Table 1 Database Notes

Data Collection	Data Logger: Data Collection Interval: Collection Method:	Red Lion data loggers 15-minute Automated Frontier Energy Python script; catcher.py	
Site Information	DER Unit (make & model): Nameplate Capacity: Heat Recovery Medium: Heat Recovery Uses: Excess Heat:	400 kW	
DER Electricity Generated (WG)	Engineering Units: Energy Measurement (net/gross): Measurement Type:	kWh Gross Accumulated energy from Intelisys NT engine controller	
Biogas to Generator (FGE)	Engineering Units: Measurement type:	cf Accumulated cf from Sage gas meter	
Biogas to Flare (FGF)	Engineering Units: Measurement type:	cf Accumulated cf from Sage gas meter	
H2S to Scrubber (H2S_IN)	Engineering Units: Measurement type:	ppm INCA gas analyzer; 30-minute samples	
H2S to Generator (H2S_OUT)	Engineering Units: Measurement type:	ppm INCA gas analyzer; 30-minute samples	
Methane Content (CH4)	Engineering Units: Measurement type:	% CH ₄ INCA gas analyzer; 30-minute samples	

Table 2 Event Timeline

Date	Event	
December 2, 2009	Data collection for new ADG system, from Red Lion data logger, begins. Data points include FGE, FGF.	
February 17, 2010	Generator power output added to logged data file.	
May 27, 2015	Scrubber installation is completed. Scrubber data points CH4, H2S_IN, and H2S_OUT added to website.	

Range Checks

Table 3 Range Checks

Data Point	Units	Database Lower Range	Database Upper Range	Notes
DER Electricity Generated	kWh/hour	0	650	
Biogas to Generator	cfh	0	20,000	
Biogas to Flare	cfh	0	20,000	
H2S to Scrubber	ppm	0	4,000	
H2S to Generator	ppm	0	4,000	
Methane Content	%	0	100	
Ambient Temperature	°F	-20	130	NOAA Airport Code - KBUF

Relational Checks

Table 4 Relational Checks

Evaluated Point(s)	Criteria	Result