

Permit Number: **EPR/DP3137EG**

Operator: **Margam Green Energy Limited**

Facility: **Margam Green Energy Plant**

Form Number: **Air 2**

Date : **25/10/2023**

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

**01/01/2023 to 31/12/2023**

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	0.0005 mg/m <sup>3</sup>	BS EN 14385	17/08/2023 13:20-15:26	0.0010 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	0.0006 mg/m <sup>3</sup>	BS EN 13211	15/08/2023 09:20-10:25 10:32-11:35 11:41-12:45	0.0009 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	0.021 mg/m <sup>3</sup>	BS EN 14385	17/08/2023 13:20-15:26	0.004 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	0.0199 ng/m <sup>3</sup>	BS EN 1948 Parts 1, 2 and 3	15/08/2023 13:00-19:10	0.0030 mg/m <sup>3</sup>
	Dioxins / furans (WHO-TEQ Humans / Mammals)	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0025 ng/m <sup>3</sup>	BS EN 1948 Parts 1, 2 and 3	15/08/2023 13:00-19:10	0.0031 ng/m <sup>3</sup>
	Dioxins / furans (WHO-TEQ Fish)	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0226 ng/m <sup>3</sup>	BS EN 1948 Parts 1, 2 and 3	15/08/2023 13:00-19:10	0.0034 ng/m <sup>3</sup>
	Dioxins / furans (WHO-TEQ Birds)	No Limit Set	periodic over minimum 6 hours, maximum 8 hour	0.0332 ng/m <sup>3</sup>	BS EN 1948 Parts 1, 2 and 3	15/08/2023 13:00-19:10	0.0050 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>
			period				

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	0.0025 ng/m <sup>3</sup>	BS EN 1948-4	15/08/2023 13:00-19:10	0.0001 ng/m <sup>3</sup>
	Dioxin-like PCBs (WHO-TEQ Fish)	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0001 ng/m <sup>3</sup>	BS EN 1948-4	15/08/2023 13:00-19:10	0.0000 ng/m <sup>3</sup>
	Dioxin-like PCBs (WHO-TEQ Birds)	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0043 ng/m <sup>3</sup>	BS EN 1948-4	15/08/2023 13:00-19:10	0.0002 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	0.10 ug/ m <sup>3</sup>	BS ISO 11338 Parts 1 and 2.	16/08/2023 09:30-15:36	83%
	Anthanthrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0015 ug/ m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	16/08/2023 09:30-15:36	211.3%
	Benzo{a}anthracene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0015 ug/ m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	16/08/2023 09:30-15:36	211.3%
	Benzo[b]fluoranthene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0015 ug/ m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	16/08/2023 09:30-15:36	211.3%
	Benzo[k]fluoranthene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0015 ug/ m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	16/08/2023 09:30-15:36	211.3%
	Benzo[b]naph(2,1-d)thiophene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour	<0.0015 ug/ m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	16/08/2023 09:30-15:36	211.3%

			period				
--	--	--	--------	--	--	--	--

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	Benzo[c]phenanthrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0015 ug/ m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	16/08/2023 09:30-15:36	211.3%
	Benzo[ghi]perylene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0015 ug/ m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	16/08/2023 09:30-15:36	211.3%
	Benzo[a]pyrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0015 ug/ m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	16/08/2023 09:30-15:36	211.3%
	Cholanthrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0015 ug/ m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	16/08/2023 09:30-15:36	211.3%
	Chrysene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0015 ug/ m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	16/08/2023 09:30-15:36	211.3%
	Cyclopenta(c,d)pyrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0015 ug/ m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	16/08/2023 09:30-15:36	211.3%
	Dibenzo[ah]anthracene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0015 ug/ m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	16/08/2023 09:30-15:36	211.3%
	Dibenzo[a,i]pyrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0015 ug/ m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	16/08/2023 09:30-15:36	211.3%
	Fluoranthene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour	0.02 ug/ m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	16/08/2023 09:30-15:36	70.7%

			period				
--	--	--	--------	--	--	--	--

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	<0.0015 ug/ m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	16/08/2023 09:30-15:36	211.3%
	Naphthalene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.06 ug/ m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	16/08/2023 09:30-15:36	68.4%

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 Environment Agency 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.



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

Date: 25/10/2023