

Boxler Addendum

Site Events

Date	Event
12/2/2009	Gas flow data begins recording
2/17/2010	Power output begins recording

Hardware

Device	Serial #	Output	Carbon Catcher Data Point
Sage SIP-05-06	48298	CF & CFM	SCFM_Engine1
Sage SIP-05-1 (flare)	48297	CF & CFM	SCFM_Flare
Intelisys NT Controller		KWh (acc)	G1_KWH_Output

Database Setup

Chan Name	Device	column
SCFM_Flare,	FlowRate,	2
SCFM_Engine1,	FlowRate,	3
SCF_Total_Flare,	GasUsage,	2
Flare1_Temp,	GasUsage,	3
SCF_Total_Engine1,	GasUsage,	4
G1_KWH_Output,	GasUsage,	5

Sensor Verification

Power Meters

Gentec Panel	Carbon Catcher	Manual Measurement
248 kW	246 kW	246 kW
Engine Eff (%)=	18.05%	

Biogas Flow Meters

Flow Meters: Sage						
	Sage (scf/h)	Sage (acc)	Carbon Catcher (scf/h)	Carbon Catcher (acc)	% Difference (scf/h)	% Difference (acc)
FGE	6360	12485829	6360	12485882	0.00%	0.00%
FGF	2940		3240	8459223	10.20%	n/a



Carbon Catcher Display



GenTec Display



Sage Meter – Engine Flow



Power Verification