

Permit Reference Number: VP3030BX

Operator: Befesa Salt Slags Ltd

Installation: Whitchurch Befesa Salt Slags

Form Number: R1

Reporting of Waste Disposal and Recovery for the year2016.....

Waste Description	Disposal		Recovered / Recycled
	Route	Tonnes	
Wastes:			
Hazardous waste (oils)	Recovery	3.07	3.07
Non-Hazardous waste	Landfill	162.07	
Non-Hazardous waste (paper)	Recycle	4.68	4.68
Non-Hazardous waste (metal)	Recycle	3.75	3.75
Sewerage Waste	Treatment disposal	77	
Non Hazardous waste (other)	Recycle	568.12	569.12
TOTAL WASTE		821	659.7

Trends in Waste Disposal and Recovery			
Year	Parameter	Hazardous Waste Disposal	Total Waste Recovered / Recycled
2007	Total Waste Disposal	2.2 tonnes	937.2 tonnes
2008		1.65 tonnes	3,793 tonnes
2009	456	1 ton	1 ton
2010	96.61	1.23 tonnes	1.83 tonnes
2011	108.97	6.91 tonnes	12.0 tonnes
2012	56970.175	3.062 tonnes	24,328 tonnes
2013	37674.398	0.808 tonnes	21,808 tonnes
2014	8943.34	1.75 tonnes	26.2 tonnes
2015	1061.20	4 tonnes	929.74 tonnes
2016	821	3.07 tonnes	659.7 tonnes

Operator's comments :
Non Haz waste landfill = general site waste.
No oxide disposal for 2016.

Signed
(authorised to sign as representative of the Operator)

Date: 19 Jan 17

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Form Number: WU1

30 June 2006

Reporting of Water Usage for the year2016.....

Water Source	Usage (m ³ /year)	Specific Usage (m ³ /year)
Mains water	48878	Process
Storm water	50353	Process
TOTAL WATER USAGE	99231	Process

Trends in Water Usage		
Year	Parameter	
	Total Water usage (m ³ /year)	Specific Usage (m ³ /year)/tonne production Aluminium Oxide
2009	26591	0.73
2010	40906	1.09
2011	77919	1.18
2012	79858	1.16
2013	84812	1.29
2014	72143	1.06
2015	76482	1.23
2016	99231	1.54

Operator's comments:

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Installation: Whitchurch Befesa Salt Slags

Form Number: P11

Reporting of Performance Indicators for the year2016.....

<i>Annual Production/Treatment</i>	
Annual Production of Aluminium oxide.	64518.9 tonnes
Annual amount of stored salt slag processed.	72727 tonnes
Amount of Spent Pot Liner processed.	10731.7 tonnes

Environmental Performance Indicators

Parameter	Quantity	Units	Trends				
			Year	Parameter	Total Waste produced (MWh) per tonne of production	Total Energy usage (MWh) per tonne of production	Total water use per tonne of production
Total Waste produced per tonne of production ⁽¹⁾	821	tonnes					
Total Electrical Energy usage (MWh) per tonne of production ⁽¹⁾	19,591	MWH					
Total LPG / Oil Energy usage ⁽¹⁾	32,877	MWH	2011	0.0016	0.11		1.18 m ³
Total Energy usage ⁽¹⁾	52,467	MWH	2012	0.8280	0.10		1.16 m ³
Total water use per tonne of production ⁽¹⁾	1.53	m3	2013	0.576	0.58		1.29 m ³
			2014	0.132	0.56		1.06 m ³
			2015	0.0171	0.11		1.23 m ³
			2016	0.013	0.3		1.53 m ³

Note (1): of Aluminium Oxide.

Operator's comments :

For completeness, in the energy used I have included total LPG / Oil but this is only used for the production of the salt. To be consistent with the previous reporting, only the electricity is used for the total energy per tonne of product, since the primary product produced for reporting is oxide.

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Installation: Whitchurch Befesa Salt Slags

Operator: Befesa Salt Slags Ltd
Form Number: E1

30 June 2006

Reporting of Energy Usage for the year2016.....Trends in Energy Use

Energy Source	Energy Usage		CO ₂ Produced (tonnes)
	Quantity	Primary Energy (MWh)	
Electricity (MWh) *	7,534	19,591	8023
Oil (Litres)	1,008,739	10,648	3022.9
LPG (Litres)	3,130,823	22229	5112.3
TOTAL	4147096	52,468	16,168.2

* Conversion factor for delivered electricity to primary energy = 2.6

Year	Primary Energy usage(MWh)	CO ₂ Produced (Tonnes)
2007	48,993.11	14,929
2008	56,008.86	13,539
2009	44,002.79	10,615
2010	47,779.97	11,512
2011	48,506.93	11,510.17
2012	49,690.57	11,649.384
2013	49,349	10,803.541
2014	49,488	10,579.158
2015	45,585	10,554.677
2016	52,468	16,168.2

Operator's comments

Oil is for hire boiler whilst main boiler under repair – normally boiler runs on LPG

CO2 conversion figures used:

Electricity = 0.42

Oil = 0.283

LPG = 0.229

Signed
(Authorised to sign as representative of the Operator)

Date.....19 Jan 17