

## Archstone Midtown – Database Notes

Table 1 Database Notes

<b>Data Collection</b>	<u>Data Logger:</u> <u>Data Collection Interval:</u> <u>Collection Method:</u>	Obvius Aqusuite supplied by Constellation Energy 1 minute sftp
<b>Site Information</b>	<u>Cogeneration Units:</u> <u>Nameplate Capacity:</u> <u>Heat Recovery Medium:</u> <u>Heat Recovery Uses:</u> <u>Excess Heat:</u>	2 – 75kW Aegis AGEN-75 engine generators 150 kW Hot water Domestic hot water Rejected from dump radiator connected to cooling tower
<b>DG/CHP Generator Electrical Output</b>	<u>Engineering Units:</u> <u>Energy Measurement (net/gross):</u> <u>Measurement Type:</u>  <u>Parasitic Power Measurements:</u>	kWh Gross Accumulated energy per interval 2 total – 1 for each engine One time parasitic measurement
<b>DG/CHP Generator Electrical Output Demand</b>	<u>Engineering Units:</u> <u>Measurement Type:</u>	kW From energy measurement, based on peak 1-min power
<b>DG/CHP Generator Fuel Input</b>	<u>Engineering Units:</u> <u>Measurement type:</u>	CF Pulse
<b>DG/CHP Useful Heat Recovery</b>	<u>Engineering Units:</u> <u>Heat Measurement Type:</u>	MBtu One thermal loop with common flowmeter and temperature measurements across useful loads
<b>DG/CHP Unused Heat Recovery</b>	<u>Engineering Units:</u> <u>Heat Measurement Type:</u>	MBtu Common flowmeter and temperature measurements across useful loads

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<b>DG/CHP Status/Runtime</b>	<u>Engineering Units:</u> <u>Measurement Type:</u>	0 – 1, System On/System Off
<b>Facility Purchased Energy</b>	<u>Engineering Units:</u> <u>Measurement Type:</u>	Not collected
<b>Facility Purchased Demand</b>	<u>Engineering Units:</u> <u>Measurement Type:</u>	Not collected
<b>Other Facility Gas Use</b>	<u>Engineering Units:</u> <u>Measurement Type:</u>	Not collected

**Table 2 Event Timeline**

<b>Date</b>	<b>Event</b>

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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	0	5	
DG/CHP Generator Output Demand (WG_KW_d)	kW	Max	0	200	
DG/CHP Generator Gas Use (FG_d)	cf/int	Sum	0	2000	
Total Facility Purchased Energy (WT_d)	kWh/int	-	0	20	
Total Facility Purchased Demand (WT_KW_d)	kW	-	0	1000	
Other Facility Gas Use (FT_d)	cf/int	-	-	-	Not collected
Useful Heat Recovery (QHR_d)	MBtu/int	-	-30	1200	Calculated
Unused Heat Recovery (QD_d)	MBtu/int	-	-150	1200	Calculated
Status/Runtime of DG/CHP Generator (SG_d)	hr	-	0	1	
Ambient Temperature (TAO)	°F	Avg	-30	130	WUG Airport Code - LGA

Notes:

1. This table contains values from *midtown.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*