

Permit Reference Number: ERP/NP3030BJ

Operator: Enersys Ltd

Facility: Enersys Newport

Form Number: R1

Reporting of Waste Disposal and Recovery for the year 2021

Waste Disposal & Recovery			
Waste Description	Disposal		Recovery
	Route	Tonnes	Tonnes
1) Hazardous Wastes			
Lead Waste Streams	Smelting		2,977
Mixed Hazardous Load	D15 Storage pending D	38.54	
Oil and Water	D09 Physio-chemical treatment	46.00	
Acid	D09 Physio-chemical treatment	100	
Lead Contaminated PPE	R13 Storage pending R	47.71	
Chemical Waste	R03 and R13	33.6	
Total hazardous waste		265.85	2,977
2) Non-Hazardous Wastes			
Plastic Cases	Recycled		27.76
General Waste	Energy from waste		33.31
Cardboard	Recycled		92.34
Wood	Recycled		26.21
Metal	Recycled		30.94
Paper	Energy from waste	2.35	
Polythene	Recycled		13.34
Total non-hazardous waste		2.35	223.9
TOTAL WASTE		268.2	3200.9

Trends in Waste Disposal and Recovery			
Year	Parameter		
	Named Waste	Total Waste	Waste per unit output
2016	ALL	2691.04	0.138T/T
2016	RECOVERED	2527.43	0.129T/T
2016	DISPOSAL	163.61	0.008T/T
2017	ALL	3077.28	0.133T/T
2017	RECOVERED	2929.68	0.127T/T
2017	DISPOSAL	147.6	0.007T/T
2018	ALL	3082.09	0.125T/T
2018	RECOVERED	2824.62	0.115T/T
2018	DISPOSAL	257.47	0.010T/T
2019	ALL	4,751.15	0.182T/T
2019	RECOVERED	3,525.74	0.13T/T
2019	DISPOSAL	1,225.41	0.047T/T
2020	ALL	2,858.9	0.161T/T
2020	RECOVERED	2,423.04	0.137T/T
2020	DISPOSAL	435.86	0.025T/T
2021	ALL	3469.1	0.163T/T
2021	RECOVERED	3200.9	0.151T/T
2021	DISPOSAL	268.2	0.013T/T

Operator's comments :

PRODUCTION OUTPUT IS 21,184.79 TONNES

SignedJeff Bull.....

Date 28/01/2022

(authorised to sign as representative of the Operator)

Facility: Enersys Newport

Form Number: WU1

Reporting of Water Usage for the year 2021

Water Usage		
Water Source	Usage (m³)	Specific Usage (m³/t)
Mains water	35,298	1.67
TOTAL WATER USAGE	35298	1.67

Trends in Water Usage			
Year	Parameter		
	Named Water source	Total Water usage	Water per unit output
2012		68640	3.4 m3/t
2013		60532	2.86 m³/t
2014		47225	1.93 m³/t
2015		37463	1.80m³/t
2016		22460	1.15m³/t
2017		19056	0.82m³/t
2018		24892	1.01m³/t
2019		12230	0.47m³/t
2020		21719	1.22 m³/t
2021		35298	1.67 m³/t

Operator's comments :

PRODUCTION OUTPUT IS 21,184.79 TONNES

SignedJeff Bull.....

Date 28/01/2022

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Permit Reference Number: ERP/NP3030BJ Operator: Enersys Ltd

Facility: Enersys Newport

Form Number: E1

Reporting of Energy Usage for the year 2021

Energy Usage			
Energy Source	Energy Usage		CO ₂ Produced (tonnes)
	Quantity	Primary Energy (MWh)	
Electricity *	24,093 MWh	57,823.2 MWh	9605.19
Natural Gas	15,742.73 MWh	15,742.73 MWh	2992.91
Gas Oil	0	0	0
Heavy Fuel Oil	0	0	0
TOTAL	39835.73	73565.93	12598.1

* Conversion factor for delivered electricity to primary energy = Q x 2.4

Trends in Energy Usage			
Year	Parameter		
	Primary Energy usage	CO ₂ produced	CO ₂ per unit output
2011	79334.97	13533	0.7544T/T
2012	87673.58	14037.67	0.7039T/T
2013	77719.43	13258.59	0.6254T/T
2014	84830.98	14441.93	0.5891T/T
2015	77982.9	13282.0	0.6338T/T
2016	73253.6	12522.5	0.6416T/T
2017	74500.3	12712.6	0.5498T/T
2018	77656.4	13242.7	0.5375T/T
2019	79403.7	13523.6	0.5186T/T
2020	63766.84	10871.4	0.6141T/T
2021	73565.93	12598.1	0.5947T/T

Operator's comments :

ELECTRICITY CO2 PRODUCED = 57823.2 / 6.02 = 9605.19

GAS CO2 PRODUCED = 15742.73 / 5.26 = 2992.91

PRODUCTION TONNAGE = 21,184.79

SignedJeff Bull.....

Date 28/01/2022

(authorised to sign as representative of the Operator)

Permit Reference Number: ERP/NP3030BJ Operator: Enersys Ltd

Facility: Enersys Newport

Form Number: P11

Reporting of Performance Indicators for the year 2021

Annual Production/Treatment	
Production of Battery Products	21,184.79 Tonnes

Environmental Performance Indicators

Performance Indicators			Trends in Environmental Performance					
Parameter	Annual Average	Units						
Energy Use	1880	kWh/tonne	Year	Parameter				
Potable water use	1.67	m3/tonne		Potable water use	Energy Use	Waste Disposed	Waste recovered	Mass lead released
Waste disposed	0.013	T/tonne	2011	3.5 m3/t	2208 kWh/T	205.04 Tonnes	4553.77 Tonnes	161.4Kg
Waste recovered	0.151	T/tonne	2012	3.4 m3/t	2189 kWh/T	179.95 Tonnes	4907.54 Tonnes	228.6Kg
Mass lead released	0.001713	Kg/tonne	2013	2.86m ³ /t	1926 kWh/T	118.72Tonnes	5046.69 Tonnes	176.23Kg
			2014	1.93m ³ /t	1789 kWh/T	37.85Tonnes	3707.63 Tonnes	93.39Kg
			2015	1.80m ³ /t	1962kWh/T	202Tonnes	3078.20Tonnes	151.08Kg
			2016	1.15m ³ /t	2005kWh/T	163Tonnes	2527.43Tonnes	65.68Kg
			2017	0.82m ³ /t	1697kWh/T	147.6Tonnes	2929.68Tonnes	66.17Kg
			2018	1.01m ³ /t	1652kWh/T	257.5Tonnes	2824.60Tonnes	104.1Kg
			2019	0.47m ³ /t	1579kWh/T	1225.41 Tonnes	3525.74Tonnes	95.5Kg
			2020	1.22 m ³ /t	1884kWh/T	435.86 Tonnes	2423.04 Tonnes	79.02Kg
			2021	1.67 m ³ /t	1880kWh/T	268.2 Tonnes	3200.90 Tonnes	36.29Kg
Operator's comments :								
PRODUCTION TONNAGE = 21,184.79								

SignedJeff Bull.....

Date 28/01/2022

(authorised to sign as representative of the Operator)

13/05/2022