,629.47	0.00	0.00	0.00	2,104,629.47	0.00
Total Gas Demand		Gas	Energy use kWh	2,068,443.13	0.00	0.00	0.00	2,068,443.13	0.00
Unregulated Energy									
Office Equipment	Yes	Electricity	Energy use kWh	1,852,899.50	0.00	0.00	0.00	1,852,899.50	0.00
Office Equipment Demand	Yes	Electricity	Demand MWh	297.54	0.00	0.00	0.00	297.54	0.00
Other Computers/IT	Yes	Electricity	Energy use kWh	0.00	0.00	0.00	0.00	0.00	0.00
Other Computers/Servers	Yes	Electricity	Demand MWh	0.00	0.00	0.00	0.00	0.00	0.00
Cooling (Fossil Fuel)	Yes	Gas	Energy use kWh	0.00	0.00	0.00	0.00	0.00	0.00
Cooling (Fossil Fuel) Demand	Yes	Gas	Demand MWh	0.00	0.00	0.00	0.00	0.00	0.00
Cooling	Yes	Electricity	Energy use kWh	0.00	0.00	0.00	0.00	0.00	0.00
Cooling Demand	Yes	Electricity	Demand MWh	0.00	0.00	0.00	0.00	0.00	0.00
Interior Lighting (Process)	Yes	Electricity	Energy use kWh	0.00	0.00	0.00	0.00	0.00	0.00
Interior Lighting (Process) Demand	Yes	Electricity	Demand MWh	0.00	0.00	0.00	0.00	0.00	0.00
Fans (Process) Demand	Yes	Electricity	Demand MWh	0.00	0.00	0.00	0.00	0.00	0.00
Fans (Process) Demand	Yes	Electricity	Demand MWh	0.00	0.00	0.00	0.00	0.00	0.00
Fans (Process) (Fossil Fuel) Demand	No	Gas	Demand MWh	0.00	0.00	0.00	0.00	0.00	0.00
Other Processes (Fossil Fuel) Demand	No	Gas	Demand MWh	0.00	0.00	0.00	0.00	0.00	0.00
Other Processes	Yes	Electricity	Energy use kWh	0.00	0.00	0.00	0.00	0.00	0.00
Other Processes Demand	Yes	Electricity	Demand MWh	0.00	0.00	0.00	0.00	0.00	0.00
Total Gas Demand		Gas	Energy use kWh	0.00	0.00	0.00	0.00	0.00	0.00
Total Gas Demand		Gas	Demand MWh	1,852,899.50	0.00	0.00	0.00	1,852,899.50	0.00
Total Gas Demand		Gas	Demand MWh	1,852,899.50	0.00	0.00	0.00	1,852,899.50	0.00
Total Annual Unregulated Energy Use kWh/year				1,852,899.50				1,852,899.50	

8.2 Performance Rating Table - PRM Compliance

[illegible]

1.8.2 (b) Energy Cost & Consumption by energy Type - PRM Compliance

Energy Type	Units	Proposed Design		Baseline Design		Performance Cost Index (PCI)
		Energy Use (\$)	Cost (\$)	Energy Use (\$)	Cost (\$)	
Electricity	kWh	19,043,276.39	2,007,504.26	13,007,258.96	964,752.73	0.63
Subtotal (Model Outputs)		0.00	0.00	0.00	0.00	0.00
On-site Renewable Energy	Energy Generated (kWh)	0.00	0.00	0.00	0.00	0.00
Off-site Renewable Energy	Energy Generated (kWh)	0.00	0.00	0.00	0.00	0.00
Photovoltaic Panels	0.00	0.00	0.00	0.00	0.00	0.00
Wind Power	0.00	0.00	0.00	0.00	0.00	0.00
Water Heating	0.00	0.00	0.00	0.00	0.00	0.00
Exceptional Calculations	Energy Savings	Cost Savings		Cost Savings		
Summary		Proposed Design	Cost Savings	Baseline Design	Cost Savings	Performance Cost Index (PCI)
Total on-site Generation	kWh	19,131,044.6	2,007,504.26	13,007,258.96	964,752.73	0.64
Total off-site Generation	kWh	19,131,044.6	2,007,504.26	13,007,258.96	964,752.73	0.64

The Proposed design model is based on the permit drawing set.

The baseline design model is based on 2018 IECC 2018 C407.5.

The Proposed model saves 15.7% over the baseline design model complying with 2018 IECC 2018 C401.2 option 3.

Reserved for permit stamp

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principal architect _____

drawn by _____

checked by Checker

date 5/17/2024

revisions:

no.	date	by
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IFC Set 2 of 3
5/17/2024

ENERGY CODE
COMPLIANCE REPORT

M0.15