

VAMC ALBANY SAMUAL S. STRATTON – DATABASE NOTES

Table 1 Database Notes

Data Collection	Data Logger: Data Collection Interval: Collection Method:	Facility BMS System 15-minute Interval Nightly sFTP transfer to Frontier Energy servers
Project Information	DER Unit (make & model): Nameplate Capacity: Heat Recovery Medium: Heat Recovery Uses: Excess Heat:	MEG-1005NS 1005 kW Hot Water Boiler Pre Heat and Other Loads Rejected to atmosphere by Jacket Water Radiator
DER Electricity Generated (WG)	Engineering Units: Energy Measurement (net/gross): Measurement Type:	kWh Gross Calculated from accumulated kWh/int from installed power meter
Electric Utility Import (WI)	Engineering Units: Measurement Type:	kWh kWh from National Grid electric meter
DER Fuel Consumed (FG)	Engineering Units: Measurement type:	cfh Calculated from accumulated mcf/int from installed meter.
DER Heat Used (QU)	Engineering Units: Heat Measurement Type:	MBtu Calculated from provided flows and temperatures from installed BTU meter. Flow adjusted to match design flow from mechanical drawing. Heat recovery exceeded rating.

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Table 2 Event Timeline

Date	Event
3/10/2022	Data collection begins
3/13/2022	Data posted to the NYSERDA DER Website. Heat recovery data can only be accessed with the data quality filter turned off due to inconsistencies between the reported heat recovery from the onsite BTU meter and heat recovery calculated using the fundamental flows and temperatures from the raw data files.
5/5/2022	Heat recovery data posted to Website. Flow adjusted to match design flow from mechanical drawing due to heat recovery exceeding rating.

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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	1050	
Electric Utility Import	kWh/hour	0	3000	
DER Fuel Consumed	cfh	0	18000	
DER Heat Used	MBtu/hour	0	4500	
Ambient Temperature	°F	-20	130	NOAA Airport Code - KALB

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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