

EDENWALD YMCA – DATABASE NOTES

Table 1 Database Notes

Data Collection	Data Logger: Data Collection Interval: Collection Method:	Aegis Data Collection Platform 15 – Minute Nightly sFTP upload to Frontier Energy (FE) servers
Project Information	DER Unit (make & model): Nameplate Capacity: Heat Recovery Medium: Heat Recovery Uses:	Two (2) Yanmar CP35D1 Cogen Unit 70 kW Hot water Domestic Hot Water (DWH), Space Heating, Other
DER Electricity Generated (WG)	Engineering Units: Energy Measurement (net/gross): Measurement Type:	kWh/hour Net Power Calculated using accumulated gross kWh values from installed meters and stipulated parasitic loads
DER Fuel Consumed (FG)	Engineering Units: Measurement type:	cfh Calculated using accumulated cf values from Utility gas meter
DER Heat Used (QU)	Engineering Units: Heat Measurement Type:	MBtu/hour Calculated from accumulated BTU values from installed BTU meter

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Table 2 Event Timeline

Date	Event
3/29/2022	Data Collection Begins
6/16/2022	Added to NYSERDA website
10/17/2023	Low gas consumption beginning on 4/8/2022 has lead to unrealistic efficiencies exceeding 100%. Gas, Power, and heat recovery have been set to zero using the Data Quality Filter.

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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	100	
DER Fuel Consumed	cfh	0	3200	
DER Heat Used	MBtu/hour	0	1100	
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