

3333 BROADWAY – DATABASE NOTES

Table 1 Database Notes

Data Collection	Data Logger: Data Collection Interval: Collection Method:	Site's BMS System 15 – Minute sFTP Upload to Frontier servers
Project Information	DER Unit (make & model): Nameplate Capacity: Heat Recovery Medium: Heat Recovery Uses: Excess Heat:	Five (5) Tecogen INV-100 e+ Units 100 kW Hot Water DHW, Space Heating Rejected to atmosphere by dry cooler
DER Electricity Generated	Engineering Units: Energy Measurement (net/gross): Measurement Type:	kWh/hour Net Power (calculated from gross and parasitic measurements) Calculated using kW measurements from Veris E50C2 meter
Electric Utility Import	Engineering Units: Measurement Type:	kWh kWh from ConEd electric meter
DER Fuel Consumed	Engineering Units: Measurement type:	cfh Calculated using interval cf data from 3M175TC RootsMeter
DER Heat Used	Engineering Units: Heat Measurement Type:	MBtu/hr (value calculated by site) MBtu from Onicon System 10 flowmeter and two Onicon System 10 temperature sensors, using 15 minute interval data, across all useful loads
DER Heat Rejected	Engineering Units: Heat Measurement Type:	MBtu/hr (value calculated by site) MBtu from Onicon System 10 flowmeter and two Onicon System 10 temperature sensors, using 15 minute interval data, across dump radiator

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Table 2 Event Timeline

Date	Event
10/7/2021	Data collection begins. Gas data is not provided.
11/16/2021	Gas data reporting begins. Gas data is flagged as invalid prior to this date.
12/17/2021	Data posted to the DER website.

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Range Checks

Table 3 Range Checks

Data Point	Units	Database Lower Range	Database Upper Range	Notes
DER Electricity Generated	kWh/hour	0	550	
Electric Utility Import	kWh/hour	0	500	
DER Fuel Consumed	cfh	0	6000	
DER Heat Used	MBtu/hour	0	3250	
DER Heat Rejected	MBtu/hour	0	3250	
Ambient Temperature	°F	-20	130	NOAA Airport Code - KLGA

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Relational Checks

Table 4 Relational Checks

Evaluated Point(s)	Criteria	Result
Electricity Generated Fuel Consumed	Daily Electric Efficiency < 0% HHV and > 100% HHV	Electricity Generated = invalid Fuel Consumed = invalid Heat Used = invalid Heat Rejected = invalid