

HOTEL BELLECLAIRE – DATABASE NOTES

Table 1 Database Notes

Data Collection	Data Logger: Data Collection Interval: Collection Method:	Obvius AcquiSuite A8812 1 – Minute Obvius Upload Manager to Frontier Energy servers
Project Information (CHP)	DER Unit (make & model): Nameplate Capacity: Heat Recovery Medium: Heat Recovery Uses:	One (1) Tecogen InVerde Ultra INV-100 Unit 100 kW Hot Water Domestic hot water (DHW) and space heating
DER Electricity Generated (WG)	Engineering Units: Energy Measurement (net/gross): Measurement Type:	kWh Gross Power Calculated using kW measurements from InVerde Unit.
Electric Utility Import (WI)	Engineering Units: Measurement Type:	kW Measured kW from InVerde Unit
DER Fuel Consumed (FG)	Engineering Units: Measurement type:	Cf Pulse output from Roots rotary gas meter
DER Heat Used (QU)	Engineering Units: Heat Measurement Type:	MBtu/hr Measured Btu/hr from an Onicon Btu Meter
DER Heat Rejected (QD)	Engineering Units: Heat Measurement Type:	MBtu/hr Measured Btu/hr from an Onicon Btu Meter

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Table 2 Event Timeline

Date	Event
January 1, 2017	Data collection begins. Gas data missing
September 22, 2017	Gas data begins.

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Range Checks

Table 3 Range Checks

Data Point	Units	Database Lower Range	Database Upper Range	Notes
DER Electricity Generated	kWh/hour	-10	150	
DER Fuel Consumed	cfh	0	2000	
DER Heat Used	MBtu/hour	0	2000	
DER Heat Rejected	MBtu/hour	0	2000	
Ambient Temperature	°F	-20	130	NOAA Airport Code - KNYC

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Relational Checks

Table 4 Relational Checks

Evaluated Point(s)	Criteria	Result
Electricity Generated Fuel Consumed	Daily Electric Efficiency < 0% HHV and > 100% HHV	Electricity Generated = invalid Fuel Consumed = invalid