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	27.00	44.00	3.40	633.28	34.28	0.00	0.00	0.00	4.10	0.00	4.10
:shw_scale	0.5	18.40	30.10	1.70	649.42	33.74	0.00	0.00	0.00	1.80	0.00	1.80
:dcv_type	CO2_based_DCV	10.60	19.30	5.50	677.03	15.68	0.00	0.00	0.00	0.00	-12.30	-12.30
:erv_package	Plate-All	9.20	15.10	1.20	665.80	19.41	0.00	0.00	0.00	0.00	0.00	0.00
:erv_package	Plate-Existing	9.20	15.10	1.20	665.80	19.41	0.00	0.00	0.00	0.00	0.00	0.00
:shw_scale	0.75	9.20	14.80	0.80	665.76	33.21	0.00	0.00	0.00	0.10	0.00	0.10
:erv_package	Rotary-All	9.00	14.80	1.90	666.18	19.64	0.00	0.00	0.00	0.00	0.00	0.00
:erv_package	Rotary-Existing	9.00	14.80	1.90	666.18	19.64	0.00	0.00	0.00	0.00	0.00	0.00
:electrical_loads_scale	0.5	4.40	-2.80	9.60	668.14	35.21	0.00	-0.10	0.00	0.00	0.00	-0.10
:infiltration_scale	0.5	3.60	5.90	1.40	673.81	27.51	0.00	0.80	0.00	0.00	0.00	0.90
:lights_scale	0.50	2.40	-1.80	3.80	674.66	34.28	0.00	-0.70	0.00	0.00	0.00	-1.00
:fixed_wind_solar_trans	0.3	2.30	-7.30	12.40	668.16	38.95	-5.10	7.70	0.00	0.00	0.10	2.80
:nv_type	add_nv	2.10	0.10	3.60	697.59	32.76	0.00	0.00	0.00	0.00	-22.30	-22.30
:fixed_wind_solar_trans	0.4	2.00	-4.40	8.10	670.30	36.52	-2.70	5.60	0.00	0.00	0.10	3.00
:fixed_wind_solar_trans	0.2	1.90	-10.80	16.40	663.12	41.96	-2.30	9.60	0.00	0.00	-0.30	7.00
:dcv_type	Occupancy_based_DCV	1.30	2.20	0.10	684.16	30.80	0.00	0.00	0.00	0.00	-5.70	-5.70
:boiler_eff	Viessmann Vitocrossal 300 CT3-17 96.2% Efficient Condensing Gas Boiler	1.30	2.20	0.00	678.42	32.70	0.00	0.00	0.00	0.00	0.00	0.00
:shw_eff	Natural Gas Power Vent with Electric Ignition	1.20	2.10	0.00	678.49	32.70	0.00	0.00	0.00	0.00	0.00	0.00
:fixed_wind_solar_trans	0.5	1.10	-2.00	4.40	676.58	34.44	-2.70	3.00	0.00	0.00	-0.30	0.00
:daylighting_type	add_daylighting_controls	0.90	-0.30	3.80	684.42	32.99	0.00	0.10	-6.30	0.00	0.00	-6.30
:fixed_window_cond	1.6	0.70	1.30	0.10	694.98	31.58	-16.10	0.50	0.00	0.00	0.00	-15.60
:ext_wall_cond	0.183	0.60	0.90	0.30	686.22	31.93	-7.10	0.40	0.00	0.00	0.00	-6.70
:ground_floor_cond	0.379	0.30	1.10	-0.60	687.28	31.82	-6.80	-0.30	0.00	0.00	0.00	-7.10
:adv_dx_units	Carrier WeatherExpert	0.30	0.00	2.10	680.46	32.70	0.00	0.00	0.00	0.00	-0.70	-0.70
:ext_wall_cond	0.21	0.30	0.50	0.10	684.07	32.29	-4.10	0.00	0.00	0.00	0.00	-4.10
:adv_dx_units	Lennox Model L Ultra High Efficiency	0.30	0.00	2.30	682.13	32.70	0.00	0.00	0.00	0.00	-2.50	-2.50
:ext_roof_cond	0.121	0.20	0.30	0.10	683.91	32.41	-4.00	0.00	0.00	0.00	0.00	-3.90
:ext_roof_cond	0.142	-0.10	-0.10	0.00	679.97	32.77	0.60	0.00	0.00	0.00	0.00	0.60
:ext_wall_cond	0.247	-0.10	-0.10	0.00	679.95	32.79	0.80	-0.20	0.00	0.00	0.00	0.60
:ext_wall_cond	0.278	-0.40	-0.60	-0.20	677.20	33.21	4.50	-0.70	0.00	0.00	0.00	3.80
:ext_roof_cond	0.162	-0.40	-0.50	-0.10	676.16	33.11	5.30	-0.10	0.00	0.00	-0.30	4.90
:ext_roof_cond	0.183	-0.70	-0.90	-0.10	676.72	33.47	6.30	-1.00	0.00	0.00	-0.40	4.90
:ext_wall_cond	0.314	-0.70	-1.10	-0.30	677.46	33.70	4.90	-0.80	0.00	0.00	0.00	4.10
:ext_roof_cond	0.193	-0.80	-1.10	-0.20	674.01	33.64	9.20	-1.00	0.00	0.00	-0.40	7.80
:ext_roof_cond	0.227	-1.30	-1.70	-0.20	672.68	34.21	11.60	-1.10	0.00	0.00	-0.50	10.00
:fixed_window_cond	2.2	-2.80	-4.80	-0.40	647.22	36.88	42.30	-4.50	0.00	0.00	-0.40	37.50
:fixed_window_cond	2.4	-4.00	-6.90	-0.60	637.31	38.72	54.50	-4.80	0.00	0.00	-0.40	49.30
:airloop_economizer_type	DifferentialDryBulb	-17.00	-31.60	0.00	705.45	60.34	0.00	0.00	0.00	0.00	0.00	0.00
:airloop_economizer_type	DifferentialEnthalpy	-17.10	-31.60	0.00	705.74	60.34	0.00	0.00	0.00	0.00	0.00	0.00
:ecm_system_name	HS11_ASHP_PTHP	0.00	0.00	0.00	659.65	38.28	0.00	0.00	0.00	0.00	0.00	0.00
:ecm_system_name	HS13_ASHP_VRF	0.00	0.00	0.00	768.38	37.02	0.00	0.00	0.00	0.00	0.00	0.00
:ecm_system_name	HS12_ASHP_Baseboard	0.00	0.00	0.00	667.63	32.73	0.00	0.00	0.00	0.00	0.00	0.00
:ecm_system_name	HS14_CGSHP_FanCoils	0.00	0.00	0.00	841.96	36.88	0.00	0.00	0.00	0.00	0.00	0.00
:ecm_system_name	HS08_CCASHP_VRF	0.00	0.00	0.00	773.36	37.02	0.00	0.00	0.00	0.00	0.00	0.00
:ecm_system_name	HS09_CCASHP_Baseboard	0.00	0.00	0.00	669.64	32.73	0.00	0.00	0.00	0.00	0.00	0.00

Sensitivity of :ext_wall_cond by EUI

Sensitivity of :ext_wall_cond by Costing

$/M2

	314.86	311.894	306.959	303.284	302.869	307.779
	48.068	48.079	48.082	48.089	48.096	48.081
	7.213	7.213	7.213	7.213	7.213	7.213
	41.855	41.855	41.855	41.855	41.855	41.855
	82.117	82.51			83.265	82.51

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

0.183   0.21   0.247   0.278   0.314   NECB_Default

:ext_wall_cond

:ecm_system_name

- HS11_ASHP_PTHP
- HS13_ASHP_VRF
- HS12_ASHP_Baseboard
- NECB_Default
- HS14_CGSHP_FanCoils
- HS08_CCASHP_VRF
- HS09_CCASHP_Baseboard

cost_equipment_total_cost_per_m_sq

baseline_energy_percent_better

Sensitivity of :ecm_system_name by EUI

GJ/M2

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

	HS08_CCASHP_VRF	HS09_CCASHP_Baseboard	HS11_ASHP_PTHP	HS12_ASHP_Baseboard	HS13_ASHP_VRF	HS14_CGSHP_FanCoils	NECB_Default
	0.001	0.004	0.001	0.004	0.001	0.013	0.001
	0.217	0.217	0.217	0.217	0.217	0.217	0.217
	0.063	0.063	0.063	0.063	0.063	0.063	0.063
	0.036	0.036	0.036	0.036	0.036	0.036	0.036
	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	0.022	0.058	0.022	0.058	0.022	0.036	0.058
	0.071	0.08	0.105	0.103	0.093	0.029	0.125
	0.052	0.066	0.063	0.067	0.053	0.056	0.068
						0.047	

:ecm_system_name

Sensitivity of :ecm_system_name by Costing

Sensitivity of :ext_roof_cond by EUI

Sensitivity of :ext_roof_cond by Costing

Sensitivity of :daylighting_type by EUI

Sensitivity of :daylighting_type by Costing

Sensitivity of :shw_scale by EUI

Sensitivity of :shw_scale by Costing

Sensitivity of :fixed_window_cond by EUI

Sensitivity of :fixed_window_cond by Costing

Sensitivity of :ground_floor_cond by EUI

Sensitivity of :ground_floor_cond by Costing

Sensitivity of :electrical_loads_scale by EUI

Sensitivity of :lights_scale 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

$/M2

307.779   307.779
48.369   48.081
7.213   7.213
41.855   41.855
83.2   82.51

:lights_scale   0.5   1.0

:erv_package
- NECB_Default
- Rotary-All
- Plate-Existing
- NECB_Default_All
- Plate-All
- Rotary-Existing

cost_equipment_total_cost_per_m_sq

baseline_energy_percent_better

Sensitivity of :erv_package 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

GJ/M2

	NECB_Default	NECB_Default_All	Plate-All	Plate-Existing	Rotary-All	Rotary-Existing
	0.008	0.008	0.006	0.006		
	0.217	0.217	0.217	0.217	0.217	0.217
	0.063	0.063	0.063	0.063	0.063	0.063
	0.036	0.036	0.036	0.036	0.036	0.036
	0.01	0.01	0.01	0.01	0.01	0.01
	0.058	0.058	0.058	0.058	0.058	0.058
	0.125	0.125	0.073	0.073	0.074	0.074
	0.068	0.068	0.068	0.068	0.068	0.068

:erv_package

Sensitivity of :erv_package by Costing

Sensitivity of :fixed_wind_solar_trans by EUI

Sensitivity of :fixed_wind_solar_trans by Costing

Sensitivity of :dcv_type by EUI

Sensitivity of :dcv_type by Costing

Sensitivity of :adv_dx_units by EUI

Sensitivity of :adv_dx_units by Costing

Sensitivity of :infiltration_scale by EUI

Sensitivity of :infiltration_scale by Costing

Sensitivity of :shw_eff by EUI

Sensitivity of :shw_eff by Costing

Sensitivity of :airloop_economizer_type by EUI

Sensitivity of :airloop_economizer_type by Costing

Sensitivity of :chiller_type by EUI

Sensitivity of :chiller_type by Costing

:boiler_eff

Sensitivity of :boiler_eff by EUI

Sensitivity of :boiler_eff by Costing

Sensitivity of :nv_type by EUI

Sensitivity of :nv_type by Costing