

1952-56 1ST AVE – DATABASE NOTES

Table 1 Database Notes

Data Collection	Data Logger: Data Collection Interval: Collection Method:	Obvius AcquiSuite A8810 1 – Minute Obvius Upload Manager to Frontier Servers
Project Information	DER Unit (make & model): Nameplate Capacity: Heat Recovery Medium: Heat Recovery Uses: Excess Heat:	Two (2) IntelliGen 280 Inverter Two (2) 280 kW Hot Water Domestic Hot Water and Space Heating Rejected to atmosphere by dry cooler
DER Electricity Generated (WG)	Engineering Units: Energy Measurement (net/gross): Measurement Type:	kWh Net Power Accumulated kWh
Electric Utility Import (WI)	Engineering Units: Measurement Type:	kWh kWh from ConEdison electric meter
DER Fuel Consumed (FG)	Engineering Units: Measurement type:	cf Calculated using measured gross power output and manufacturer’s fuel input ratings from NYSERDA CHP Acceleration Catalogue.
DER Heat Used (QU)	Engineering Units: Heat Measurement Type:	MBtu/hr Calculated from 1 minute analog flow and temperature data
DER Heat Rejected (QD)	Engineering Units: Heat Measurement Type:	MBtu/hr Calculated from 1 minute analog flow and temperature data

1952-56 1ST AVE – DATABASE NOTES

Table 2 Event Timeline

Date	Event
October 16, 2024	Data collection begins
November 26, 2024	Added to NYSERDA website
November 26, 2024	Gas data stipulated for all time using measured power and manufacturer rating, see Appendix - Gas Calc for details.
November 26, 2024	Heat used and rejected data marked invalid beginning on 10/16/24 due to issues with temperature sensors.
January 7, 2025	Heat used and rejected data posted to NYSERDA website beginning on 1/7/25.

1952-56 1ST AVE – DATABASE NOTES

Range Checks

Table 3 Range Checks

Data Point	Units	Database Lower Range	Database Upper Range	Notes
DER Electricity Generated	kWh/hour	0	600	
Electric Utility Import	kWh/hour	0	2400	
DER Fuel Consumed	cfh	0	6200	
DER Heat Used	MBtu/hour	0	6000	
DER Heat Rejected	MBtu/hour	0	6000	
Ambient Temperature	°F	-20	130	NOAA Airport Code - KLGA

1952-56 1ST AVE – DATABASE NOTES

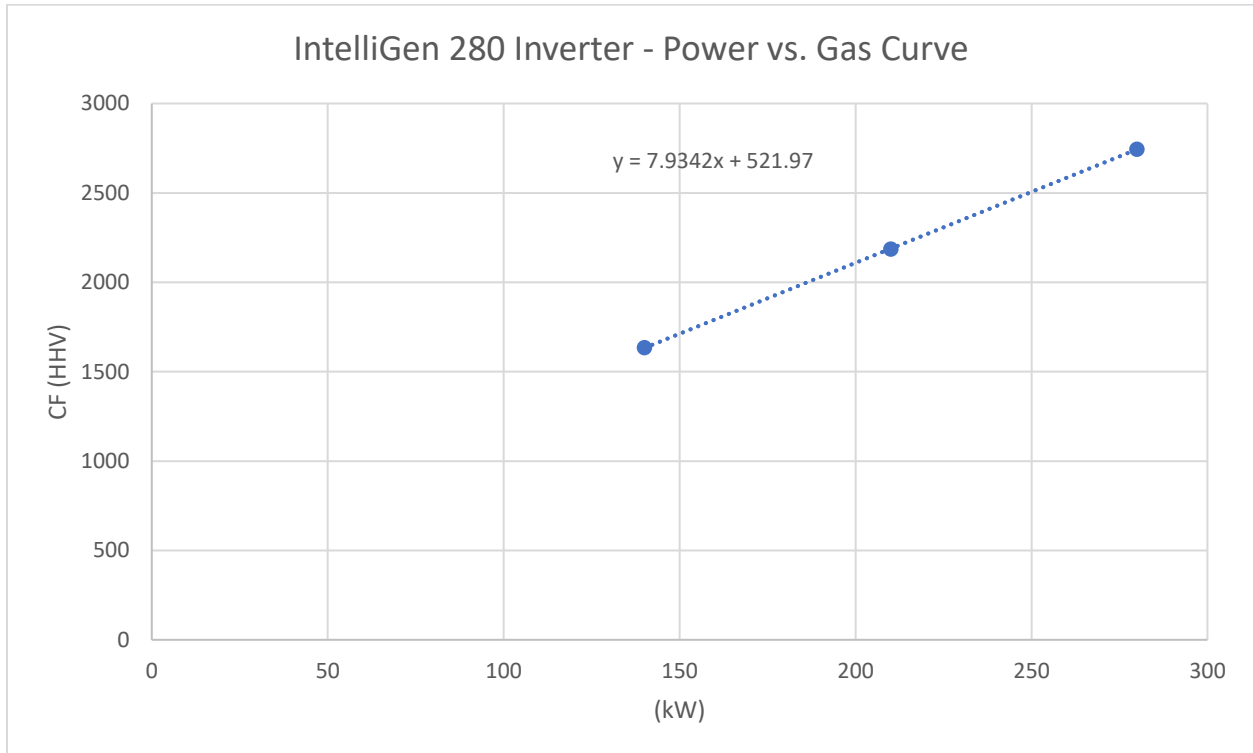
Relational Checks

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

1952-56 1ST AVE – APPENDIX A

Gas data is calculated from power generation by using gas curve developed from the NYSERDA CHP Acceleration performance values for the two (2) IntelliGen 280 Inverter units.



Power generation (**WG_KW**), gas consumption (**FG**):

$$FG1 = 7.9342 * (WG1_KW) + 521.97$$

$$FG2 = 7.9342 * (WG2_KW) + 521.97$$

$$FG = FG1 + FG2$$