



ASD Limited

2023 Streamlined Energy & Carbon Report



Company Registration No: 01370600

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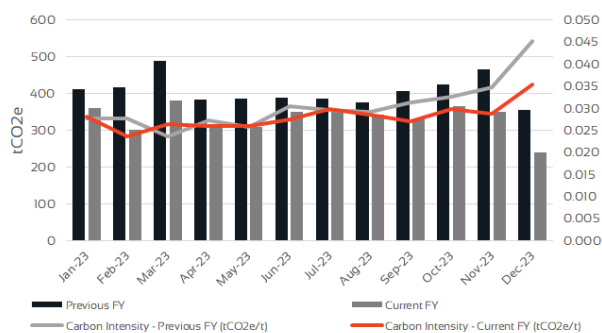


Summary

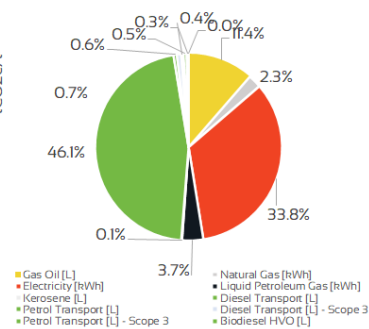
Financial Year	Jan-23 - Dec-23	Emissions (tCO ₂ e) & Change	3,958	-18.2%
Intensity Metric	Tonnes Material Sold (t)	Emissions Intensity tCO ₂ e/t	0.028	-5.8%

Reporting Category	Year Ending: Dec-23	Year Ending: Dec-22	Change	
Energy consumption used to calculate emissions: (rWh)	23,689,040	22,185,465	7%	
Gas Oil [L]	rWh	1,757,205	1,207,615	46%
Natural Gas [rWh]	rWh	506,728	922,570	-45%
Electricity [rWh]	rWh	6,530,945	6,540,980	0%
Liquid Petroleum Gas [rWh]	rWh	681,903	498,034	37%
Kerosene [L]	rWh	22,607	15,486	46%
Diesel Transport [L]	rWh	7,801,558	12,311,665	-37%
Petrol Transport [L]	rWh	105,636	51,448	105%
Diesel Transport [L] - Scope 3	rWh	124,144	198,542	-37%
Petrol Transport [L] - Scope 3	rWh	75,273	38,326	96%
Biodiesel HVO [L]	rWh	6,083,041	400,800	1418%
Emissions from combustion of gas (Scope 1) (tCO ₂ e)	93	168	-45%	
Emissions from combustion of other fuel (Scope 1) (tCO ₂ e)	629	426	48%	
Emissions from combustion of fuel for transport purposes (Scope 1) (tCO ₂ e)	1,871	2,981	-37%	
Emissions from F-Gas Fugitive releases (Scope 1) (tCO ₂ e)	13	1	1310%	
Emissions from purchased electricity (Scope 2, location-based) (tCO ₂ e)	1,352	1,265	7%	
Emissions from combustion of fuel for Business Travel purposes (Scope 3) (tCO ₂ e)	46	57	-19%	
Total gross tCO₂e based on Scopes 1 & 2 above	3,958	4,840	-18%	
Location-based intensity ratio: gross - Scopes 1 & 2 tCO₂e/t	0.028	0.029	-6%	
Emissions from purchased electricity (Scope 2, market-based factor) (tCO ₂ e)	0	0	-	
Emissions generated from natural gas (Scope 1, market-based factor) (tCO ₂ e)	0	0	-	
Emissions after Bio-LPG use (Scope 1, market-based factor) (tCO ₂ e)	629	426	48%	
Total annual net tCO ₂ e based on Scopes 1 & 2 above	2,513	3,407	-26%	
Market-based intensity ratio: net - Scopes 1 & 2 tCO ₂ e/t	0.017	0.021	-15%	

Carbon Emissions - Location-based



Carbon Emissions by Energy Source (RgCO₂e)



Report

Streamline Energy and Carbon Reporting Disclosure

Global energy Scope 1 and 2 GHG emission data for period:

01/01/2023

31/12/2023

	Tonnes CO ₂ e					
	FY2023 location- based	FY2022 location- based	Variance location- based	FY2023 market- based	FY2022 market- based	Variance market- based
Emissions from						
Scope 1 (Fuel combustion in buildings)	93	168	-45%	0	0	0%
Scope 1 (Fuel combustion in vehicles)	1,871	2,981	-37%	1,871	2,981	-37%
Scope 1 (Fuel combustion in mobile and static plant)	629	426	48%	629	426	48%
Scope 1 (Fugitive Emissions)	13	0.9	0%	13	0.9	0%
Scope 1 (Process Gases)	0.12	0.03	0%	0.12	0.03	0%
Scope 2 (Electricity)	1,352	1,265	7%	0	0	-
Total	3,958			2,513		58%

Company's chosen intensity metric: tCO₂e/t

	FY2023 location- based	FY2023 market- based	Variance
Emissions reported per tonne of steel sold	0.028	0.017	58%

Scope 3 Global GHG emission data for period:

01/01/2023

31/12/2023

Emission from	FY2023	FY2022	Variance
Business travel (air, rail and vehicles)	46	57	-19%

Underlying global energy data for period:

01/01/2023

31/12/2023

Energy use (kWh)	FY2023	FY2022	Variance
Electricity	6,530,945	6,540,980	0%
Natural Gas	506,728	922,570	-45%
Mobile and Static Plant Fuel	2,461,715	1,721,135	43%
Transport Fuel	14,189,652	13,000,780	9%
Total	23,689,040	22,185,465	7%

Report Revision

Reporting Category		Year Ending: Dec-22	Year Ending: Dec-22	Variance	Variance	Comments
Energy consumption used to calculate emissions: (kWh)		22,185,465	22,192,036	-0.03%	-6,571	
Stationary Fuels	kWh - Gas Oil	1,207,615	1,207,615	0%	0	
Natural Gas	kWh	922,570	922,570	0%	0	
Electricity	kWh	6,540,980	6,547,551	-0.10%	-6,571	please see"billing" explanation below
Stationary Fuels	kWh - LPG	498,034	498,034	0%	0	
Stationary Fuels	kWh - Kerosene	15,486	15,486	0%	0	
Transport Fuels	kWh - Diesel (S1)	12,311,665	12,311,665	0%	0	
Transport Fuels	kWh - Petrol (S1)	51,448	51,448	0%	0	
Transport Fuels	kWh - Diesel (S3)	198,542	198,542	0%	0	
Transport Fuels	kWh - Petrol (S3)	38,326	38,326	0%	0	
Biofuels	kWh	400,800	400,800	0%	0	
Emissions from combustion of gas (Scope 1) (tCO ₂ e)		168	168	0%	0	
Emissions from combustion of other fuel (Scope 1) (tCO ₂ e)		426	424	0%	1	
Emissions from combustion of fuel for transport purposes (Scope 1) (tCO ₂ e)		2,981	2,982	0%	-1.44	
Emissions from F-Gas Fugitive releases (Scope 1) (kgCO ₂ e)		1	32	-97%	-31.57	Please see"incorrect unit of emissions" explanation below
Emissions from purchased electricity (Scope 2, location-based) (tCO ₂ e)		1,265	1,266	0%	-1.27	Please see comment above
Emissions from combustion of fuel for Business Travel purposes (Scope 3) (kgCO ₂ e)		57	57	0%	0.00	
Total gross tCO₂e based on above		4,840	4,873	-1%	-32.84	

Variance: - a decrease of 6,571 kWh, 32.84 tCO₂e reported for 2022 compared to data published in 2022.

Explanations

Billing

- Monthly invoice data is input into the database, these invoices could be actual, estimated or re-bills.
- Where slight differences occur due to re-billing, any subsequent report run after the report has been issued will show a potential variation to the consumption due to the adjustment, hence differences in the following year's report.

Incorrect unit of emissions

- Last year's report used kgCO₂e instead of tCO₂e for the F-Gas Fugitive emissions, which has been corrected in this report.

Energy Efficiency Action Taken

- Newbridge Site Move (7 new cranes, 1 new saw all new racking) – LED Lighting in office and warehouse
- EV charging Leeds
- EV charging Westok
- EV charging at Newbridge
- New Drill Thurrock
- 2 x Electric Side loaders for Leeds
- 1 x Electric Side loader for Grimsby
- First Aid Room refurb Leeds
- W/House Toilet refurb Leeds
- New overhead crane Exeter
- Introduction of more HVO up to 40% across Group for the year

Data Tables

Month	Energy Consumption													Carbon Emissions	Intensity Metric	Intensity	
	Gas Oil [L]	Natural Gas [kWh]	Electricity [kWh]	Liquid Petroleum Gas [kWh]	Kerosene [L]	Diesel Transport [L]	Petrol Transport [L]	Diesel Transport [L] - Scope 3	Petrol Transport [L] - Scope 3	Biodiesel HVO [L]	F-Gas Fugitive Emissions	Process Gases	Total	Total	Production [Tonnes]	Energy	Carbon
Units	L	kWh	kWh	kWh	L	L	L	L	L	L	kg	kg	kWh	tCO2e	t	kWh/t	tCO2e/t
Jan-22	4,103	133,321	630,895	35,575	0	95,492.1	129.0	1,082.0	76.0	0.0	0.0	6.0	799,790.3	412.8	14,908	53.65	0.028
Feb-22	4,430	118,018	536,318	35,303	0	104,329.2	266.0	1,529.0	197.0	0.0	0.0	0.0	689,639.4	416.8	15,081	45.73	0.028
Mar-22	8,239	131,298	586,093	15,314	0	124,766.9	421.0	1,780.0	436.0	0.0	0.0	2.0	732,704.6	488.9	20,662	35.46	0.024
Apr-22	6,032	101,649	538,597	48,841	1,507	87,683.2	453.0	1,535.0	203.0	0.0	0.0	2.4	689,087.2	383.3	14,072	48.97	0.027
May-22	7,928	83,665	540,791	31,010	0	90,700.4	522.0	1,536.0	395.0	0.0	0.0	2.0	655,466.3	386.3	14,977	43.76	0.026
Jun-22	9,832	74,521	499,888	67,000	0	90,312.7	376.0	1,656.0	482.0	0.0	0.0	4.8	641,408.6	388.9	12,786	50.16	0.030
Jul-22	9,183	17,870	550,370	44,759	0	92,020.5	611.0	1,793.0	215.0	0.0	0.0	0.9	612,998.5	386.4	13,062	46.93	0.030
Aug-22	10,744	19,131	521,377	37,603	0	89,587.1	316.0	1,660.0	292.0	0.0	0.0	1.9	578,110.4	376.7	12,926	44.72	0.029
Sep-22	13,500	27,682	485,813	38,437	0	100,584.3	577.0	1,521.0	565.0	1.3	0.0	5.7	551,930.9	408.1	13,029	42.36	0.031
Oct-22	12,195	29,932	542,058	42,790	0	103,513.8	499.0	1,751.0	467.0	211.0	1.3	2.0	614,780.1	425.3	13,032	47.17	0.033
Nov-22	12,978	57,022	602,262	53,286	0	110,943.8	830.0	2,122.0	401.0	17,997.4	0.0	1.9	712,569.7	466.6	13,409	53.14	0.035
Dec-22	14,495	128,462	506,518	48,117	0	70,777.4	407.0	753.0	299.0	22,148.7	0.0	1.9	683,097.2	357.0	7,895	86.52	0.045
Jan-23	19,145	93,535	601,145	64,167	0	58,172	1,059	1,244	699	34,396	0.0	1.1	758,847	362.3	12,823	59.18	0.028
Feb-23	11,420	-48,239	555,421	51,556	0	58,328	1,106	696	539	38,682	0.0	2.8	558,739	301.8	12,775	43.74	0.024
Mar-23	15,878	79,791	606,261	80,920	1,000	67,213	1,626	1,148	635	49,841	0.0	1.7	766,972	382.0	14,488	52.94	0.026
Apr-23	13,750	52,241	513,283	40,233	0	59,136	447	952	540	46,525	0.0	5.2	605,757	317.0	12,138	49.91	0.026
May-23	10,358	31,394	511,007	53,266	0	60,220	718	1,013	443	51,807	0.0	2.8	595,667	309.6	11,860	50.22	0.026
Jun-23	19,196	20,177	540,879	77,357	0	61,847	1,003	1,509	967	59,158	0.0	52.0	638,414	350.6	12,705	50.25	0.028
Jul-23	14,210	22,900	560,610	52,821	0	67,894	470	734	573	50,401	2.0	0.0	636,330	351.0	11,737	54.22	0.030
Aug-23	13,200	20,194	524,611	49,994	0	70,534	714	971	693	52,913	0.0	0.0	594,799	343.9	12,008	49.53	0.029
Sep-23	13,987	29,203	537,345	23,150	0	61,475	630	1,121	606	53,013	4.6	1.9	589,698	330.7	12,164	48.48	0.027
Oct-23	12,000	48,294	556,803	85,558	1,200	71,108	1,109	888	874	64,687	0.0	2.2	690,655	365.9	12,262	56.32	0.030
Nov-23	13,700	75,533	585,850	41,858	0	63,041	1,411	983	857	68,335	0.0	54.5	703,241	349.9	12,180	57.74	0.029
Dec-23	8,540	81,705	437,731	61,021	0	36,544	809	445	485	42,773	0.0	0.0	580,457	239.4	6,751	85.98	0.035