Operator: **AB Connectors Ltd** Permit Reference Number: **BV7443IP**

Installation: **Abercynon Inorganics**

Reporting of Emissions to Air for the year 2024 Form Number: **A1**

Emission Point	Substance or Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
A1	Particulate matter	2 mg/m³	0.72	EN13284-1	05/12/2024	MCERTS	
A2	Particulate matter	10 mg/m³	3.6	EN13284-1	05/12/2024	MCERTS	
A3	Particulate matter	2 mg/m³	0.91	EN13284-1	05/12/2024	MCERTS	
A4	Scrubber liquor pH minimum	10.5	11.51				
A4	Oxides of nitrogen (as NO_2)	1.5 mg/m³	2.4	EN14792	04/12/2024	MCERTS	
A4	Particulate matter	2 mg/m³	0.77	EN13284-1	05/12/2024	MCERTS	
Installation	Solvent consumption	3000 kg/year	0				

Operator's comments :

* Emissions to air A4,Oxides of Nitrogen (as NO2). The original emission limit values were based on historic measurements of Nitric Acid mist so the Emission Limit Value is not accurate for NOX . Emission value to be reviewed.

[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 Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.
[3] For non-continuous measurements the date and time of the sample that produced the result is given.
[4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.
[5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed [redacted] Date 27.01.2025

(Authorised to sign as representative of the Operator)

Date of Form:01/2006

Operator: AB Connectors Ltd

Permit Reference Number:BV7443IP

Installation: Abercynon Inorganics

Form Number:E1

Reporting of Energy Usage for the year 2024

Energy Source	Energy Usage		CO2 Produced (Tonnes)
	Quantity	Primary Energy (MWh)	
Electricity*	MWh	3900.1488	807.52
Natural Gas	MWh	1025.157	219.89
Total		4925.3058	1027.41

Trends in Energy Usage			
Year	Parameters		
	Primary Energy usage (MWh)	CO2 Produced (Tonnes)	CO2 Produced per unit output (Tonnes/Tonnes)
2016	6639.307	2854.9	
2017	7528.11	3237.1	
2018	7238.26	3112.5	
2019	6962.516	2994.2	
2020	7169.201	3082.73	
2021	6758.145	2905.97	
2022	6234.32	2680.8	
2023	4899.568	2045.81	
2024	4925.3058	1027.41	

*conversion factor for delivered electricity to primary energy =2.4

Operator's comments : Conversion Factor for Primary Energy to C02 Production

Natural gas KWh (Gross CV) Kg CO2e = 0.21450

Electricity KWh Kg CO2e = 0.20705

Signe[redacted]

(Auth[redacted])

Date 28.01.2025

Operator: AB Connectors Ltd

Permit Reference Number:BV7443IP

Installation: Abercynon Inorganics

Form Number: PI1

Reporting of performance indicators for the year.....2024.....

Annual Production/Treatment	
Quantity of cadmium processed	150 Kg Cd

Environmental Performance Indicators (EPI's)

Parameter	Current Year	Units
Primary Energy Usage	4925.3058	MWh
Water Use	3130	m3
Effluent Discharge	1407	m3
Hazardous Waste	60,440	kg
Non-Hazardous Waste	105,900	kg

Trends in Environmental performance

Year	Parameter				
	Primary Energy	Water Use	Effluent discharge	Hazardous Waste	Non-hazardous Waste
	MWh/kg	m3/kg	m3/kg	kg/kg	kg/kg
2017	49.20	54.51	20.37	874.83	99.215
2018	36.19	24.905	14.515	348.45	114.1
2019	27.85	18.436	10.488	238.68	427.28
2020	28.67	18.304	11.012	268.8	436.64
2021	45.0543	27.25	15.63	876.6	640.1
2022	64.3422	31.34	16.63	649.8	1,276
2023	48.995	32.06	17.65	532.2	907.4
2024	32.83	20.86	9.38	402.93	706

Operator's Comments:
Figures for Primary Energy Usage, Water Usage, Hazardous Waste and Non-Hazardous Waste are generated from all onsite activities (Machine Shop, Plating, Assembly, and general office administration) Activities in the Plating department mostly involve Zinc plating not Cadmium (2024 Usage: Cadmium 150Kg; Zinc 790 Kg)

Signed [redacted]....

(Authorised to sign as representative of the operator)

Date.....28.01.2025.....

Operator: AB Connectors Ltd

Permit Reference Number:BV7443IP

Installation: Abercynon Inorganics

Form Number:R1

Reporting of Waste Disposal and Recovery for the year 2024

Waste Description	Disposal		Recovery
	Route	Tonnes	Tonnes
1) Hazardous Wastes			
Effluent Treatment Sludge		34.46	
Solvents		0	
Other Hazardous wastes		25.98	
Total Hazardous wastes		60.44	
2) Non-Hazardous Wastes			
Metal Waste			67.46
Other Non-Hazardous Waste		13.30	24.33
Total Non-Hazardous Waste		13.30	91.79

Trends In Waste Disposal and Recovery			
Year	Parameters		
	Hazardous Waste for Disposal (tonnes)	Hazardous Waste for Recovery (tonnes)	Non-Hardous Waste (Tonnes)
2016	54.48	0.51	15.42
2017	133.85	0.71	15.18
2018	69.69	0.95	22.82
2019	57.01	2.66	11.08
2020	66.74	0.47	16.02
2021	131.29	0.20	19.02
2022	64.98	0	33.3
2023	53.32	0	21.66
2024			
2025			
2026			

Operator's comments :

Other Hazardous waste - 18 tonnes soluble oil disposed of

Signed [redacted]

(Authorised to sign as representative of the operator)

Date 28.01.2025

Operator: AB Connectors Ltd

Permit Reference Number:BV7443IP

Installation: Abercynon Inorganics

Form Number:WU1

Reporting of Water Usage for the year 2024

Water Source	Usage (m3)	Specific Usage (m3/kg)
Mains water (potable)	3130	20.86
Effluent discharge	1407	9.38
Total Water Usage		

Trends in Water Usage

Year	Parameters: Water Usage (m3)	Parameters: Effluent discharge (m3)
2016	5595	3433
2017	8341	3117
2018	4981	2903
2019	4609	2622
2020	4576	2753
2021	4087	2345
2022	3143	1663
2023	3206	1765
2024		
2025		
2026		
2027		

Operator's comments :

Signed [redacted]

(Authorised to sign as representative of the operator)

Date 27.01.2025