MATT BREWING COMPANY – DATABASE NOTES

Table 1 Database Notes

Data Collection	Data Logger: Data Collection Interval: Collection Method:	Facility SCADA System 15-minute Emailed to data_collection@cdhenergy.com
Site Information	DER Unit (make & model): Nameplate Capacity: Heat Recovery Medium: Heat Recovery Uses: Excess Heat:	One (1) 2g Agenitor 212; 480 VAC, 3 phase, 60 hz 400 kW Hot glycol/water loop Digester heating and pump house heating. Rejected from the recovered heat loop by a dump radiator.
DER Electricity Generated (WG)	Engineering Units: Energy Measurement (net/gross): Measurement Type:	kWh Gross Accumulated kWh/int from pulse output.
Biogas to Generator (FGE)	Engineering Units: Measurement type:	cf Accumulated value from gas meter pulse output.

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Table 2 Event Timeline

Date	Event
November 11, 2013	Matt Brewing Company begins sending data files.
March 9, 2020	Facility began blending natural gas (NG) and biogas (BG), resulting in electrical efficiency > 100%. Ratios of NG and BG unknown, therefor gas data after February 6, 2020 marked invalid. Relational checks added.

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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	0	410	
Biogas to Generator	cfh	0	15,000	
Ambient Temperature	°F	-20	130	NOAA Airport Code - KSYR

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Relational Checks

Table 4 Relational Checks

Evaluated Point(s)	Criteria	Result
Electricity Generated Fuel Consumed	Fuel Consumed > 0 and Electricity Generated Invalid Electricity Generated > 0 and Fuel Consumed Invalid	Fuel Consumed = invalid Electricity Generated = invalid