

Permit Number: **EPR/DP3137EG**

Operator: **Margam Green Energy Limited**

Facility: **Margam Green Energy Plant**

Form Number: **Air 2**

Date : **02/02/2023**

Reporting of periodic monitoring <sup>[1]</sup> of emissions to air for the period from

**01/07/2022 to 31/12/2022**

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result <sup>[2]</sup>	Test Method <sup>[3]</sup>	Result Date & Time <sup>[4]</sup>	Uncertainty <sup>[5]</sup>
A1	Cadmium & thallium and their compounds (total)	0.05 mg/m <sup>3</sup>	periodic over minimum 30 minute, maximum 8 hour period	0.00081 mg/m <sup>3</sup>	BS EN 14385	08 December 2022 08:16 - 10:20	+/- 0.00089 mg/m <sup>3</sup>
	Mercury and its compounds	0.05 mg/m <sup>3</sup>	periodic over minimum 30 minute, maximum 8 hour period	0.0011 mg/m <sup>3</sup>	BS EN 13211	08 December 2022 10:32 - 13:58	+/- 0.00077 mg/m <sup>3</sup>
	Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total)	0.5 mg/m <sup>3</sup>	periodic over minimum 30 minute, maximum 8 hour period	0.0284 mg/m <sup>3</sup>	BS EN 14385	08 December 2022 08:16 - 10:20	+/- 0.0041 mg/m <sup>3</sup>
	Dioxins / furans (I-TEQ)	0.1 ng/m <sup>3</sup>	periodic over minimum 6 hours, maximum 8 hour period	0.0284 ng/m <sup>3</sup>	BS EN 1948 Parts 1, 2 and 3	06 December 2022 08:56 - 15:04	+/- 0.0043 ng/m <sup>3</sup>
	Dioxins / furans (WHO-TEQ Humans / Mammals)	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0280 ng/m <sup>3</sup>	BS EN 1948 Parts 1, 2 and 3	06 December 2022 08:56 - 15:04	+/- 0.0043 ng/m <sup>3</sup>
	Dioxins / furans (WHO-TEQ Fish)	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0313 ng/m <sup>3</sup>	BS EN 1948 Parts 1, 2 and 3	06 December 2022 08:56 - 15:04	+/- 0.0048 ng/m <sup>3</sup>
	Dioxins / furans (WHO-TEQ Birds)	No Limit Set	periodic over minimum 6 hours, maximum 8 hr period	0.0467 ng/m <sup>3</sup>	BS EN 1948 Parts 1, 2 and 3	06 December 2022 08:56 - 15:04	+/- 0.0071 ng/m <sup>3</sup>

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result <sup>[2]</sup>	Test Method <sup>[3]</sup>	Result Date & Time <sup>[4]</sup>	Uncertainty <sup>[5]</sup>
A1	Dioxin-like PCBs (WHO-TEQ Humans / Mammals)	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0026 ng/m <sup>3</sup>	BS EN 1948-4	06 December 2022 08:56 - 15:04	+/- 0.00013 ng/m <sup>3</sup>
	Dioxin-like PCBs (WHO-TEQ Fish)	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.00013 ng/m <sup>3</sup>	BS EN 1948-4	06 December 2022 08:56 - 15:04	+/- 0.0000066 ng/m <sup>3</sup>
	Dioxin-like PCBs (WHO-TEQ Birds)	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0047 ng/m <sup>3</sup>	BS EN 1948-4	06 December 2022 08:56 - 15:04	+/- 0.00024 ng/m <sup>3</sup>
	Specific individual poly-cyclic aromatic hydrocarbons (PAHs) Total	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.2100 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	06 December 2022 08:56 - 15:04	+/- 0.0777 µg/m <sup>3</sup>
	Anthanthrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0012 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	06 December 2022 08:56 - 15:04	202.6%
	Benzo{a}anthracene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0012 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	06 December 2022 08:56 - 15:04	202.6%
	Benzo[b]fluoranthene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0012 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	06 December 2022 08:56 - 15:04	202.6%
	Benzo[k]fluoranthene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0012 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	06 December 2022 08:56 - 15:04	202.6%
	Benzo[b]naph(2,1-d)thiophene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0012 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	06 December 2022 08:56 - 15:04	202.6%

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A1	Benzo[c]phenanthrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0012 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	06 December 2022 08:56 - 15:04	202.6%
	Benzo[ghi]perylene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0012 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	06 December 2022 08:56 - 15:04	202.6%
	Benzo[a]pyrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0012 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	06 December 2022 08:56 - 15:04	202.6%
	Cholanthrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0012 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	06 December 2022 08:56 - 15:04	202.6%
	Chrysene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0029 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	06 December 2022 08:56 - 15:04	88%
	Cyclopenta(c,d)pyrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0012 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	06 December 2022 08:56 - 15:04	202.6%
	Dibenzo[ah]anthracene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0012 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	06 December 2022 08:56 - 15:04	202.6%
	Dibenzo[a,i]pyrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0012 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	06 December 2022 08:56 - 15:04	202.6%
	Fluoranthene	No Limit Set	periodic over minimum 6 hours, maximum 8 hr period	0.0270 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	06 December 2022 08:56 - 15:04	33.3%

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result <sup>[2]</sup>	Test Method <sup>[3]</sup>	Result Date & Time <sup>[4]</sup>	Uncertainty <sup>[5]</sup>
A1	Indo[1,2,3-cd]pyrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0012 µg/m3	BS ISO 11338 Parts 1 and 2	06 December 2022 08:56 - 15:04	202.6%
	Naphthalene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.1678 µg/m3	BS ISO 11338 Parts 1 and 2	06 December 2022 08:56 - 15:04	32.2%

1. Monitoring frequency is quarterly in the first permitted year and twice a year thereafter.
2. For dioxins and dioxin-like PCBs, the results are to be reported as a range based on: All congeners less than the detection limit assumed to be zero as a minimum, and all congeners less than the detection limit assumed to be at the detection limit as a maximum.
3. Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the NRW is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
4. The date and time of the sample that produced the result is given.
5. The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.
6. Values stated in RED were not detected. The concentration provided represents the analysis technique limit of detection.



Signed Paul Fitzsimmons  
(Authorised to sign as representative of **Margam Green Energy Limited**)

Date: 02/02/2023