

Compass 1A/1B – Database Notes

Table 1 Database Notes

Data Collection	<u>Data Logger:</u> <u>Data Collection Interval:</u> <u>Collection Method:</u>	Obvius AcquiSuite A8812 15 – Minute Obvius Upload Manager to CDH Servers
Site Information	<u>Cogeneration Units:</u> <u>Nameplate Capacity:</u> <u>Heat Recovery Medium:</u> <u>Heat Recovery Uses:</u>	Two (2) Capstone C65 Two (2) 65 kW Hot Water Other
DG/CHP Generator Electrical Output	<u>Engineering Units:</u> <u>Energy Measurement (net/gross):</u> <u>Measurement Type:</u>	kWh Net Power Accumulated kWh
DG/CHP Generator Electrical Output Demand	<u>Engineering Units:</u> <u>Measurement Type:</u>	kW Measured kW
DG/CHP Generator Fuel Input	<u>Engineering Units:</u> <u>Measurement type:</u>	CF Accumulated cubic feet
DG/CHP Useful Heat Recovery	<u>Engineering Units:</u> <u>Heat Measurement Type:</u>	MBtu/hr Calculated from 1 minute analog flow and temperature data
DG/CHP Unused Heat Recovery	<u>Engineering Units:</u> <u>Heat Measurement Type:</u>	MBtu/hr Calculated from 1 minute analog flow and temperature data
DG/CHP Status/Runtime	<u>Engineering Units:</u> <u>Measurement Type:</u>	Hours Calculated based on generator output

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Facility Purchased Energy	<u>Engineering Units:</u> <u>Measurement Type:</u>	kWh Measured kW / data interval
Facility Purchased Demand	<u>Engineering Units:</u> <u>Measurement Type:</u>	kW Measured kW
Other Facility Gas Use	<u>Engineering Units:</u> <u>Measurement Type:</u>	- -

Table 2 Event Timeline

Date	Event
April 19, 2018	Data collection begins
May 22, 2018	Added to NYSERDA website.
May 23, 2019	Shark 200 meter communications failed. WG calculated from WT.
July 29, 2019	Shark 200 meter communications restored. WG data is now reported in Wh and converted to kWh.

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Range Checks

Table 3. Range Checks

Data Point	Units	Hourly Data Calculation Method	Database Lower Range	Database Upper Range	Notes
DG/CHP Generator Output (WG_d)	kWh/int	Sum	-10	320	-
DG/CHP Generator Output Demand (WG_KW_d)	kW	Max	-10	320	-
DG/CHP Generator Gas Use (FG_d)	cf/int	Sum	0	6000	-
Total Facility Purchased Energy (WT_d)	kWh/int	Sum	0	1000	-
Total Facility Purchased Demand (WT_KW_d)	kW	Max	0	1000	-
Other Facility Gas Use (FT_d)	cf/int	-	-	-	-
Useful Heat Recovery (QHR_d)	MBtu/hr	Avg	0	6000	-
Unused Heat Recovery (QD_d)	MBtu/hr	Avg	0	6000	-
Status/Runtime of DG/CHP Generator (SG_d)	hr	-	0	1	System Off/System On
Ambient Temperature (TAO)	°F	Avg	-20	130	<i>WUG Airport Code - JFK</i>

Notes:

1. This table contains values from *bay_park_1.csv*

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Relational Checks

Table 4. Relational Checks

Evaluated Point	Criteria	Result

Notes:

1. This table contains values from *relational_checks.pro*