

Appendix 1 – Air 1 Reporting Form

Permit Number:	EPR/AB3191FR	Operator:	Severn Trent Green Power Group Limited
Facility:	Stormy Down Food Waste Anaerobic Digestion Facility		

Reporting of emissions to air for the period from 01/01/2021 to 31/12/2021

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
A1	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	500 mg/m ³	Hourly average	508mg/m ₃	In accordance with that described in the Agency's Technical Guidance Note M2 "Monitoring of stack emissions to Air"	17/08/21 _ 11:05-12:05	±20
A1	Sulphur dioxide	350 mg/m ³	Hourly average	28.5mg/m ₃		17/08/21 _ 11:05-12:05	±2.4
A1	Carbon monoxide	1400 mg/m ³	Hourly average	744mg/m ₃		17/08/21 _ 11:05-12:05	±28
A1	Total VOCs	1000 mg/m ³	Hourly average	850mg/m ₃		17/08/21 _ 11:05-12:05	±29
A2	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	500 mg/m ³	Hourly average	415mg/m ₃	In accordance with that described in the Agency's Technical Guidance Note M2 "Monitoring of stack emissions to Air"	17/08/21 _ 12:30-13:30	±16
A2	Sulphur dioxide	350 mg/m ³	Hourly average	14.5mg/m ₃		17/08/21 _ 12:30-13:30	±1.2
A2	Carbon monoxide	1400 mg/m ³	Hourly average	821mg/m ₃		17/08/21 _ 12:30-13:30	±31
A2	Total VOCs	1000 mg/m ³	Hourly average	887mg/m ₃		17/08/21 _ 12:30-13:30	±31

- 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 the Environment Agency is used, then the appropriate identifier is given.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence level, unless otherwise stated.

Appendix 2 – Water Usage 1 Reporting Form - Water Usage for the year 2021

Permit Number:	EPR/AB3191FR	Operator:	Severn Trent Green Power Group Limited
Facility:	Stormy Down Food Waste Anaerobic Digestion Facility		

Reporting of other performance indicators for the period 01/01/2021 to 31/12/2021

Water Source	Usage (m ³ /year)	Specific Usage (m ³ /unit output)
Mains water	375.856	
Site borehole	4421	
TOTAL WATER USAGE	4796.856	

Operator's comments:

- Due to Covid access to welfare cabin has been restricted for drivers, so less mains water has been used
- **Borehole water has been used for biofilter scrubber, pressure washing of delivery waste vehicles. Also used for washing the reception building floor and general GHK of site.**

Appendix 3 – Energy 1 - Energy Usage for the year 2021

Permit Number:	EPR/AB3191FR	Operator:	Severn Trent Green Power Group Limited
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Reporting of other performance indicators for the period 01/01/2021 to 31/12/2021

Energy Source	Energy Usage		Specific Usage (MWh/unit output)
	Quantity	Primary Energy (MWh) FWAD electricity consumption	
Electricity *	MWh	9.6672	
Natural Gas	MWh	N/A	
Gas Oil	tonnes	3.75	
Recovered Fuel Oil	tonnes	N/A	

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments: <ul style="list-style-type: none"> Gas oil is only used for running site machinery -i.e Telehandler.

Appendix 4 – Performance 1 - Other Performance Indicators for the year 2021

Permit Number:	EPR/AB3191FR	Operator:	Severn Trent Green Power Group Limited
Facility:	Stormy Down Food Waste Anaerobic Digestion Facility		

Reporting of other performance indicators for the period 01/01/2021 to 31/12/2021

Parameter		Units
Total amount of waste treated (FWAD Feedstock + Maize)	Waste = 44864.052 Maize = 3079.273	Waste = Tonnes Maize = Tonnes
Power output - Electricity	24728.866	MWh
Operational time of the flare	23.1	Hrs
Energy efficiency	437.60	MWh/m ³ biogas
Electrical energy exported to the grid	21827.707	MWh
Electrical energy drawn from the grid	4.028	MWh
Amount of biogas combusted in the CHP unit per day	14823.49	m ³ /day
Amount of biogas generated	10 821 111	m ³

Operator's comments:

- 40000hr service carried out on each CHP
- This results in more power drawn from the grid and less exported.

SignedRob Williams

(Authorised to sign as representative of Operator

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Date...05/01/2022.....

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