

Permit Number: EPR/AB3093CA Operator: Kelda Organic Energy (Cardiff) Ltd

Facility: Tremorfa Anaerobic Digestion Facility Form Number: Performance1 – 01/01/16

Reporting of other performance indicators for the period 31/12/2016 to 01/01/2018

Parameter	Units
Power Output – Electricity	8075 MWh
Energy Efficiency	0.00238 MWh/m ³ Biogas
Electrical Energy – Exported to the grid	N/A MWh
Electrical Energy – Drawn from the grid	245.3 MWh
Operational running time of the flare	1851 Hours
Amount of biogas combusted in the CHP unit per day	9291.75 m ³ /day
Total amount of Waste Treated	23,934.75 Ton

Operator's comments :

Signed  Date: 27/01/2018
(Authorised to sign as representative of Operator)

Permit Number: EPR/AB3093CA Operator: Kelda Organic Energy (Cardiff) Ltd
 Facility: Tremorfa Anaerobic Digestion Facility Form Number: WaterUsage1 – 01/01/16

Reporting of Water Usage for the year 2017

Water Source	Usage (m ³ /year)	Specific Usage (m ³ /unit output)
Mains water	10970 m ³	
TOTAL WATER USAGE	10970 m³	

Operator's comments :

Signed  Date: 27/01/2018
 (Authorised to sign as representative of Operator)

Permit Number: EPR/AB3093CA Operator: Kelda Organic Energy (Cardiff) Ltd

Facility: Tremorfa Anaerobic Digestion Facility Form Number: Air1 – 01/01/16

Reporting of emissions to air for the period from 31/12/2016 to 01/01/2018

Emission Point	Substance / Parameter	Emission		Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
		Limit Value	Value					
A2	Particulate Matter PM ₁₀	No Limit		1 hour period	1.09		18/12/2017 12:22 – 13:22	0.56
A2	Total VOC's	1000mg/m ³		1 hour period	327.2	In accordance with guideline M2 'Monitoring of stack emissions to air'	18/12/2017 12:22 – 13:22	20.9
A2	Carbon monoxide	1400 mg/m ³		1 hour period	647.2		18/12/2017 12:22 – 13:22	8.6
A2	Sulphur dioxide	350 mg/m ³		1 hour period	352.8		18/12/2017 12:22 – 13:22	35.6
A2	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	500 mg/m ³		1 hour period	432.0		18/12/2017 12:22 – 13:22	8.6
A5	Carbon monoxide	50 mg/m ³		1 hour period	13.2		13/12/2017 14:50 – 15:50	20.2
A5	Total VOC's	10 mg/m ³		1 hour period	12.7	In accordance with guideline M2 'Monitoring of stack emissions to air'	13/12/2017 14:50 – 15:50	7.4
A5	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	150 mg/m ³		1 hour period	82.7		13/12/2017 14:50 – 15:50	2.3

- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed 
(Authorised to sign as representative of Operator)

Date *27/01/2018*