

RWE

**2022 Annual
Performance
Report**
**Aberthaw Power
Station**

Permit Number: RP3133LD
Date: February 2023
Issue: Final

A decorative graphic in the bottom right corner consisting of numerous thin, light blue curved lines that fan out from the bottom left towards the top right, creating a sense of motion or a stylized wave pattern.

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2022 Annual Performance Report Aberthaw Power Station

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Environmental Consenting and Permitting

Summary

This document provides details of the performance of Aberthaw Power Station's activities throughout 2022 as required by 4.2.2 of the Station's Environmental Permit (EP) RP3133LD.

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1. Operational Update

The main coal fired units at Aberthaw Power Station stopped generating at the end of 2019; the OCGTs ceased operation at the end of March 2000. There was no commercial power generation at the power station during 2022.

During 2022, the site sales process continued and it is anticipated that the site will be sold and the Environmental Permit transferred to the new owner in early 2023.

2. Review of Results for Emissions Monitoring

2.1. Air Quality Review

There were no emissions to air from Aberthaw Power Station during 2022. The main coal fired units ceased operation at the end of 2019 and the OCGTs ceased operation during 2020.

2.2. Water Quality Review

Discharges to water during 2022 were from the site surface water drainage systems as the operational units of the power station did not operate in 2022.

Table 1 lists the average values for emissions to water parameters for the site for the year 2022.

Emission Point	Parameter	EP ELV	Measured Data	Units	Result Type	Reference Period	Notes
W2	Differential total suspended solids	50	No longer reported	mg/l	Maximum	Monthly average of daily samples (above background)	No longer reported
	Ammoniacal nitrogen	0.1	0.42	mg/l		Monthly average of daily samples (above background)	Absolute, not differential
	Differential temperature	13.5	No longer reported	°C		98%ile of continuous daily average values	Temperature at ambient. No thermal process during 2022 therefore no data to report for this parameter
	Total hydrocarbon oil	3	0.02	mg/l		Monthly average of daily samples	
	pH	5.6	7.82	pH units	Minimum	Instantaneous	Average Jan-Nov. No data reported for Dec 2022 as instrument no longer operational
		5.8	8.00			95%ile of instantaneous measurements	
		8.5	8.22		Maximum	95%ile of instantaneous measurements	
	Mercury	60	No longer reported	kg	Annual	Annual Mass Release	No longer reported

Table 1 Emission Point W2 (Cooling Water Outlet)

Emission points SWTP1 and SWPT2 are not reported as they relate to the FGD which did not operate during 2022.

3. Annual Production / Treatment Data 2022 (Table S4.2 EP)

LCP 283: Units 7,8 and 9 coal-fired boilers	n/a Units 7,8 and 9 did not operate in 2022	GWh
LCP 423: GT7, GT8 and GT9 gas oil-fired black start gas turbines	n/a GT7, GT8, and GT9 did not operate during 2022	GWh

Table 2 Annual Production Data for 2022

4. Performance Parameters 2022 (Table S4.3 EP)

LCP283 ceased operation at the end of December 2019. LCP423 ceased operation at the end of March 2020. There will be no further LCP returns for the site.

5. LCP283 Cumulative Rolling Breakdown and Malfunction Hours

LCP283 did not operation during 2022.

6. Contamination / Decontamination of Site

There have been no incidents or emissions which have caused any site contamination during 2022.

During 2022, an area of historical contamination was identified during excavation works near to the 132kV substation. The contamination was identified as being historical and has been recorded for future monitoring and remediation as part of the wider site development (by others, pending imminent site sale).