Measure Name	Measure Value	% Energy Savings	% GHG Savings	% Peak Savings	npv_total_per_m_sq	bc_step_code_tedi_kwh_per_m_sq	Envelope ($/m2)	Heating & Cooling ($/m2)	Lighting ($/m2)	SHW ($/m2)	Ventilation & Ductwork ($/m2)	Total ($/m2)
:shw_scale	0.25	28.60	28.60	7.00	740.25	23.93	0.00	0.00	0.00	7.50	0.00	7.50
:shw_scale	0.5	19.00	19.00	4.40	785.55	23.48	0.00	0.00	0.00	2.60	0.00	2.60
:shw_scale	0.75	9.40	9.40	0.00	830.41	23.04	0.00	0.00	0.00	-2.10	0.00	-2.10
:dcv_type	CO2_based_DCV	8.70	8.70	1.10	844.25	8.41	0.00	0.00	0.00	0.00	-12.70	-12.70
:erv_package	Plate-Existing	8.40	8.40	6.20	832.53	11.28	0.00	0.00	0.00	0.00	0.00	0.00
:erv_package	Plate-All	8.40	8.40	6.20	832.53	11.28	0.00	0.00	0.00	0.00	0.00	0.00
:erv_package	Rotary-Existing	8.20	8.20	6.10	833.41	11.47	0.00	0.00	0.00	0.00	0.00	0.00
:erv_package	Rotary-All	8.20	8.20	6.10	833.41	11.47	0.00	0.00	0.00	0.00	0.00	0.00
:electrical_loads_scale	0.5	6.20	6.20	0.20	841.79	24.64	0.00	0.30	0.00	0.00	-0.20	0.00
:lights_scale	0.50	3.60	3.60	0.30	853.16	23.75	0.00	0.20	0.00	0.00	-0.20	0.00
:fixed_wind_solar_trans	0.3	2.80	2.80	-2.50	852.14	29.54	-5.20	7.50	0.00	0.00	1.80	4.10
:infiltration_scale	0.5	2.60	2.60	10.60	856.11	18.87	0.00	1.40	0.00	0.00	-0.20	1.10
:fixed_wind_solar_trans	0.4	2.50	2.50	-1.50	853.16	26.73	-2.80	5.90	0.00	0.00	1.30	4.40
:nv_type	add_nv	2.50	2.50	0.00	881.96	22.71	0.00	0.00	0.00	0.00	-24.20	-24.20
:fixed_wind_solar_trans	0.2	2.20	2.20	-3.80	851.30	32.92	-2.40	8.20	0.00	0.00	1.80	7.70
:fixed_wind_solar_trans	0.5	1.40	1.40	-1.00	860.70	24.45	-2.80	3.40	0.00	0.00	0.90	1.40
:dcv_type	Occupancy_based_DCV	1.20	1.20	2.40	869.18	20.97	0.00	0.00	0.00	0.00	-6.10	-6.10
:daylighting_type	add_daylighting_controls	1.00	1.00	0.20	871.81	22.76	0.00	0.10	-7.90	0.00	-0.30	-7.70
:fixed_window_cond	1.6	1.00	1.00	4.80	899.41	20.71	-35.90	0.50	0.00	0.00	0.00	-35.40
:ext_wall_cond	0.183	0.50	0.50	2.10	873.63	21.82	-7.70	0.10	0.00	0.00	-0.30	-7.80
:adv_dx_units	Carrier WeatherExpert	0.40	0.40	0.00	867.31	22.63	0.00	0.00	0.00	0.00	-0.70	-0.70
:ext_wall_cond	0.21	0.40	0.40	1.40	871.15	22.09	-4.70	0.10	0.00	0.00	0.00	-4.60
:adv_dx_units	Lennox Model L Ultra High Efficiency	0.30	0.30	0.00	863.03	22.63	0.00	0.00	0.00	0.00	3.80	3.80
:ext_roof_cond	0.121	0.20	0.20	0.40	870.24	22.45	-2.70	0.10	0.00	0.00	-0.30	-2.90
:ext_roof_cond	0.247	0.10	0.10	0.60	868.39	22.45	-0.80	0.00	0.00	0.00	0.00	-0.80
:ext_roof_cond	0.138	0.10	0.10	0.00	868.67	22.53	-1.00	0.00	0.00	0.00	0.00	-1.00
:ext_roof_cond	0.142	0.10	0.10	0.20	868.56	22.56	-0.80	0.00	0.00	0.00	0.00	-0.80
:ext_wall_cond	0.278	-0.10	-0.10	-0.70	867.94	22.76	0.50	0.00	0.00	0.00	0.00	0.50
:ext_roof_cond	0.183	-0.10	-0.10	-0.70	867.40	22.77	1.70	-0.40	0.00	0.00	0.00	1.30
:ext_roof_cond	0.193	-0.20	-0.20	-0.60	866.35	22.83	3.00	-0.40	0.00	0.00	0.00	2.60
:ext_wall_cond	0.314	-0.30	-0.30	-1.10	865.50	23.12	4.30	-0.30	0.00	0.00	0.00	4.00
:ext_roof_cond	0.227	-0.40	-0.40	-0.60	866.06	23.01	4.00	-0.40	0.00	0.00	0.00	3.60
:fixed_window_cond	2.2	-1.20	-1.20	-4.50	847.52	24.75	26.10	-0.50	0.00	0.00	0.00	25.60
:fixed_window_cond	2.4	-2.10	-2.10	-6.80	838.16	26.24	39.50	-0.70	0.00	0.00	0.00	38.70
:airloop_economizer_type	DifferentialDryBulb	-16.50	-16.50	-10.90	937.68	47.58	0.00	0.00	0.00	0.00	0.00	0.00
:airloop_economizer_type	DifferentialEnthalpy	-16.70	-16.70	-10.90	938.26	47.58	0.00	0.00	0.00	0.00	0.00	0.00
:ecm_system_name	HS09_CCASHP_Baseboard	0.00	0.00	0.00	847.97	22.58	0.00	0.00	0.00	0.00	0.00	0.00
:ecm_system_name	HS08_CCASHP_VRF	0.00	0.00	0.00	924.80	25.39	0.00	0.00	0.00	0.00	0.00	0.00
:ecm_system_name	HS11_ASHP_PTHP	0.00	0.00	0.00	855.26	25.47	0.00	0.00	0.00	0.00	0.00	0.00
:ecm_system_name	HS14_CGSHP_FanCoils	0.00	0.00	0.00	994.53	23.23	0.00	0.00	0.00	0.00	0.00	0.00
:ecm_system_name	HS12_ASHP_Baseboard	0.00	0.00	0.00	850.23	22.58	0.00	0.00	0.00	0.00	0.00	0.00
:ecm_system_name	HS13_ASHP_VRF	0.00	0.00	0.00	923.56	25.39	0.00	0.00	0.00	0.00	0.00	0.00

Scatter plot — y-axis: cost_equipment_total_cost_per_m_sq; x-axis: baseline_energy_percent_better

Legend :chiller_type
- NECB_Default
- VSD

Sensitivity of :chiller_type by EUI

Legend:
- energy_eui_cooling_gj_per_m_sq
- energy_eui_heating_gj_per_m_sq
- energy_eui_fans_gj_per_m_sq
- energy_eui_heat_recovery_gj_per_m_sq
- energy_eui_interior_lighting_gj_per_m_sq
- energy_eui_interior_equipment_gj_per_m_sq
- energy_eui_water_systems_gj_per_m_sq
- energy_eui_pumps_gj_per_m_sq

y-axis: GJ/m2; x-axis: :chiller_type

NECB_Default: 0.069, 0.081, 0.048, 0.069, 0.036, 0.063, 0.178, 0.004

VSD: 0.069, 0.081, 0.048, 0.009, 0.036, 0.063, 0.178

Sensitivity of :chiller_type by Costing

Sensitivity of :adv_dx_units by EUI

Sensitivity of :adv_dx_units by Costing

Sensitivity of :lights_scale by EUI

Sensitivity of :lights_scale by Costing

Sensitivity of :shw_scale by EUI

Sensitivity of :shw_scale by Costing

Sensitivity of :airloop_economizer_type by EUI

Sensitivity of :airloop_economizer_type by Costing

Sensitivity of :fixed_wind_solar_trans by EUI

Sensitivity of :fixed_wind_solar_trans by Costing

Legend:
- cost_equipment_heating_and_cooling_total_cost_per_m_sq
- cost_equipment_lighting_total_cost_per_m_sq
- cost_equipment_shw_total_cost_per_m_sq
- cost_equipment_ventilation_total_cost_per_m_sq
- cost_equipment_thermal_bridging_total_cost_per_m_sq
- cost_equipment_envelope_total_cost_per_m_sq

Y-axis: $/M2
X-axis: :fixed_wind_solar_trans

:fixed_wind_solar_trans	0.2	0.3	0.4	0.5	0.6	NECB_Default
envelope	297.75	300.575	298.141	298.141	295.369	295.369
ventilation	40.737	40.737	41.255	41.688	42.544	42.544
shw	15.175	15.175	15.175	15.175	15.175	15.175
lighting	46.384	46.384	46.384	46.384	46.384	46.384
heating_and_cooling	39.259	40.034	41.382	44.152	47.502	47.502

Scatter plot

Y-axis: cost_equipment_total_cost_per_m_sq (447 – 455)
X-axis: baseline_energy_percent_better (0.0 – 1.0)

Legend — :daylighting_type
- NECB_Default
- none
- add_daylighting_controls

Sensitivity of :daylighting_type by EUI

Legend:
- energy_eui_cooling_gj_per_m_sq
- energy_eui_heating_gj_per_m_sq
- energy_eui_fans_gj_per_m_sq
- energy_eui_heat recovery_gj_per_m_sq
- energy_eui_interior lighting_gj_per_m_sq
- energy_eui_interior equipment_gj_per_m_sq
- energy_eui_water systems_gj_per_m_sq
- energy_eui_pumps_gj_per_m_sq

Y-axis: GJ/M2
X-axis: :daylighting_type

:daylighting_type	NECB_Default	add_daylighting_controls	none
pumps	0.004	0.004	
water systems	0.178	0.178	0.178
interior equipment	0.063	0.063	0.063
interior lighting	0.036	0.032	0.036
heat recovery	0.009	0.009	0.009
fans	0.048	0.048	0.048
heating	0.081	0.082	0.081
cooling	0.069	0.068	0.069

Sensitivity of :daylighting_type by Costing

Sensitivity of :ecm_system_name by EUI

Sensitivity of :ecm_system_name by Costing

Sensitivity of :ext_wall_cond by EUI

Sensitivity of :ext_wall_cond by Costing

Sensitivity of :ground_floor_cond by EUI

Sensitivity of :ground_floor_cond by Costing

Sensitivity of :shw_eff by EUI

Sensitivity of :shw_eff by Costing

Sensitivity of :infiltration_scale by EUI

Sensitivity of :infiltration_scale by Costing

Sensitivity of :nv_type by EUI

Sensitivity of :erv_package by Costing

Sensitivity of :electrical_loads_scale by EUI

Sensitivity of :electrical_loads_scale by Costing

Sensitivity of :ext_roof_cond by EUI

Sensitivity of :ext_roof_cond by Costing

:boiler_eff
- Viessmann Vitocrossal 300 CT3-17 96.2% Efficient Condensing Gas Boiler
- NECB_Default

Sensitivity of :boiler_eff by EUI

Sensitivity of :boiler_eff by Costing

Sensitivity of :fixed_window_cond by EUI

Sensitivity of :fixed_window_cond by Costing

Sensitivity of :dcv_type by EUI

Sensitivity of :dcv_type by Costing

Legend:
- cost_equipment_heating_and_cooling_total_cost_per_m_sq
- cost_equipment_lighting_total_cost_per_m_sq
- cost_equipment_shw_total_cost_per_m_sq
- cost_equipment_ventilation_total_cost_per_m_sq
- cost_equipment_thermal_bridging_total_cost_per_m_sq
- cost_equipment_envelope_total_cost_per_m_sq

:dcv_type	envelope	ventilation	shw	lighting	heating_and_cooling
CO2_based_DCV	295.369	55.271	15.175	46.384	47.502
NECB_Default	295.369	42.544	15.175	46.384	47.502
No_DCV	295.369	42.544	15.175	46.384	47.502
Occupancy_based_DCV	295.369	48.676	15.175	46.384	47.502