

Permit Number: AB3191FR

Operator: Severn Trent Green Power (Bridgend) Limited

Facility: Parc Stormy AD Facility

Form Number: Air1 / 17/08/2022

Reporting of emissions to air for the period from 01/01/2024 to 31/12/2024 effective from 17 August 2022

Emission Point	Substance / Parameter	Emission		Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value	Reference Period				
A1	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	500 mg/m ³	Hourly mean	423	BS EN 14792	17/10/24	+/-15.8
A1	Sulphur Dioxide	350 mg/m ³	Hourly mean	21.2	BS EN 14791	17/10/24	+/-3.4
A1	Non-methane Volatile Organic Compounds (VOCs)	75mg/m ³	Hourly mean	1.6	BS EN 12619 or 13526 depending on concentration	17/10/24	+/-0.65
A1	Volatile Organic Compounds (VOCs)	1000 mg/m ³	Hourly mean	570		17/10/24	+/-18.8
A1	Carbon monoxide	1400 mg/m ³	Hourly mean	758	BS EN 15058	17/10/24	+/-32
A2	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	500 mg/m ³	Hourly mean	495	BS EN 14792	17/10/24	+/-18.5
A2	Sulphur Dioxide	350 mg/m ³	Hourly mean	10.6	BS EN 14791	17/10/24	+/-1.7
A2	Non-methane Volatile Organic Compounds (VOCs)	75mg/m ³	Hourly mean	1.6	BS EN 12619 or 13526 depending on concentration	17/10/24	+/-0.44
A2	Volatile Organic Compounds (VOCs)	1000 mg/m ³	Hourly mean	673		17/10/24	+/-22.3
A2	Carbon monoxide	1400 mg/m ³	Hourly mean	897	BS EN 15058	17/10/24	+/-37.9

Emission							
Emission Point	Substance / Parameter	Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
A5 Biofilter and Scrubber Unit	Hydrogen Sulphide (H ₂ S)	No limit set	Every 6 months	1.3	US EPA Method 11 (Impinger method) or CEN TS 13649 (Charcoal tube), US EPA Method 15	12/12/24	+/-0.25
A5 Biofilter and Scrubber Unit	Ammonia (NH ₃)	20 mg/Nm ³	Every 6 months	2.0	BS EN 21877	12/12/24	+/-0.36

[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: [REDACTED] Date: 28/01/2025
(Authorised to sign as representative of Operator)

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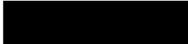
Form Number: Waterusage 1 / 01/01/2016

Reporting of Water Usage for the year 2024

Water Source	Usage (m ³ /year)	Specific Usage (m ³ /unit output)
Mains water	783.388	
Bore Hole	2630	
TOTAL WATER USAGE	3,413.388	

Operator's comments:

Water used on site for the biofilter scrubber, pressure washing delivery vehicles, washing the building and general upkeep of site cleanliness.

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Operator: Severn Trent Green Power (Bridgend) Limited

Facility: Parc Stormy AD Facility

Form Number: Energy 1 / 03/03/2021

Reporting of Energy Usage for the year 2024

Energy Source	Energy Usage		Specific Usage (MWh/unit output)
	Quantity	Primary Energy (MWh)	
Electricity *	MWh	23.35	
Natural Gas	MWh	0	
Gas Oil	tonnes	5.01	
Recovered Fuel Oil	tonnes	0	
TOTAL	-	28.36	

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments:

Gas oil used for fuelling of site telehandler and pressure washer unit.

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Form Number: Performance 1 / 17/08/2022

Reporting of other performance indicators for the period 01/01/2024 to 31/12/2024 effective from 17 August 2022

Parameter	Units
Power output – electricity	23696.092 MWh
Energy efficiency	425.010 MWh/m ³ biogas
Electrical energy exported to the grid	21,164.952 MWh
Electrical energy drawn from the grid	9.73 MWh
Total raw material used	58,947 tonnes
Operational time of emergency flare	2.75%
Amount of gas sent to flare	289,200 m ³
Amount of biogas combusted in the CHP unit per day	13796 m ³ /day
Generation of residues	2,619 Tonnes
Generation of wastewater	0 m ³

Operator's comments:

-CHP major services resulted in an increase in power imported from the grid.
Total amount of waste and raw materials 58,947 tonnes (0 raw materials, 58,947 waste)

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