

Permit Reference Number: UP3831ES

Installation: TS Resins, Alyn Works

Reporting of Energy Usage for the year.....2015.....

Operator:

TS Resins Ltd

Form Number:

E1

Energy Usage				
Energy Source	Energy Usage			Units
		Quantity	Primary Energy (MWh)	CO ₂ Produced (tonnes)
Electricity*	MWh	1930	5013	832
Steam**	tonnes	2950	2825	461
Gas oil	tonnes	5.872	74.06	19.3
Heavy fuel oil	tonnes	0	0	0
TOTAL		-	7912	1312

*Conversion factor for delivered electricity to primary energy = 0.385

** Steam is supplied from natural gas fired boilers.

Trends In Energy Usage			
Year	Parameter		
	Primary Energy	CO ₂ produced	CO ₂ per unit output
2015	7912	1312	0.061
2014	8168	1325	0.035
2013	8968.0	1573.3	0.041
2012	8484.1	1487.1	0.037
2011	7973.4	1381.2	0.023
2010	9238.4	1617.1	0.025
2009	7447.9	1318.2	0.022
2008	8738.4	1554.9	0.026
2007	9764.9	1554.9	0.021

Operator comments:

Boiler efficiency = 80%

Energy use is dependent on product mix.

Signed 

(authorised to sign as representative of the Operator)

Date:26/01/2016.....