

DOMINO - BUILDING A – DATABASE NOTES

Table 1 Database Notes

Data Collection	Data Logger: Data Collection Interval: Collection Method:	Tecogen Installed datalogger 15-min sFTP Upload to Frontier servers
Project Information	DER Unit (make & model): Nameplate Capacity: Heat Recovery Medium: Heat Recovery Uses: Excess Heat:	Two (2) Tecogen Inverde INV-125 Units 250 kW Hot Water Domestic Hot Water (DHW), Space Heating, Radiant Snowmelting Rejected by dump Radiator
DER Electricity Generated (WG)	Engineering Units: Energy Measurement (net/gross): Measurement Type:	kWh/hour Net Power (calculated by site from gross and parasitic measurements) Calculated using the kW measurements from power meter installed on the CHP unit and the internal parasitic demand meter
Electric Utility Import (WB)	Engineering Units: Measurement Type:	kWh Calculated using the kW measurements from ConEdison electric meter
DER Fuel Consumed (FG)	Engineering Units: Measurement type:	cfh Calculated using interval cf data from Pulse Meter
DER Heat Used (QU)	Engineering Units: Heat Measurement Type:	MBtu/h (value calculated by site) Calculated, using 15-minute interval flow and temperature data, across all useful loads
DER Heat Rejected (QR)	Engineering Units: Heat Measurement Type:	MBtu/h (value calculated by site) Calculated, using 15-minute interval flow and temperature data, across all useful loads

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Table 2 Event Timeline

Date	Event
November 4, 2022	Data collection begins.
June 2, 2023	Site reporting constant building import, power generation, and gas consumption while loop temperature and flow data indicate that the system was not running. Data marked invalid beginning on 6/2/23.
July 31, 2023	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	-20	300	
DER Electricity Imported	kWh/hour	0	300	
DER Fuel Consumed	cfh	0	3000	
DER Heat Used	MBtu/hour	0	2000	
DER Heat Rejected	MBtu/hour	0	2000	
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