St Tropez Condominium – Database Notes

Table 1 Database Notes

Data Collection	Data Logger: Data Collection Interval: Collection Method:	Building BMS 15 – Minute Building BMS - FTP Upload
Site Information	Cogeneration Units: Nameplate Capacity: Heat Recovery Medium: Heat Recovery Uses: Excess Heat:	Two (2) Tecogen Inverde INV-100 reciprocating generator 200 kW Hot water Space heating and cooling The site does not dump heat – Load following.
DG/CHP Generator Electrical Output	Engineering Units: Energy Measurement (net/gross): Measurement Type:	kWh Gross Power Calculated: Measured kW / # intervals per hour
DG/CHP Generator Electrical Output Demand	Engineering Units: Measurement Type:	kW Measured Gross Power
DG/CHP Generator Fuel Input	Engineering Units: Measurement type:	CF Rotary gas meter with pulse output (Accumulated CF)
DG/CHP Useful Heat Recovery	Engineering Units: Heat Measurement Type:	MBtu/hr Calculated from 15 minute analog flow and temperature data
DG/CHP Unused Heat Recovery	Engineering Units: Heat Measurement Type:	MBtu/hr Calculated from 15 minute analog flow and temperature data
DG/CHP Status/Runtime	Engineering Units: Measurement Type:	Hours Calculated based on generator output

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Facility Purchased Energy	Engineering Units: Measurement Type:	kWh Calculated: Measured kW / # intervals per hour
Facility Purchased Demand	Engineering Units: Measurement Type:	kW Measured
Other Facility Gas Use	Engineering Units: Measurement Type:	CF Accumulated cubic feet

Table 2 Event Timeline

Date	Event
July 19, 2016	Data collection begins.
October 11, 2016	Added to NYSERDA website.
June 2, 2017	Heat recovery values added to NYSERDA website.
March 7, 2019	Data collection failed from January 11, 2019 to February 8, 2019, there will not be any data posted between these dates.
May 6, 2019	Data reporting at the site is currently down. Sentient is working to resolve the issue. Back data from 3/28 until the issue is resolved will likely be unavailable.
June 11, 2019	Data reporting at the site resumed on 4/15/19. Back data from 2/28 to 4/15 was not collected as the JACE that collects the data was locked up during that period.

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Range Checks

Table 3. Range Checks

Data Point	Units	Hourly Data Calculation Method	Database Lower Range	Database Upper Range	Notes
DG/CHP Generator Output (WG_d)	kWh/int	Sum	-10	210	*WG_d = WG_KW_d / # Intervals*
DG/CHP Generator Output Demand (WG_KW_d)	kW	Max	-10	210	
DG/CHP Generator Gas Use (FG_d)	cf/int	Sum	0	5000	
Total Facility Purchased Energy (WT_d)	kWh/int	Sum	0	2000	*WT_d = WT_KW_d / # Intervals*
Total Facility Purchased Demand (WT_KW_d)	kW	Max	0	2000	
Other Facility Gas Use (FT_d)	cf/int	Sum	0	90000	
Useful Heat Recovery (QHR_d)	MBtu/hr	Avg	0	2500	Calculated
Unused Heat Recovery (QD_d)	MBtu/hr	Avg	0	2500	Calculated
Status/Runtime of DG/CHP Generator (SG_d)	hr	-	0	1	System Off/System On (10 kW)
Ambient Temperature (TAO)	°F	Avg	-20	120	*WUG Airport Code - NYC*

Notes:

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

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Relational Checks

Table 4. Relational Checks

Evaluated Point	Criteria	Result

Notes:

1. This table contains values from *relational_checks.pro*