

TITLE :	Annual Energy Usage		ISSUE NO.	4.0
REF :	RCF 57	AREA:	Site	
RELATED DOCUMENT:	AS4362 – S2/A/2		DATE OF ISSUE:	30.01.11
FILENAME:			PAGE:	1 of 1
			Created on 04/04/2006	



Permit Reference Number	BU2357 / AP 3634 SJ
Installation :	Mostyn, Flintshire

Operator:	Warwick Chemicals
Form Number :	E1 / Annual Energy

Reporting of Energy Usage for the Year	2016
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Energy Source	Energy Usage		CO ₂ Produced (tonnes)
	Quantity	Primary Energy (MWh)	
Electricity ¹	25280050 KwHr	25280.05 MWh	10897
Natural Gas ²	10926650 CuM	109,570 MWh	22230
Gas Oil ³	34600 litres	0.408 MWh	0
TOTAL		134850.45 MWh	33127

Trends in Energy Usage			
Year	Parameter		
	Primary Energy Usage	CO ₂ Produced	CO ₂ per unit output
2012	450,633 GJ	31,689 t	0.933 t
2013	472,231 GJ	32,522 t	0.979 t
2014	493164.4 GJ	34,984 t	1.10 t
2015	482228.2 GJ	33631 t	0.984 t
2016	485461.6 GJ	33127 t	0.917 t

Note 1 Conversion factor for delivered electricity to primary energy = 3.6

Note 2 Conversion factor for m³ natural gas to primary energy = 0.00391

Note 3 Conversion factor for tonnes gas oil to primary energy = 0.0381

Operator's Comments

Signed:	P. J. Bryant
	(Authorised to sign as representative of Warwick Chemicals)

Date:	14/02/17
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