

Remeeder House - Sutter – Database Notes

Table 1 Database Notes

Data Collection	Data Logger: Data Collection Interval: Collection Method: Timestamp Reference:	Aegis Data Collection Platform 15-minute Nightly FTP upload to CDH Energy servers Eastern Standard Time
Site Information	Cogeneration Units: Nameplate Capacity: Heat Recovery Medium: Heat Recovery Uses: Excess Heat Use:	One (1) Yanmar CP35D1 Cogen Units 35 kW Hot water Domestic Hot Water Rejected to atmosphere
DG/CHP Generator Electrical Output	Engineering Units: Energy Measurement (net/gross): Measurement Type:	kWh Net calculated: Gross minus calculated parasitic Calculated using kW measurements from 1x cogen power meters and calculated parasitic load consisting of ½ hp heat recovery loop pump.
DG/CHP Generator Electrical Output Demand	Engineering Units: Measurement Type:	kW Maximum power measurement, based on peak 15-minute power
DG/CHP Generator Fuel Input	Engineering Units: Measurement Type:	CF Calculated using part load curve from NYSERDA Combined Heat and Power Catalog
DG/CHP Useful Heat Recovery	Engineering Units: Heat Measurement Type:	MBtu Accumulated MBtu from integrating BTU meter.
DG/CHP Unused Heat Recovery	Engineering Units:	Not Collected
DG/CHP Status/Runtime	Engineering Units:	0 – 1, System ON/System Off

Remeeder House - Sutter – Database Notes

Facility Purchased Energy	Engineering Units:	Not collected
Facility Purchased Demand	Engineering Units:	Not collected
Other Facility Gas Use	Engineering Units:	Not collected

Table 2 Event Timeline

Date	Event
May 1, 2017	Data collection begins.
May 11, 2017	Added to NYSERDA website.

Remeeder House - Sutter – Database Notes

Range Checks

Table 3. Range Checks

Data Point	Hourly Data Method	Units	Database Lower Range	Database Upper Range	Notes
DG/CHP Generator Output	Sum	kWh/int	-5	40	
DG/CHP Generator Output Demand	Max	kW	-5	40	
DG/CHP Generator Gas Use	Sum	Cfh	0	500	
Total Facility Purchased Energy	Sum	kWh/int	-	-	Not Installed
Total Facility Purchased Demand	Max	kW	-	-	Not Installed
Other Facility Gas Use	Sum	Cfh	-	-	Not Installed
Useful Heat Recovery	Sum	MBtu/h	0	300	
Unused Heat Recovery	Sum	MBtu/h	-	-	Not Installed
Status/Runtime of DG/CHP Generator	On/Off	On/Off	0	1	0 – 1, System On/System Off
Ambient Temperature	Avg	°F	-20	130	WUG Airport Code - RME

Notes:

1. This table contains values from *remeeder_sutter.csv*

Relational Checks

Table 4. Relational Checks

Evaluated Point	Criteria	Result