

Operator: AB Connectors Ltd

Permit Reference Number:BV7443IP

Installation: Abercynon Inorganics

Form Number:E1

Reporting of Energy Usage for the year 2023

Energy Source	Energy Usage		CO2 Produced (Tonnes)
	Quantity	Primary Energy (MWh)	
Electricity*	MWh	3812.938	1639.56
Natural Gas	MWh	1086.631	406.25
Total		4899.569	2045.81

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			
2024			

*conversion factor for delivered electricity to primary energy =2.4

Operator's comments :

Electricity reduction due to dropping of shifts in Machining area from 5 to 4 days
Gas increase due to faulty controller, unable to turn heating off in Machining area during warmer months

Signature

(Authorised to sign as representative of the operator)

Date: 30.01.2024

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Reporting of performance indicators for the year.....2023.....

Annual Production/Treatment								
Quantity of cadmium processed				100 Kg Cd				
Environmental Performance Indicators (EPI's)								
Parameter	Current Year	Units	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
Primary Energy Usage	4899.569	MWh	2017	49.20	54.51	20.37	874.83	99.215
Water Use	2866	m3	2018	36.19	24.905	14.515	348.45	114.1
Effluent Discharge	1765	m3	2019	27.85	18.436	10.488	238.68	427.28
Hazardous Waste	53,320	kg	2020	28.67	18.304	11.012	268.8	436.64
Non-Hazardous Waste	90,740	kg	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	28.66	17.65	532.2	907.4
			2024					
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 (2023 Usage: Cadmium 100Kg; Zinc 1,170 Kg)								

Signe

(Authorised to sign as representative of the operator)

Date.....30.01.2024.....