

Permit Reference Number: BV4223

Installation: Bynea Organic Chemicals

Operator: Huntsman Corporation UK Ltd

Form Number: E1 Dated 11/06/04

Reporting of Energy Usage for the Year 2023

Energy Source	Energy Usage Quantity (MWh)	Primary Energy (MWh)	CO ₂ Produced (Tonnes)
Electricity*	6180	16053	3213
Natural Gas	95128	95128	17603
TOTAL	101309	111181	20816

Trends in Energy Usage				
Year	Parameter Primary Energy Usage (MWh)	CO ₂ Produced (Tonnes)	Production Volume (Tonnes)	CO ₂ per unit output
2011	123048	22987	16899	1.36
2012	134938	25210	24812	1.02
2013	133723	24923	27122	0.92
2014	145070	27178	32510	0.84
2015	159747	29837	36997	0.81
2016	133179	24946	26716	0.93
2017	161226	30149	34241	0.88
2018	172424	32237	35996	0.90
2019	162500	30380	35273	0.86
2020	138797	25977	30838	0.84
2021	150822	28231	35600	0.79
2022	118400	22185	26400	0.84
2023	111181	20816	17939	1.16

Operator's Comments

Factors as per DEFRA CCL 2012 Recommended Factors: Electricity Generation Efficiency =

38.5 %

CO2 Factors

Gas 0.0514 MT CO2/GJ

Electricity 0.0556 MT CO2/GJ

Annual Production 17939 MT

Notes

1. December 2023 Electricity Consumption Data is Based in Site Meter Reading Estimates.

Signed.....

Date.....