

<b>TITLE :</b>	Annual Energy Usage		<b>ISSUE NO.</b>	4.0
<b>REF :</b>	RCF 57	<b>AREA:</b>	Site	
<b>RELATED DOCUMENT:</b>	AS4362 – S2/A/2		<b>DATE OF ISSUE:</b>	30.01.11
<b>FILENAME:</b>	Last printed 18/02/2020 14:33:00		<b>PAGE:</b>	1 of 1
			Created on 04/04/2006	



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

<b>Operator:</b>	Warwick Chemicals
<b>Form Number :</b>	E1 / Annual Energy

<b>Reporting of Energy Usage for the Year</b>	2019
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Energy Source	Energy Usage		CO <sub>2</sub> Produced (tonnes)
	Quantity	Primary Energy (MWh)	
Electricity <sup>1</sup>	17834529KwHr	64204.30	17,489
Natural Gas <sup>2</sup>	8596520CuM	33612.39	7,688
Gas Oil <sup>3</sup>	17 tonne	0.647	0
<b>TOTAL</b>	-	97817.33	25177

Trends in Energy Usage			
Year	Parameter		
	Primary Energy Usage	CO <sub>2</sub> Produced	CO <sub>2</sub> per unit output
2015	493164 GJ	34,984 t	1.10 t
2016	482228 GJ	33631 t	0.984 t
2017	477666 GJ	33036 t	1.01 t
2018	400610 GJ	27784 t	0.92 t
2019	352142 GJ	25177 t	1.007 t

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

Note 2 Conversion factor for m<sup>3</sup> natural gas to primary energy = 0.00391

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

Operator's Comments	

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

<b>Date:</b>	February 2020
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