

VILLAGE VIEW 1 – DATABASE NOTES

Table 1 Database Notes

Data Collection	Data Logger: Data Collection Interval: Collection Method:	Tecogen control system 15 – Minute FTP Upload to Frontier servers
Site Information	DER Unit (make & model): Nameplate Capacity: Heat Recovery Medium: Heat Recovery Uses: Excess Heat:	One (1) Tecogen INV-125 e+ Unit 125 kW Hot Water Domestic Hot Water (DHW) and space heating Rejected by dump radiator
DER Electricity Generated (WG)	Engineering Units: Energy Measurement (net/gross): Measurement Type:	kWh/hour Net Power (calculated from gross and parasitic measurements) Calculated using kWh measurements from INV-125 unit and provide parasitic load data.
Electric Utility Import (WI)	Engineering Units: Measurement Type:	kWh/hour Calculated using accumulated kWh from INV-125 unit.
DER Fuel Consumed (FG)	Engineering Units: Measurement type:	cfh Calculated using accumulated cf from gas meter.
DER Heat Used (QU)	Engineering Units: Heat Measurement Type:	MBtu/hour Calculated using accumulated MBtu from BTU meters installed on HT and LT loops.
DER Heat Rejected (QD)	Engineering Units: Heat Measurement Type:	MBtu/hour Calculated using accumulated MBtu from BTU meter installed across dump radiator.

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Table 2 Event Timeline

Date	Event
April 4, 2019	Data collection begins, numerous issues with raw data files.
April 4, 2019	Parasitic data corrected.
September 12, 2019	THW2 temperature data was corrected. Reported constant value from 4/12/19 to 9/12/19.
October 1, 2019	Gas data reporting begins.
October 16, 2019	Added to NYSERDA 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	-10	130	
Electric Utility Import	kWh/hour	0	800	
DER Fuel Consumed	cfh	0	2,000	
DER Heat Used	MBtu/hour	0	2,000	
DER Heat Rejected	MBtu/hour	0	2,000	
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