

FRESH MEADOWS – DATABASE NOTES

Table 1 Database Notes

Data Collection	Data Logger: Data Collection Interval: Collection Method:	Obvius AcquiSuite A8810 15 – Minute Obvius Upload Manager to Frontier Servers
Project Information	DER Unit (make & model): Nameplate Capacity: Heat Recovery Medium: Heat Recovery Uses: Excess Heat:	Three (3) Capstone 200 Three (3) 190 kW Steam & Hot Water Domestic Hot Water (DHW), Space Heating, Chiller Rejected from the heat recovery steam generator stack
DER Electricity Generated (WG)	Engineering Units: Energy Measurement (net/gross): Measurement Type:	kWh Gross Power Calculated using the kW measurements power meters installed on the three units
Electric Utility Import (WI)	Engineering Units: Measurement Type:	kWh kWh from ConEdison electric meters
DER Fuel Consumed (FG)	Engineering Units: Measurement type:	cf cf from Sage Gas Meter
Hot Water Heat Used (QU)	Engineering Units: Heat Measurement Type:	MBtu/hr Calculated from 15 minute analog flow and temperature data
Steam Heat Used (QHRSG)	Engineering Units: Measurement type:	MBtu hr Calculated from 15 minute analog flow and stipulated enthalpy assuming saturated steam and water at 10 psig

FRESH MEADOWS – DATABASE NOTES

Table 2 Event Timeline

Date	Event
January 29, 2025	Data collection begins
January 31, 2025	Added to NYSERDA website
September 16, 2025	HRSG data has been added and posted to the NYSERDA website going back to January 2025.

FRESH MEADOWS – DATABASE NOTES

Range Checks

Table 3 Range Checks

Data Point	Units	Database Lower Range	Database Upper Range	Notes
DER Electricity Generated	kWh/hour	0	630	
Electric Utility Import	kWh/hour	0	1200	
DER Fuel Consumed	cfh	0	7000	
DER Heat Used	MBtu/hour	0	3000	
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