



ASD Limited

2024 Streamlined Energy & Carbon Report



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Version	Author	Review Date	Summary of Changes
0.1	Adeola Awoyomi	14/02/2025	Report Setup
0.2	Adeola Awoyomi	18/02/2025	Report updates
0.3	Richard Jack Whittingham	18/02/2025	Quality Control
0.4	Mark Earnshaw	18/02/2025	PDF & Issue Draft
1.0	Mark Earnshaw	03/03/2025	Insert Energy Actions, PDF & Issue

Disclaimer:

Whilst reasonable steps have been taken to ensure that the information contained within this report is correct, you should be aware that there may be incomplete data, and that such data is open to interpretation and typographical error and that the Consultant is not responsible or liable for the accuracy or completeness of this data.

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1. Executive Summary

The Streamlined Energy and Carbon Reporting (SECR) scheme is a mandatory energy and carbon reporting framework for large undertakings (and their corporate groups) that is applicable throughout the UK.

If you are a quoted, Large unquoted, or Large Limited Liability Partnership then you need to report within SECR. The definition of Large is the same as for the Energy Saving Opportunity Scheme (ESOS) and dictated by the Companies Act 2006. You are eligible if you meet two or more of the following criteria: -

- Turnover £36m+
- Balance sheet £18m+
- Employees 250+

Under SECR, qualifying companies are required to include energy use and carbon emission data in their annual financial reports, as well as details of energy efficiency actions taken. The scheme aims to increase awareness of energy costs, encourage energy efficiency measures, and reduce overall carbon emissions across the UK.

ASD Limited complies with the Companies Act 2006 (Strategic Report and Director's Report) Regulations 2013 and the Companies (Director's Report) and Limited Liability Partnerships (Energy and Carbon Report) Regulations 2018 and our approach to reporting is based on the GHG Protocol Corporate Accounting and Reporting Standard in line with the guidance on SECR.

Our reporting period is for the financial year 1st January 2024 to 31st December 2024, reporting all material GHG emissions using "Tonnes of CO₂ equivalent" (tCO₂e) as the unit of measurement and reporting energy use in kWh. We have included the energy and emissions for the buildings owned and operated (i.e. those within the financial control boundary).

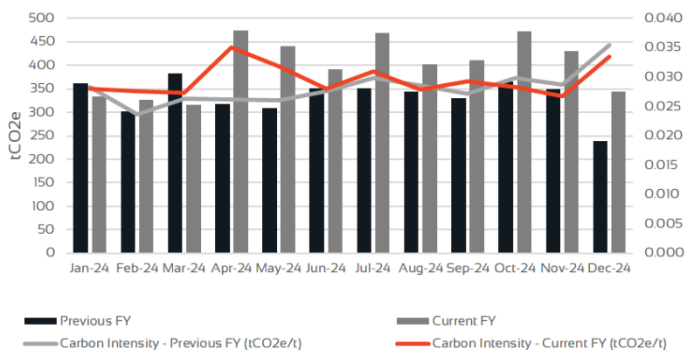
The results are presented as Location-based emissions and Market-based emissions, where applicable. Location-based are mandatory and reflect the average emissions intensity of grid supplies (using grid average emissions factors) and Market-based are voluntary and reflect emissions from energy where companies have a contractual agreement to procure green energy.

FY2024 Summary	Totals
Scope 1 (tCO ₂ e)	3,476
Scope 2 (tCO ₂ e)	1,295
Scope 3 (tCO ₂ e)	37
Total Emissions (tCO₂e)	4,771
Intensity Metric (tCO ₂ e/t)	0.03
Energy Consumption (kWh)	23,313,658

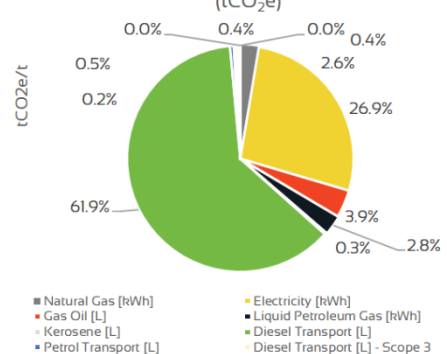
Financial Year	Jan-24 - Dec-24	Emissions (tCO ₂ e) & Change	4,771	20.5%
Intensity Metric	Tonnes Material Sold (t)	Emissions Intensity tCO ₂ e/t	0.029	6.2%

Reporting Category	Year Ending: Dec-24	Year Ending: Dec-23	Change
Energy consumption used to calculate emissions: (rWh)	23,313,658	23,598,534	-1%
Natural Gas [rWh]	690,674	506,728	36%
Electricity [rWh]	6,255,416	6,530,945	-4%
Gas Oil [L]	739,501	1,752,740	-58%
Liquid Petroleum Gas [rWh]	634,450	681,903	-7%
Kerosene [L]	52,252	22,662	131%
Diesel Transport [L]	12,456,308	7,727,107	61%
Petrol Transport [L]	115,217	99,527	16%
Diesel Transport [L] - Scope 3	76,922	122,960	-37%
Petrol Transport [L] - Scope 3	84,256	70,921	19%
Biodiesel HVO [L]	2,208,662	6,083,041	-64%
Emissions from combustion of gas (Scope 1) (tCO ₂ e)	126	93	36%
Emissions from combustion of other fuel (Scope 1) (tCO ₂ e)	347	629	-45%
Emissions from combustion of fuel for transport purposes (Scope 1) (tCO ₂ e)	3,003	1,871	61%
Emissions from F-Gas Fugitive releases (Scope 1) (tCO ₂ e)	0.067	13	-99%
Emissions from purchased electricity (Scope 2, location-based) (tCO ₂ e)	1,295	1,352	-4%
Emissions from combustion of fuel for Business Travel purposes (Scope 3) (tCO ₂ e)	37	46	-20%
Total gross tCO₂e based on Scopes 1 & 2 above	4,771	3,958	21%
Location-based intensity ratio: gross - Scopes 1 & 2 tCO₂e/t	0.03	0.03	6%
Emissions from purchased electricity (Scope 2, market-based factor) (tCO ₂ e)	91	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)	347	629	-45%
Total annual net tCO₂e based on Scopes 1 & 2 above	3,440	2,513	37%
Market-based intensity ratio: net - Scopes 1 & 2 tCO₂e/t	0.02	0.02	21%

Carbon Emissions - Location-based



Carbon Emissions by Energy Source (tCO₂e)



2. Report

Streamline Energy and Carbon Reporting Disclosure

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

01/01/2024

31/12/2024

	tonnes CO ₂ e					
	FY2024 location- based	FY2023 location- based	Variance location- based	FY2024 market- based	FY2023 market- based	Variance market- based
Emissions from						
Scope 1 (Fuel combustion in buildings)	126	93	36%	0	0	0%
Scope 1 (Fuel combustion in vehicles)	3,003	1,871	61%	3,003	1,871	61%
Scope 1 (Fuel combustion in mobile and static plant)	347	629	-45%	347	629	-45%
Scope 1 (Fugitive Emissions)	0	13	0%	0	13	-100%
Scope 1 (Process Gases)	0.07	0.12	0%	0.07	0.12	-46%
Scope 2 (Electricity)	1,295	1,352	-4%	91	0	-
Total	4,771			3,440		39%

Company's chosen intensity metric: tCO₂e/t

	FY2024 location- based	FY2024 market- based	Variance
Emissions reported per tonne of steel sold	0.03	0.02	39%

Scope 3 Global GHG emission data for period:

01/01/2024

31/12/2024

Emission from	FY2024	FY2023	Variance
Business travel (air, rail and vehicles)	36.94	45.99	-20%

Underlying global energy data for period:

01/01/2024

31/12/2024

Energy use (kWh)	FY2024	FY2023	Variance
Electricity	6,255,416	6,530,945	-4%
Natural Gas	690,674	506,728	36%
Mobile and Static Plant Fuel	1,426,203	2,457,305	-42%
Transport Fuel	14,941,365	14,103,556	6%
Total	23,313,658	23,598,534	-1%

Renewable Energy Percentage	FY2024	FY2023	Variance
Electricity	93%	100%	-7%
Natural Gas	100%	100%	0%

3. Previous FY Report Review

Summary

There is an overall decrease of 90,506 kWh, reported for FY2023 in this report compared to the results reported last year.

Variations

Reporting Category	FY24 Report		FY23 Report		Variance	Variance	Comments
	Year Ending: Dec-23	Year Ending: Dec-23	Year Ending: Dec-23	Year Ending: Dec-23			
Energy consumption used to calculate emissions: (kWh)	23,598,534	23,689,040			-0.38%	-90506	
Natural Gas	hWh	506,728	506,728		0.00%	0	
Electricity	hWh	6,530,945	6,530,945		0.00%	0	
Liquid Fuels	hWh - Gas Oil	1,752,740	1,757,205		-0.25%	-4465	Conversion factor update
Gaseous Fuels	hWh - LPG	681,903	681,903		0.00%	0	
Stationary Fuels	hWh - Kerosene	22,662	22,607		0.24%	55	Conversion factor update
Transport Fuels	hWh - Diesel (S1)	7,727,107	7,801,558		-0.95%	-74451	Conversion factor update
Transport Fuels	hWh - Petrol (S1)	99,527	105,636		-5.78%	-6108	Conversion factor update
Transport Fuels	hWh - Diesel (S3)	122,960	124,144		-0.95%	-1185	Conversion factor update
Transport Fuels	hWh - Petrol (S3)	70,921	75,273		-5.78%	-4353	Conversion factor update
Biofuels	hWh - HVO	6,083,041	6,083,041		0.00%	0	
Emissions from combustion of gas (Scope 1) (tCO2e)		93	93		0.00%	0	
Emissions from combustion of other fuel (Scope 1) (tCO2e)		629	629		0.00%	0	
Emissions from combustion of fuel for transport purposes (Scope 1) (tCO2e)		1,871	1,871		0.00%	0	
Emissions from purchased electricity (Scope 2, location-based) (tCO2e)		1,352	1,352		0.00%	0	
Emissions from combustion of fuel for Business Travel purposes (Scope 3) (tCO2e)		46	46		0.00%	0	
Total gross tCO2e based on above		3,991	3,991		0.00%	0	
Intensity ratio: gross tCO2e/t		0.028	0.028		0.00%	0	

Explanations

Conversion factor updates

- The volumes of calculated transport fuel, Gas Oil and Kerosene for FY2023 are the same in this year's report as in last year's report, however, the conversion factors were incorrect last year. The report used the previous year's conversion factors, in red in the table below as opposed to the conversion factors in green, which have been applied in this report.

Date	Gas Oil [L]	Kerosene [L]	Diesel Transport [L]	Diesel Transport [L] -	Petrol Transport [L] -
Jan-19	10.742	10.295	10.597	10.597	9.436
Jan-20	10.742	10.299	10.583	10.583	9.459
Jan-21	10.742	10.294	10.607	10.607	9.545
Jan-22	10.625	10.276	10.607	10.607	9.515
Jan-23	10.598	10.301	10.506	10.506	8.965
Jan-24	10.742	10.294	10.511	10.511	9.468

Data Accruals

- The database will automatically accrue missing data if no consumption has been entered whether from invoice or manual input either due to no invoice or invoice does not cover the full calendar month.
- The accrued consumption is based on the last entry on a daily pro-rata basis and will continue to accrue until a new entry is input.
- The percentage of accrued data within the report is shown in the setup instructions tab of the backing data and ideally needs to be as low as possible. Checking this has been added to the QA process as of September 2021 with all anomalies investigated.

4. Methodology

- The methodology used to calculate total energy consumption and carbon emissions has been invoice data for the financial years stated. Where data was unavailable, estimates were calculated using historical profiles and details kept in the client's evidence pack.
- Energy and fuel consumption has been converted to carbon (tCO₂e) using DEFRA-published conversion factors.
- New DEFRA conversion tables are issued in June and cover January to December, our financial year covers a single data set, and has therefore used the annually published factors covering 2024.
- Transport data in FY2024 was reported as mileage and converted into litres of fuel using the DEFRA tables to calculate average miles per litre and this conversion was applied.
- Due to updated conversion factors, there has been a decrease of 90,506 kWh reported for 2023 in this report compared to the energy and emissions reported last year for the same reporting period.
- We have selected the most appropriate intensity metric in line with the primary drivers of energy consumption, where possible. For this report, we have selected Tonnes of Metal Sold (t) as the most appropriate to achieve a benchmark.

5. Energy Efficient Action Taken

- Installed roof-mounted solar PV at Thurrock.
- Upgraded compressor at OCS (Kidderminster).
- Removed diesel generator at Thurrock.
- Added EV charging points at multiple sites.

6. Data Tables

Month	Energy Consumption													Carbon Emissions	Intensity Metric	Intensity	
	Natural Gas [rWh]	Electricity [rWh]	Gas Oil [L]	Liquid Petroleum Gas [rWh]	Kerosene [L]	Diesel Transport [L]	Petrol Transport [L]	Diesel Transport [L] - Scope 3	Petrol Transport [L] - Scope 3	Biodiesel HVO [L]	Process Gases	F-Gas Fugitive Emissions	Total	Total	Production [Tonnes]	Energy	Carbon
	rWh	rWh	L	rWh	L	L	L	L	L	L	kg	kg	rWh	tCO2e	t	kWh/t	tCO2e/t
Jan-23	93,535	601,145	19,145	64,167	0	58,172	1,059	1,244	699	34,396	11	0	758,847	362.3	12,823	59.18	0.028
Feb-23	48,239	555,421	11,420	51,556	0	58,328	1,106	696	539	38,682	28	0	558,739	301.8	12,775	43.74	0.024
Mar-23	79,791	606,261	15,878	80,920	1,000	67,213	1,626	1,148	635	49,841	17	0	766,972	382.0	14,488	52.94	0.026
Apr-23	52,241	513,283	13,750	40,233	0	59,136	447	952	540	46,525	52	0	605,757	317.0	12,138	49.91	0.026
May-23	31,394	511,007	10,358	53,266	0	60,220	718	1,013	443	51,807	28	0	595,667	309.6	11,860	50.22	0.026
Jun-23	20,177	540,879	19,196	77,357	0	61,847	1,003	1,509	967	59,158	52.0	0	638,414	350.6	12,705	50.25	0.028
Jul-23	22,900	560,610	14,210	52,821	0	67,894	470	734	573	50,401	0.0	2	636,330	351.0	11,737	54.22	0.030
Aug-23	20,194	524,611	13,200	49,994	0	70,534	714	971	693	52,913	0.0	0	594,799	343.9	12,008	49.53	0.029
Sep-23	29,203	537,345	13,987	23,150	0	61,475	630	1,121	606	53,013	1.9	5	589,698	330.7	12,164	48.48	0.027
Oct-23	48,294	556,803	13,000	85,558	1,200	71,108	1,109	888	874	64,687	2.2	0	690,655	365.9	12,262	56.32	0.030
Nov-23	75,533	585,850	13,700	41,858	0	63,041	1,411	983	857	68,335	54.5	0	703,241	349.9	12,180	57.74	0.029
Dec-23	81,705	437,731	8,540	61,021	0	36,544	809	445	485	42,773	0.0	0	580,457	239.4	6,751	85.98	0.035
Jan-24	97,571	603,724	12,516	53,526	1,601	52,343	1,409	551	827	78,320	51.1	0	754,820	333.3	11,887	63.50	0.028
Feb-24	72,253	572,200	13,183	48,771	0	55,356	1,149	721	657	79,388	0.4	0	693,224	326.0	11,816	58.67	0.028
Mar-24	69,969	571,121	6,501	41,725	0	58,876	1,565	763	887	64,693	0.0	0	682,815	315.2	11,521	59.27	0.027
Apr-24	79,616	527,777	5,687	54,413	0	125,955	937	516	1,237	0	4.2	0	661,806	473.5	13,534	48.90	0.035
May-24	38,278	520,994	5,301	25,907	0	119,720	1,024	620	646	0	2.8	0	585,179	440.9	13,854	42.24	0.032
Jun-24	30,874	481,880	3,250	66,080	0	102,503	1,224	650	490	0	1.3	0	578,834	391.3	13,994	41.36	0.028
Jul-24	24,496	498,383	6,808	111,886	0	124,699	1,028	487	974	0	0.4	0	634,765	469.2	15,166	41.85	0.031
Aug-24	16,373	477,162	3,604	18,997	3,475	108,964	753	472	460	0	0.0	0	512,531	402.1	14,421	35.54	0.028
Sep-24	25,471	477,142	3,500	15,000	0	115,521	911	339	422	0	4.0	0	517,613	410.2	14,040	36.87	0.029
Oct-24	57,626	550,441	1,000	77,483	0	128,017	967	923	779	0	0.0	0	685,549	471.5	16,704	41.04	0.028
Nov-24	94,851	542,003	992	70,486	0	110,244	1,202	741	947	0	24	0	707,340	430.8	16,121	43.88	0.027
Dec-24	83,296	432,591	6,500	50,177	0	82,833	0	535	573	0	0.0	0	566,064	344.2	10,254	55.20	0.034