

Permit Number: EPR/AB3092ZE

Operator: Bryn Power Limited

Facility: AD Facility at Gelliargwell Farm

Form Number: Air1 / DD/MM/20

Reporting of emissions to air for the period from 20/01/2021 to 20/01/2022

Emission							
Emission Point	Substance / Parameter	Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
A1 CHP Exhaust	Oxides of Nitrogen (NO and NO2 expressed as NO2)	500mg/m³	Hourly mean	395	BS EN 14792	11:55 – 12:55 17.11.2020	17
	Carbon Monoxide	1400mg/m³	Hourly mean	854	BS EN 15058	11:55 – 12:55 17.11.2020	32
	Sulphur Dioxide	350mg/m³	Hourly mean	89.4	BS EN 14791	11:55 – 12:55 17.11.2020	20
	VOC's	2000mg/m³	Hourly mean	1436	BS EN 12619	11:55 – 12:55 17.11.2020	54
A5 CHP Exhaust	Oxides of Nitrogen (NO and NO2 expressed as NO2)	500mg/m³	Hourly mean	423	BS EN 14792	13:30 – 14:30 17.11.2020	21
	Carbon Monoxide	1400mg/m³	Hourly mean	711	BS EN 15058	13:30 – 14:30 17.11.2020	30
	Sulphur Dioxide	350mg/m³	Hourly mean	70.2	BS EN 14791	13:30 – 14:30 17.11.2020	4
	VOC's	2000mg/m³	Hourly mean	1310	BS EN 12619	13:30 – 14:30 17.11.2020	51
A2 Flare Stack Note5	Oxides of Nitrogen (NO and NO2 expressed as NO2)	150mg/m³	Hourly mean	N/A	BS EN 14792	N/A	N/A
	Total Volatile Organic Compounds (VOCs)	10mg/m³	Hourly mean	N/A	BS EN 12619	N/A	N/A
	Carbon Monoxide	50mg/m³	Hourly mean	N/A	BS EN 15058	N/A	N/A

[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.

[5] Monitoring of flare emissions is only necessary when the flare operated in excess of 10% of the time

A handwritten signature in black ink, appearing to be 'S. M. i.', is written over a light blue rectangular background.

Signed

(Authorised to sign as representative of Operator)

Date.....31/01/2022.....

Permit Number: EPR/AB3092ZE

Operator: Bryn Power Limited

Facility: AD Facility at Gelliargwellt Farm

Form Number: Water 1 / DD/MM/20

Reporting of emissions to water (other than to sewer) and land for the year 2021 to 2022

Parameter	Units	Result
Batches of water tested for discharge criteria (ammonia, and/or visual check)	number	21
Batches of water passed all tests and discharged to W1 soakaway	number	21
Batches of water failed one or more test not released to W1 soakaway	number	0

Signed
(Authorised to sign as representative of Operator)

Date.....31.01.22.....

Permit Number: EPR/AB3092ZE

Operator: Bryn Power Limited

Facility: AD Facility at Gelliargwellt Farm

Form Number: Performance1 / DD/MM/20

Reporting of other performance indicators and production/treatment for the period 20/01/2021 to 20/01/2022

Parameter	Value	Units
Power output – Electricity	7128	MWh
Energy efficiency	0.002	MWh/m ³ biogas
Electrical energy exported to the grid	3957	MWh
Electrical energy drawn from the grid	11	MWh
Water usage	825.32	m ³
Operational time of emergency flare	0	% of operational time
Amount of biogas combusted in the CHP unit per day	8345.308	m ³ /day
Biogas produced by AD facility	3046037.6	m ³
Total waste treated	28,104.31	tonnes

Operator's comments:

Better year, less impact from covid.

Looking to possibly expand the plant. Another tank and engine and then look at weather I need a permit alteration. Will update when I know more.

Signed 

Date.....31.01.2022.....

(Authorised to sign as representative of Operator)