REPORT: BASE MODEL SIMULATION FOR NEW YORK, USA

Site and Source Energy

	Total Energy [GJ]	Energy Per Total Building Area [MJ/m2]	Energy Per Conditioned Building Area [MJ/m2]
Total Site Energy	5405.83	1005.55	1005.55
Net Site Energy	5405.83	1005.55	1005.55
Total Source Energy	17422.24	3240.74	3240.74
Net Source Energy	17422.24	3240.74	3240.74

Site to Source Energy Conversion Factors

	Site=>Source Conversion Factor
Electricity	3.167
Natural Gas	1.084
District Cooling	1.056
District Heating	3.613
Steam	0.300
Gasoline	1.050
Diesel	1.050
Coal	1.050
Fuel Oil #1	1.050
Fuel Oil #2	1.050
Propane	1.050
Other Fuel 1	1.000
Other Fuel 2	1.000

Building Area

	Area [m2]
Total Building Area	5376.00
Net Conditioned Building Area	5376.00
Unconditioned Building Area	0.00

End Uses

	Electricity [GJ]	Natural Gas [GJ]	Additional Fuel [GJ]	District Cooling [GJ]	District Heating [GJ]	Water [m3]
Heating	0.00	0.00	0.00	0.00	3326.78	0.00
Cooling	0.00	0.00	0.00	560.25	0.00	0.00
Interior Lighting	602.26	0.00	0.00	0.00	0.00	0.00
Exterior Lighting	0.00	0.00	0.00	0.00	0.00	0.00
Interior Equipment	916.55	0.00	0.00	0.00	0.00	0.00
Exterior Equipment	0.00	0.00	0.00	0.00	0.00	0.00
Fans	0.00	0.00	0.00	0.00	0.00	0.00
Pumps	0.00	0.00	0.00	0.00	0.00	0.00
Heat Rejection	0.00	0.00	0.00	0.00	0.00	0.00
Humidification	0.00	0.00	0.00	0.00	0.00	0.00
Heat Recovery	0.00	0.00	0.00	0.00	0.00	0.00
Water Systems	0.00	0.00	0.00	0.00	0.00	0.00
Refrigeration	0.00	0.00	0.00	0.00	0.00	0.00
Generators	0.00	0.00	0.00	0.00	0.00	0.00
Total End Uses	1518.81	0.00	0.00	560.25	3326.78	0.00

Note: District heat appears to be the principal heating source based on energy usage.

Electric Loads Satisfied

	Electricity [GJ]	Percent Electricity [%]
Fuel-Fired Power Generation	0.000	0.00
High Temperature Geothermal*	0.000	0.00
Photovoltaic Power	0.000	0.00
Wind Power	0.000	0.00
Power Conversion	0.000	0.00
Net Decrease in On-Site Storage	0.000	0.00
Total On-Site Electric Sources	0.000	0.00
Electricity Coming From Utility	1518.805	100.00

Surplus Electricity Going To Utility	0.000	0.00
Net Electricity From Utility	1518.805	100.00
Total On-Site and Utility Electric Sources	1518.805	100.00
Total Electricity End Uses	1518.805	100.00

ENVELOPE

Window-Wall Ratio

	Total	North (315 to 45 deg)	East (45 to 135 deg)	South (135 to 225 deg)	West (225 to 315 deg)
Gross Wall Area [m2]	8845.20	2478.00	1944.60	2478.00	1944.60
Above Ground Wall Area [m2]	8845.20	2478.00	1944.60	2478.00	1944.60
Window Opening Area [m2]	2709.84	904.26	530.04	904.26	371.28
Gross Window-Wall Ratio [%]	30.64	36.49	27.26	36.49	19.09
Above Ground Window-Wall Ratio [%]	30.64	36.49	27.26	36.49	19.09

Conditioned Window-Wall Ratio

	Total	North (315 to 45 deg)	East (45 to 135 deg)	South (135 to 225 deg)	West (225 to 315 deg)
Gross Wall Area [m2]	8845.20	2478.00	1944.60	2478.00	1944.60
Above Ground Wall Area [m2]	8845.20	2478.00	1944.60	2478.00	1944.60
Window Opening Area [m2]	2709.84	904.26	530.04	904.26	371.28
Gross Window-Wall Ratio [%]	30.64	36.49	27.26	36.49	19.09
Above Ground Window-Wall Ratio [%]	30.64	36.49	27.26	36.49	19.09

Skylight-Roof Ratio

	Total
Gross Roof Area [m2]	5376.00
Skylight Area [m2]	0.00
Skylight-Roof Ratio [%]	0.00

Report: Source Energy End Use Components Summary

For: Entire Facility

Timestamp: 2018-01-16 16:47:42 Values gathered over 8760.00 hours

Source Energy End Use Components Summary

	Source Electricity [GJ]	Source Natural Gas [GJ]	Source Additional Fuel [GJ]	Source District Cooling [GJ]	Source District Heating [GJ]
Heating	0.00	0.00	0.00	0.00	12020.76
Cooling	0.00	0.00	0.00	591.43	0.00
Interior Lighting	1907.35	0.00	0.00	0.00	0.00
Exterior Lighting	0.00	0.00	0.00	0.00	0.00
Interior Equipment	2902.70	0.00	0.00	0.00	0.00
Exterior Equipment	0.00	0.00	0.00	0.00	0.00
Fans	0.00	0.00	0.00	0.00	0.00
Pumps	0.00	0.00	0.00	0.00	0.00
Heat Rejection	0.00	0.00	0.00	0.00	0.00
Humidification	0.00	0.00	0.00	0.00	0.00
Heat Recovery	0.00	0.00	0.00	0.00	0.00
Water Systems	0.00	0.00	0.00	0.00	0.00
Refrigeration	0.00	0.00	0.00	0.00	0.00
Generators	0.00	0.00	0.00	0.00	0.00
Total Source Energy End Use Components	4810.06	0.00	0.00	591.43	12020.76

Normalized Metrics

Source Energy End Use Components Per Conditioned Floor Area

	Source Electricity [MJ/m2]	Source Natural Gas [MJ/m2]	Source Additional Fuel [MJ/m2]	Source District Cooling [MJ/m2]	Source District Heating [MJ/m2]
Heating	0.00	0.00	0.00	0.00	2236.00
Cooling	0.00	0.00	0.00	110.01	0.00
Interior Lighting	354.79	0.00	0.00	0.00	0.00
Exterior Lighting	0.00	0.00	0.00	0.00	0.00
Interior Equipment	539.94	0.00	0.00	0.00	0.00
Exterior Equipment	0.00	0.00	0.00	0.00	0.00
Fans	0.00	0.00	0.00	0.00	0.00
Pumps	0.00	0.00	0.00	0.00	0.00
Heat Rejection	0.00	0.00	0.00	0.00	0.00
Humidification	0.00	0.00	0.00	0.00	0.00
Heat Recovery	0.00	0.00	0.00	0.00	0.00
Water Systems	0.00	0.00	0.00	0.00	0.00
Refrigeration	0.00	0.00	0.00	0.00	0.00
Generators	0.00	0.00	0.00	0.00	0.00
Total Source Energy End Use Components	894.73	0.00	0.00	110.01	2236.00

Source Energy End Use Components Per Total Floor Area

	Source Electricity [MJ/m2]	Source Natural Gas [MJ/m2]	Source Additional Fuel [MJ/m2]	Source District Cooling [MJ/m2]	Source District Heating [MJ/m2]
Heating	0.00	0.00	0.00	0.00	2236.00
Cooling	0.00	0.00	0.00	110.01	0.00
Interior Lighting	354.79	0.00	0.00	0.00	0.00
Exterior Lighting	0.00	0.00	0.00	0.00	0.00
Interior Equipment	539.94	0.00	0.00	0.00	0.00
Exterior Equipment	0.00	0.00	0.00	0.00	0.00
Fans	0.00	0.00	0.00	0.00	0.00

Pumps	0.00	0.00	0.00	0.00	0.00
Heat Rejection	0.00	0.00	0.00	0.00	0.00
Humidification	0.00	0.00	0.00	0.00	0.00
Heat Recovery	0.00	0.00	0.00	0.00	0.00
Water Systems	0.00	0.00	0.00	0.00	0.00
Refrigeration	0.00	0.00	0.00	0.00	0.00
Generators	0.00	0.00	0.00	0.00	0.00
Total Source Energy End Use Components	894.73	0.00	0.00	110.01	2236.00

Report: Climatic Data Summary

For: Entire Facility

Timestamp: 2018-01-16 16:47:42 Sizing Period: Design Day

	Maximum Dry Bulb [C]	Daily Temperature Range [deltaC]	Humidity Value	Humidity Type	Wind Speed [m/s]	Wind Direction
NEW_YORK ANN CLG .4% CONDNS DB=>MWB	32.10	7.40	23.10	Wetbulb [C]	5.60	230.00
NEW_YORK ANN CLG .4% CONDNS DP=>MDB	27.00	7.40	23.80	Dewpoint [C]	5.60	230.00
NEW_YORK ANN CLG .4% CONDNS ENTH=>MDB	29.10	7.40	75700.00	Enthalpy [J/kg]	5.60	230.00
NEW_YORK ANN CLG .4% CONDNS WB=>MDB	29.10	7.40	25.00	Wetbulb [C]	5.60	230.00
NEW_YORK ANN HTG 99.6% CONDNS DB	-10.70	0.00	-10.70	Wetbulb [C]	7.50	320.00
NEW_YORK ANN HTG WIND 99.6% CONDNS WS=>MCDB	-3.20	0.00	-3.20	Wetbulb [C]	14.20	320.00
NEW_YORK ANN HUM_N 99.6% CONDNS DP=>MCDB	-8.90	0.00	-20.80	Dewpoint [C]	7.50	320.00

EAp2-6. Energy Use Summary

	Process Subtotal [GJ]	Total Energy Use [GJ]
Electricity	916.55	1518.81
Natural Gas	0.00	0.00
Additional	0.00	3887.02
Total	916.55	5405.83

Report: **BUILDING ENERGY PERFORMANCE - ELECTRICITY**

For: Meter

	INTERIORLIGHTS:ELECTRICITY [J]	INTERIOREQUIPMENT:ELECTRICITY [J]
January	0.507546E+11	0.775948E+11
February	0.463103E+11	0.703965E+11
March	0.526406E+11	0.791041E+11
April	0.473373E+11	0.734828E+11
May	0.526406E+11	0.791041E+11
June	0.505305E+11	0.762015E+11
July	0.494474E+11	0.763854E+11
August	0.526406E+11	0.791041E+11
September	0.492234E+11	0.749922E+11
October	0.507546E+11	0.775948E+11
November	0.505305E+11	0.762015E+11
December	0.494474E+11	0.763854E+11
Annual Sum or Average	0.602258E+12	0.916547E+12
Minimum of Months	0.463103E+11	0.703965E+11
Maximum of Months	0.526406E+11	0.791041E+11

Report: BUILDING ENERGY PERFORMANCE - DISTRICT HEATING

For: Meter

Timestamp: 2018-01-16 16:47:42 Custom Monthly Report

	HEATING:DISTRICTHEATING [J]
	TEATHORN (5)
January	0.846267E+12
February	0.613653E+12
March	0.483549E+12
April	0.231715E+12
May	0.584699E+11
June	0.621813E+10
July	0.363929E+09
August	0.248126E+10
September	0.154448E+11
October	0.116918E+12
November	0.342326E+12
December	0.609373E+12
Annual Sum or Average	0.332678E+13
Minimum of Months	0.363929E+09
Maximum of Months	0.846267E+12

Report: BUILDING ENERGY PERFORMANCE - DISTRICT COOLING

For: Meter

	COOLING:DISTRICTCOOLING [J]
January	0.00
February	22761400.24
March	0.154509E+10
April	0.323508E+10
May	0.501444E+11
June	0.104814E+12
July	0.166946E+12
August	0.137650E+12

0.794185E+11
0.141257E+11
0.175798E+10
0.586250E+09
0.560245E+12
0.00
0.166946E+12

Report: BUILDING ENERGY PERFORMANCE - ELECTRICITY PEAK DEMAND

For: Meter

	ELECTRICITY : FACILITY {Maximum}[W]	ELECTRICITY : FACILITY {TIMESTAMP}	INTERIOR LIGHTS : ELECTRICITY {AT MAX/MIN} [W]	INTERIOR EQUIPMENT : ELECTRICITY {AT MAX/MIN} [W]
January	95059.56	02-JAN-08:15	46683.77	48375.79
February	95059.56	01-FEB-08:15	46683.77	48375.79
March	95059.56	01-MAR-08:15	46683.77	48375.79
April	95059.56	03-APR-08:15	46683.77	48375.79
May	95059.56	01-MAY-08:15	46683.77	48375.79
June	95059.56	01-JUN-08:15	46683.77	48375.79
July	95059.56	03-JUL-08:15	46683.77	48375.79
August	95059.56	01-AUG-08:15	46683.77	48375.79
September	95059.56	01-SEP-08:15	46683.77	48375.79
October	95059.56	02-OCT-08:15	46683.77	48375.79
November	95059.56	01-NOV-08:15	46683.77	48375.79
December	95059.56	01-DEC-08:15	46683.77	48375.79
Annual Sum or Average				
Minimum of Months	95059.56		46683.77	48375.79
Maximum of Months	95059.56		46683.77	48375.79

Report: BUILDING ENERGY PERFORMANCE - DISTRICT HEATING PEAK DEMAND

For: Meter

Timestamp: 2018-01-16 16:47:42 Custom Monthly Report

	DISTRICT HEATING : FACILITY {Maximum}[W]	DISTRICT HEATING : FACILITY {TIMESTAMP}	HEATING : DISTRICT HEATING {AT MAX/MIN} [W]
January	915158.74	23-JAN-06:15	915158.74
February	768375.07	04-FEB-06:15	768375.07
March	645413.86	06-MAR-06:15	645413.86
April	550601.89	03-APR-06:15	550601.89
May	369795.98	06-MAY-06:15	369795.98
June	262126.10	01-JUN-06:15	262126.10
July	62712.80	05-JUL-06:15	62712.80
August	171475.81	05-AUG-06:15	171475.81
September	375822.47	20-SEP-06:15	375822.47
October	507728.33	31-OCT-06:15	507728.33
November	636327.13	22-NOV-06:15	636327.13
December	786229.55	04-DEC-06:15	786229.55
Annual Sum or Average			
Minimum of Months	62712.80		62712.80
Maximum of Months	915158.74		915158.74

Report: BUILDING ENERGY PERFORMANCE - DISTRICT COOLING PEAK DEMAND

For: Meter

	DISTRICT COOLING : FACILITY {Maximum}[W]	DISTRICT COOLING : FACILITY {TIMESTAMP}	COOLING : DISTRICT COOLING {AT MAX/MIN} [W]
January	0.00	01-JAN-00:15	0.00
February	3001.85	22-FEB-15:00	3001.85
March	35217.43	28-MAR-14:00	35217.43
April	39715.37	12-APR-15:00	39715.37

May	222343.10	10-MAY-13:15	222343.10
June	307489.78	16-JUN-13:15	307489.78
July	339946.95	17-JUL-13:15	339946.95
August	258100.81	25-AUG-13:15	258100.81
September	229667.20	05-SEP-13:15	229667.20
October	101489.07	09-OCT-13:15	101489.07
November	25127.07	03-NOV-15:00	25127.07
December	16397.47	08-DEC-13:15	16397.47
Annual Sum or Average			
Minimum of Months	0.00		0.00
Maximum of Months	339946.95		339946.95