

# Shore View Nursing & Rehabilitation Center – Database Notes

**Table 1 Database Notes**

<b>Data Collection</b>	<u>Data Logger:</u> <u>Data Collection Interval:</u> <u>Collection Method:</u>	Obvius AcquiSuite A8810 1 Minute Obvius Upload Manager to CDH servers
<b>Site Information</b>	<u>Cogeneration Units:</u> <u>Nameplate Capacity:</u> <u>Heat Recovery Medium:</u> <u>Heat Recovery Uses:</u> <u>Excess Heat:</u>	Tecogen Inverde INV-100 reciprocating generator 100 kW Hot water Domestic hot water Rejected to atmosphere by dump radiator
<b>DG/CHP Generator Electrical Output</b>	<u>Engineering Units:</u> <u>Energy Measurement (net/gross):</u> <u>Measurement Type:</u>	kW/kWh Net Calculated = gross minus parasitics Accumulated kWh
<b>DG/CHP Generator Electrical Output Demand</b>	<u>Engineering Units:</u> <u>Measurement Type:</u>	kW Instantaneous kW reading
<b>DG/CHP Generator Fuel Input</b>	<u>Engineering Units:</u> <u>Measurement type:</u>	CF Rotary gas meter with pulse output
<b>DG/CHP Useful Heat Recovery</b>	<u>Engineering Units:</u> <u>Heat Measurement Type:</u>	MBtu (calculated value) One thermal loop – flowmeter and two temperature measurements across all useful loads
<b>DG/CHP Unused Heat Recovery</b>	<u>Engineering Units:</u> <u>Heat Measurement Type:</u>	MBtu (calculated value) Flowmeter and two temperature measurements across CHP dump radiator
<b>DG/CHP Status/Runtime</b>	<u>Engineering Units:</u> <u>Measurement Type:</u>	Hour When generator power greater than 30 kW

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<b>Facility Purchased Energy</b>	<u>Engineering Units:</u> <u>Measurement Type:</u>	Not collected
<b>Facility Purchased Demand</b>	<u>Engineering Units:</u> <u>Measurement Type:</u>	Not collected
<b>Other Facility Gas Use</b>	<u>Engineering Units:</u> <u>Measurement Type:</u>	Not collected

**Table 2 Event Timeline**

<b>Date</b>	<b>Event</b>
December 9, 2014	Logging begins
January 5, 2015	Data posted to NYSERDA DG/CHP website

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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	40	Database lower range less than zero to account for parasitic loads
DG/CHP Generator Output Demand (WG_KW_d)	kW	Max	-10	300	Database lower range less than zero to account for parasitic loads
DG/CHP Generator Gas Use (FG_d)	cf/int	Sum	0	5000	
Total Facility Purchased Energy (WT_d)	kWh/int	-			Not installed
Total Facility Purchased Demand (WT_KW_d)	kW	-			Not installed
Other Facility Gas Use (FT_d)	cf/int	-			Not installed
Useful Heat Recovery (QHR_d)	MBtu/int	-	0	6000	Calculated value
Unused Heat Recovery (QD_d)	MBtu/int	-	0	6000	Calculated value
Status/Runtime of DG/CHP Generator (SG_d)	hr	-	0	1	
Ambient Temperature (TAO)	°F	Avg	-20	130	WUG Airport code JFK

Notes:

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

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## *Relational Checks*

**Table 4. Relational Checks**

<b>Evaluated Point</b>	<b>Criteria</b>	<b>Result</b>
FG	$WG > 10$ and $FG \leq 0$	DQ Level for FG set to 2
WG	$FG > 100$ and $WG \leq 0$	DQ Level for WG set to 2

Notes:

1. This table contains values from *relational\_checks.pro*