

Grace Towers Apartment – Database Notes

Table 1 Database Notes

Data Collection	Data Logger: Data Collection Interval: Collection Method: Timestamp Reference:	Aegis Data Collection Platform 15-minute Nightly FTP upload to CDH Energy servers Eastern Standard Time
Site Information	Cogeneration Units: Nameplate Capacity: Heat Recovery Medium: Heat Recovery Uses: Excess Heat Use:	Two (2) Yanmar CP35D1 Cogen Units 35 kW Hot water Domestic Hot Water Rejected to atmosphere
DG/CHP Generator Electrical Output	Engineering Units: Energy Measurement (net/gross): Measurement Type:	kWh Net Power: (calculated from gross and parasitic measurements) Accumulated kWh
DG/CHP Generator Electrical Output Demand	Engineering Units: Measurement Type:	kW Net Power: (calculated from gross and parasitic measurements) Measured kW
DG/CHP Generator Fuel Input	Engineering Units: Measurement Type:	CF Accumulators cubic feet
DG/CHP Useful Heat Recovery	Engineering Units: Heat Measurement Type:	MBtu /hr Calculated from 15 minute flow and temperature data
DG/CHP Unused Heat Recovery	Engineering Units:	Not Collected
DG/CHP Status/Runtime	Engineering Units:	0 – 1, System ON/System Off
Facility Purchased Energy	Engineering Units: Measurement Type:	kWh Accumulated kWh

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Facility Purchased Demand	Engineering Units: Measurement Type:	kW Measured kW
Other Facility Gas Use	Engineering Units:	Not collected

Table 2 Event Timeline

Date	Event
June 21, 2017	Data collection begins.
June 30, 2017	Added to NYSERDA website.

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Range Checks

Table 3. Range Checks

Data Point	Hourly Data Method	Units	Database Lower Range	Database Upper Range	Notes
DG/CHP Generator Output	Sum	kWh/int	-5	17.5	
DG/CHP Generator Output Demand	Max	kW	-20	70	
DG/CHP Generator Gas Use	Sum	Cfh	0	1200	
Total Facility Purchased Energy	Sum	kWh/int	0	250	
Total Facility Purchased Demand	Max	kW	0	1000	
Other Facility Gas Use	Sum	Cfh	-	-	Not Installed
Useful Heat Recovery	Sum	MBtu/h	0	500	
Unused Heat Recovery	Sum	MBtu/h	0	500	
Status/Runtime of DG/CHP Generator	On/Off	On/Off	0	1	0 – 1, System On/System Off
Ambient Temperature	Avg	°F	-30	130	WUG Airport Code - JFK

Notes:

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

Relational Checks

Table 4. Relational Checks

Evaluated Point	Criteria	Result