Table 1 Database Notes

Data Collection	Data Logger: Data Collection Interval: Collection Method:	PLC control system 15 – minute FTP over site internet/daily
Site Information	Cogeneration Units: Nameplate Capacity: Heat Recovery Medium: Heat Recovery Uses: Excess Heat:	(12) - 65 kW Natural gas fired Capstone Hybrid UPS Microturbines 780 kW Hot Water Space Heating/Cooling, Domestic Hot Water, Supplies heat to the absorption chillers Rejected from hot water loop to heat exchanger connected to cooling tower
DG/CHP Generator Electrical Output	Engineering Units: Energy Measurement (net/gross): Measurement Type: Generator Power Measurements: Parasitic Power Measurements:	kW/kWh Gross Accumulated energy per interval 8 total – four to the data, one to the utility connection, two to the utility connection , two to the battery bank 2 total – one for each parasitic panel
DG/CHP Generator Electrical Output Demand	Engineering Units: Measurement Type:	kW From power measurement, based on peak 15-min power
DG/CHP Generator Fuel Input	Engineering Units: Measurement type:	SCFM Form-A Pulse signal
DG/CHP Useful Heat Recovery	Engineering Units: Heat Measurement Type:	MBtu (calculated value) Sum of four thermal loops (2 chilled water and 2 hot water) flowmeter and multiple temperature sensors per loop.

DG/CHP Unused Heat Recovery	Engineering Units: Heat Measurement Type:	Not collected
DG/CHP Status/Runtime	Engineering Units: Measurement Type:	Not collected
Facility Purchased Energy	Engineering Units: Measurement Type:	
Facility Purchased Demand	Engineering Units: Measurement Type:	
Other Facility Gas Use	Engineering Units: Measurement Type:	Not collected

Table 2 Event Timeline

Date	Event	
May 28, 2010	Data collection begins	
September 1, 2011	Monitored data available in an hourly format on NYSERDA's DG website	

Table 3. Range Checks

Data Point	Units	Hourly Data Calculation	Database Lower Range	Database Upper Range	Notes
		Method	Be	Kange	
DG/CHP Generator Output (WG_d)	kWh/int	Sum	-50	200	
DG/CHP Generator Output Demand (WG_KW_d)	kW	Max	-50	800	
DG/CHP Generator Gas Use (FG_d)	cf/int	Sum	0	8000	
Total Facility Purchased Energy (WT_d)	kWh/int	-	-500	500	
Total Facility Purchased Demand (WT_KW_d)	kW	-	-800	2500	
Other Facility Gas Use (FT_d)	cf/int	-	-	-	Not collected
Useful Heat Recovery (QHR_d)	MBtu/int	-	-60	5000	Calculated Value
Unused Heat Recovery (QD_d)	MBtu/int	-	-60	5000	Calculated Value
Status/Runtime of DG/CHP Generator (SG_d)	hr	-	1	-	
Ambient Temperature (TAO)	°F	Avg	-30	130	Ambient Temperature

Notes:

1. This table contains values from syrgdc.csv

Relational Checks

Table 4. Relational Checks

Evaluated Point	Criteria	Result

Notes:

1. This table contains values from relational_checks.pro