## <u>Verizon – Forest Ave – Database Notes</u>

**Table 1 Database Notes** 

Data Collection	Data Logger: Data Collection Interval: Collection Method:	Obvius AcquiSuite (Site)  1 Min Obvius Upload Manager to CDH Servers
Site Information	Cogeneration Units: Nameplate Capacity: Heat Recovery Medium: Heat Recovery Uses: Excess Heat:	ClearEdge Power PureCell® Model 400 Fuel Cell 400 kW None
DG/CHP Generator Electrical Output	Engineering Units: Energy Measurement (net/gross): Measurement Type:	kWh Gross Accumulated kWh
DG/CHP Generator Electrical Output Demand	Engineering Units: Measurement Type:	kW Instantaneous kW Output
DG/CHP Generator Fuel Input	Engineering Units: Measurement type:	cf Instantaneous Fuel Input, converted from kg/h to cf/interval (lhv, 48,667 kJ/kg). Fuel Cell internal meter.
DG/CHP Useful Heat Recovery	Engineering Units: Heat Measurement Type:	
DG/CHP Unused Heat Recovery	Engineering Units: Heat Measurement Type:	
DG/CHP Status/Runtime	Engineering Units: Measurement Type:	

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Facility Purchased Energy	Engineering Units: Measurement Type:	
<b>Facility Purchased Demand</b>	Engineering Units: Measurement Type:	
Other Facility Gas Use	Engineering Units: Measurement Type:	

#### **Table 2 Event Timeline**

Date	Event	
5/8/2014	Data uploaded to NYSERDA website. Begin daily upload.	

### **Verizon – Forest Ave – Database Notes**

## 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	0	10	
DG/CHP Generator Output Demand (WG_KW_d)	kW	Max	0	500	
DG/CHP Generator Gas Use (FG_d)	cf/int	Sum	0	100	$kg/h \rightarrow cf/int (lhv, 48,667 kJ/kg)$
Total Facility Purchased Energy (WT_d)	kWh/int	-			
Total Facility Purchased Demand (WT_KW_d)	kW	-			
Other Facility Gas Use (FT_d)	cf/int	-			
Useful Heat Recovery (QHR_d)	MBtu/int	-			
Unused Heat Recovery (QD_d)	MBtu/int	-			
Status/Runtime of DG/CHP Generator (SG_d)	hr	-			
Ambient Temperature (TAO)	°F	Avg	-20	130	

Notes:

1. This table contains values from *vznyc\_forest.csv* 

### **Verizon – Forest Ave – Database Notes**

#### Relational Checks

**Table 4. Relational Checks** 

<b>Evaluated Point</b>	Criteria	Result

Notes:

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