

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 2021

Energy Source	Energy Usage Quantity	Primary Energy	CO ₂ Produced
Electricity*	(MWh) 7043	(MWh) 18293	(Tonnes) 3662
Natural Gas	100107	100107	18524
TOTAL	107150	118400	22185

Trends in Energy Usage				
Year	Parameter	CO ₂ Produced	Production Volume	CO ₂ per unit output
	Primary Energy Usage (MWh)	(Tonnes)	(Tonnes)	
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

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 26400 MT

Notes
1. December 2022 Electricity Consumption Data is Based in Site Meter Reading Estimates.

Signed.....
(authorised to sign as representative of Operator)

Date.....