



Streamlined Energy and Carbon Report

Prepared for
ICS Cool Energy Ltd
Financial Year 2023



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Document Control

Prepared for

ICS Cool Energy Ltd

Document reference

SECR Compliance Report

Project reference

Sustainable energy First/ICS Cool Energy Ltd /SECR/2023

Date

04th March 2024

Document version

1.0

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Reviewed by

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Supporting information location

sefirst - Y:\ ICS Cool Energy Ltd \Smartservices\Smartcompliance\SECR\SECR_23

Revision	Date	Author	Details
001	04/03/2024	Vidhya	SECR Compliance Summary- Initial draft Report
002	12/03/2024	Vidhya	Employee vehicle business mileage and Refrigerant data included for all years

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Report overview

ICS Cool Energy Ltd are required to report under the Streamlined Energy and Carbon Reporting (SECR) framework, under the Companies (Directors' Report) and Limited Liability Partnerships (Energy and Carbon Report) Regulations 2018. This report covers the SECR requirement of ICS Cool Energy Ltd. The tabulated energy use and carbon emissions can be found on the final page of this document. This covers the 12 months 1 January 2023 to 31 December 2023 reflecting the financial year of ICS Cool Energy Ltd.

ICS Cool Energy Ltd have reviewed and signed the final page of this document, to confirm agreement with report inclusions and any exclusions where relevant.

SECR overview

The SECR framework is a mandatory UK-wide energy and carbon reporting scheme that seeks to improve transparency and help reduce UK carbon emissions associated with business and industry. Measurement and public disclosure of emissions can lead to an increased awareness of energy cost and carbon emissions and in turn improve the visibility of risks and opportunities through improvements to energy efficiency. Organisations are encouraged that all information is aligned to financial years, to aid comparability and consistency of information across reports and organisations.

Qualification criteria

SECR affects:

- Quoted companies
- Large unquoted companies
- Large Limited Liability Partnerships (LLPs)

Under changes made by the 2018 Regulations, unquoted companies incorporated in the UK which are required to prepare a Directors' Report under Part 15 of the Companies Act 2006, and which are "large" (see below) are required to prepare and file energy and carbon information in their Directors' Reports. This applies to both registered companies and to unregistered companies which are required to prepare company accounts and reports. Under the 2018 Regulations, LLPs which are "large" are also required to prepare and file energy and carbon information in their accounts and reports (in an 'Energy and Carbon Report').

The definition of "large" is the same as applies in the existing framework for annual accounts and reports, based on sections 465 and 466 of the Companies Act 2006. The qualifying conditions are met by a company or LLP in a year in which it satisfies two or more of the following requirements:

- Turnover £36 million or more
- Balance sheet total £18 million or more
- Number of employees 250 or more.

SECR framework and carbon reporting benefits

- Increase awareness of energy costs within large and quoted organisations;
- Enhanced visibility to key decision makers;
- Create more of a level playing field among large organisations, in terms of energy & emissions reporting;
- Reduce administrative burdens associated with energy and emissions reporting;
- Provide data to inform the adoption of efficiency measures to reduce impact on climate change;
- Provide greater transparency for key stakeholders, on energy efficiency and low carbon readiness.

As a first step towards managing and reducing GHG emissions, an organisation needs to understand which business activities generate GHG emissions and the magnitude of the generated emissions. A SECR/ carbon footprint report provides a quantitative assessment of the GHG emissions arising from an organisation's business activities. Once a carbon footprint has been created, an organisation can begin identifying areas with the greatest potential for emission reductions.

Operational control

An organisation has operational control over an operation if the former or one of its subsidiaries has the full authority to introduce and implement its operating policies at the operation.

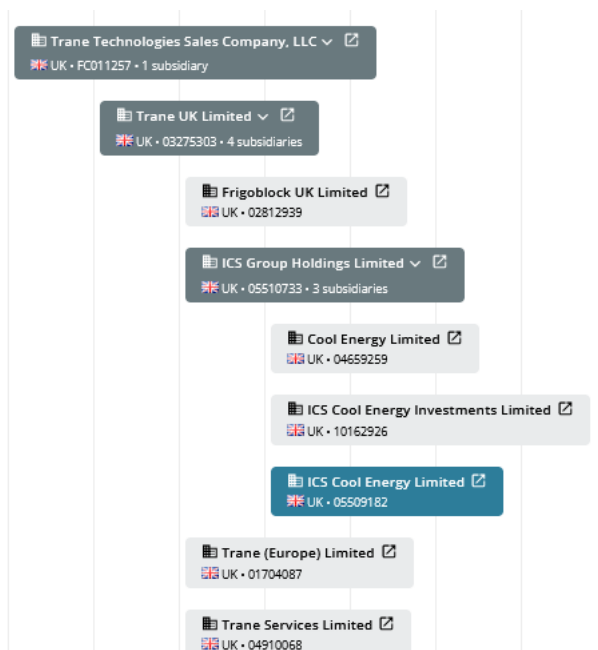
Financial control

An organisation has financial control over the operation if the former directly or indirectly has the ability to direct the financial and operating policies of the latter with a view to gaining economic benefits from the operation's activities.

Organisational structure

ICS Cool Energy Limited is an active company incorporated on 14 July 2005 with the registered office located in Southampton, Hampshire. ICS Cool Energy Limited has been running for 18 years. There are currently 3 active directors according to the latest confirmation statement submitted on 14th July 2023.

Group Structure of the Company



Emissions sources included

This report includes UK energy use, and the associated GHG emissions, that relate to:

- Activities for which the ICS Cool Energy Ltd is responsible involving the combustion of gas, or consumption of fuel for the purposes of transport; and
- The purchase of electricity by the company for its own use.

Emissions sources excluded

- None of the mandatory emissions has been excluded in this report.

Methodology

The footprint is calculated in accordance with the Greenhouse Gas (GHG) Protocol and Environmental Reporting Guidelines: Including streamlined energy and carbon reporting guidance.

Emissions factors applied

A wide range of published carbon emission factors are publicly available. Latest DEFRA/BEIS emission factors 2023 have been used for all emission sources as this provides the most comprehensive list of factors available. They allow an activity to be converted into carbon dioxide equivalent (CO₂e).



Energy Consumption (kWh)				
	Current Year 2023	Previous Year *2022	SECR Baseline *2019	Variance %
Scope 1 Energy Consumption	4,320,856	3,251,756	3,732,823	16%
Scope 2 Energy Consumption	514,481	581,137	484,891	6%
Scope 3 Energy Consumption	11,617	38,960	13,170	-12%
Total energy Consumption	4,846,955	3,871,853	4,230,884	15%

Scope 1 Energy Consumption

Scope 2 Energy Consumption

Scope 3 Energy Consumption

Total energy Consumption



Carbon Emissions (tCO ₂ e)				
	Current Year 2023	Previous Year *2022	SECR Baseline *2019	Variance %
Scope 1 Emissions	2,736	2,657	4,060	-33%
Scope 2 - Location Based (LB)	107	112	124	-14%
Scope 2 - Market Based (MB)	102	125	109	-7%
Scope 3 Emissions	3	10	3	-9%
Total Carbon - LB (tCO₂)	2,845	2,779	4,187	-32%
Total Carbon - MB (tCO₂)	2,840	2,792	4,172	-32%

Scope 1 Emissions

Scope 2 - Location Based (LB)

Scope 2 - Market Based (MB)

Scope 3 Emissions

Total Carbon - LB (tCO₂)

Total Carbon - MB (tCO₂)



Intensity Ratio				
	Current Year 2023	Previous Year *2022	SECR Baseline *2019	Variance %
(tCO ₂ e/£m Turnover)	47.3	50.46	71.61	-34%

(tCO₂e/£m Turnover)

(Includes Scope 1, 2 and 3 Emissions)

* Restated Energy and Carbon figures for 2022 and 2019, now includes refrigerant gas usage and employee vehicles business mileage figures.



BASE YEAR

The base year chosen for all future SECR comparisons is the Financial Year 2019 (Jan-Dec). This is the most representative year due to COVID-19 impact on energy use and associated emissions.

2023 total emissions performance (tCO2e)

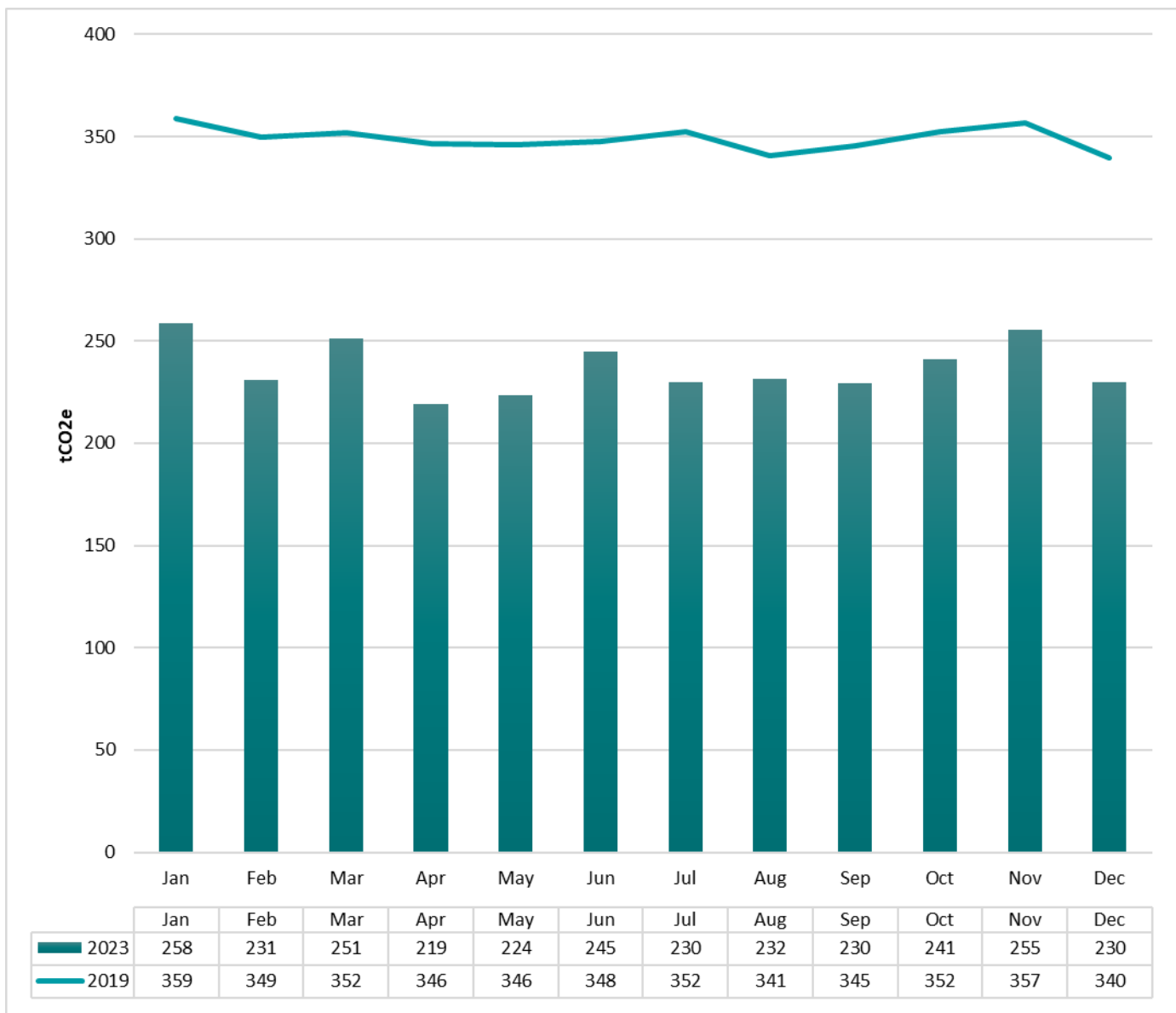
This section of the report details ICS Cool Energy Ltd’s Scope 1, 2 and 3 emission performance. The carbon emission figures for 2023 have been derived using the DEFRA/BEIS GHG emission factors for 2023.

Sustainable Energy First have collated consumption data from Jan-23 to Dec-23. Emissions are expressed in tCO2e in order to provide a standard unit for reporting of all emissions sources.

The graph below displays the monthly emissions from Jan-23 to Dec-23 which were 2,845 tCO2e.

The emission were 32% lower compared to baseline year 2019 emissions.

2023 vs 2019 emissions (tCO2e)



Energy performance – Electricity (kWh)

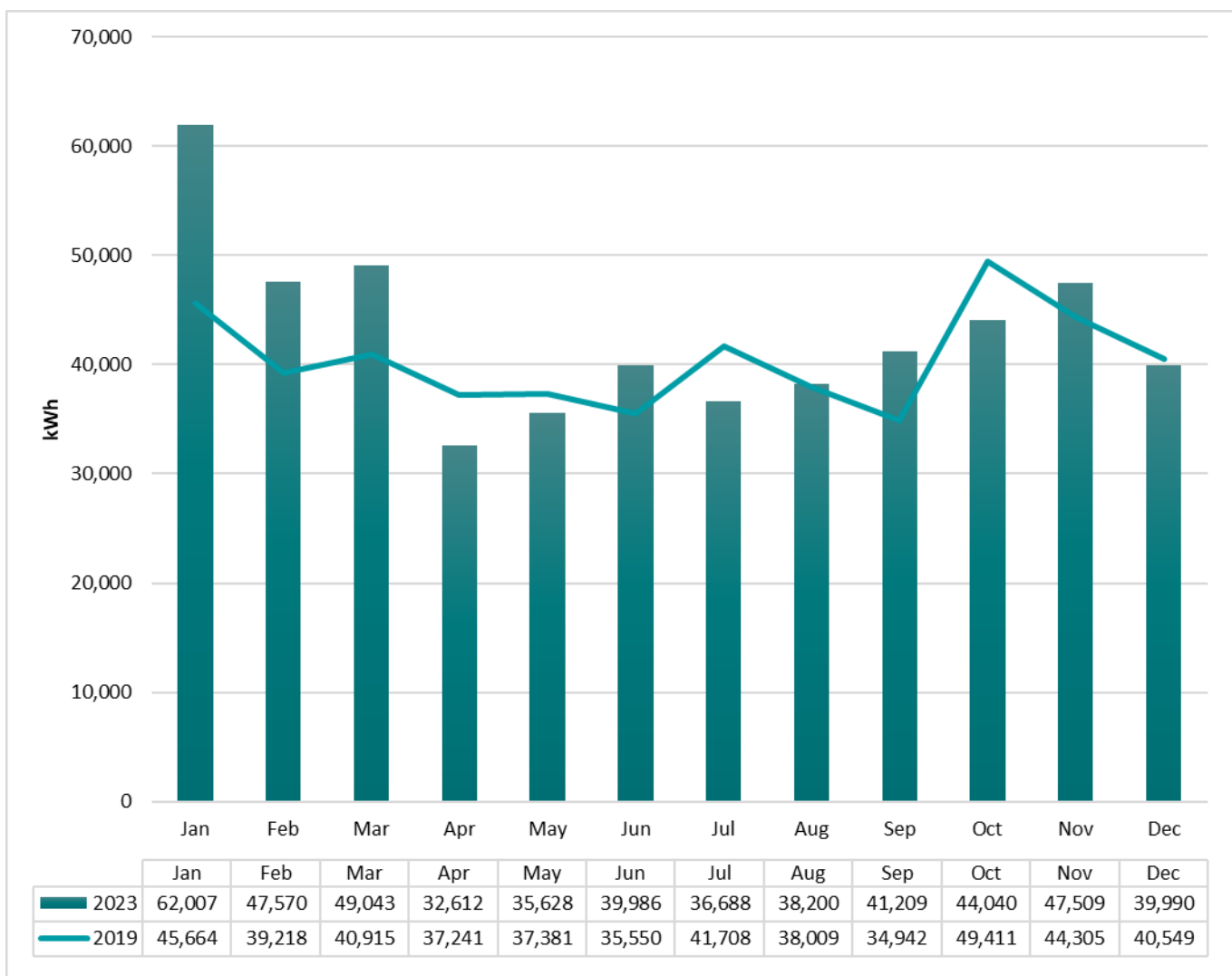
This section of the report details ICS Cool Energy Ltd’s Electricity performance.

Sustainable Energy First have collated consumption data from Jan-23 to Dec-23.

The graph below displays the monthly Electricity consumption from Jan-23 to Dec-23 which were 514,481 kWh.

The consumption is 6% higher compared to baseline year 2019 consumption.

2023 vs 2019 (kWh)



This section of the report details ICS Cool Energy Ltd’s Natural Gas consumption.

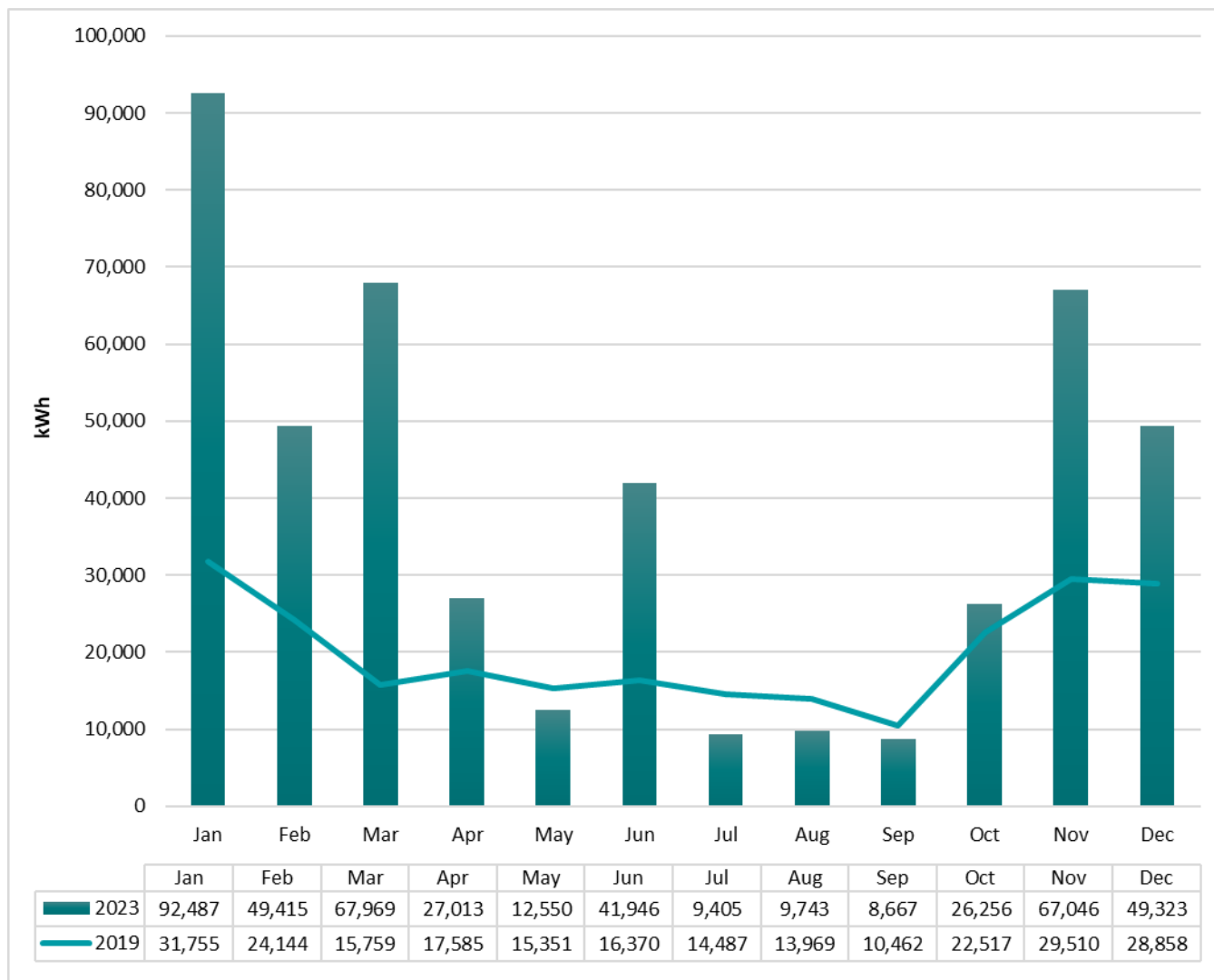
Sustainable Energy First have collated consumption data from Jan-23 to Dec-23.

The graph below displays the monthly Gas consumption from Jan-23 to Dec-23 which were 461,821 kWh. Out of the total consumption 37,440 kwh is estimated based on previous year kwh as per boiler rating, this was due to unavailability of invoices for Bradford Site from British gas.

Hence, 8% of the overall gas consumption is based on estimated value.

The consumption is 92 % higher compared to baseline year 2019 consumption.

2023 vs 2019 (kWh)



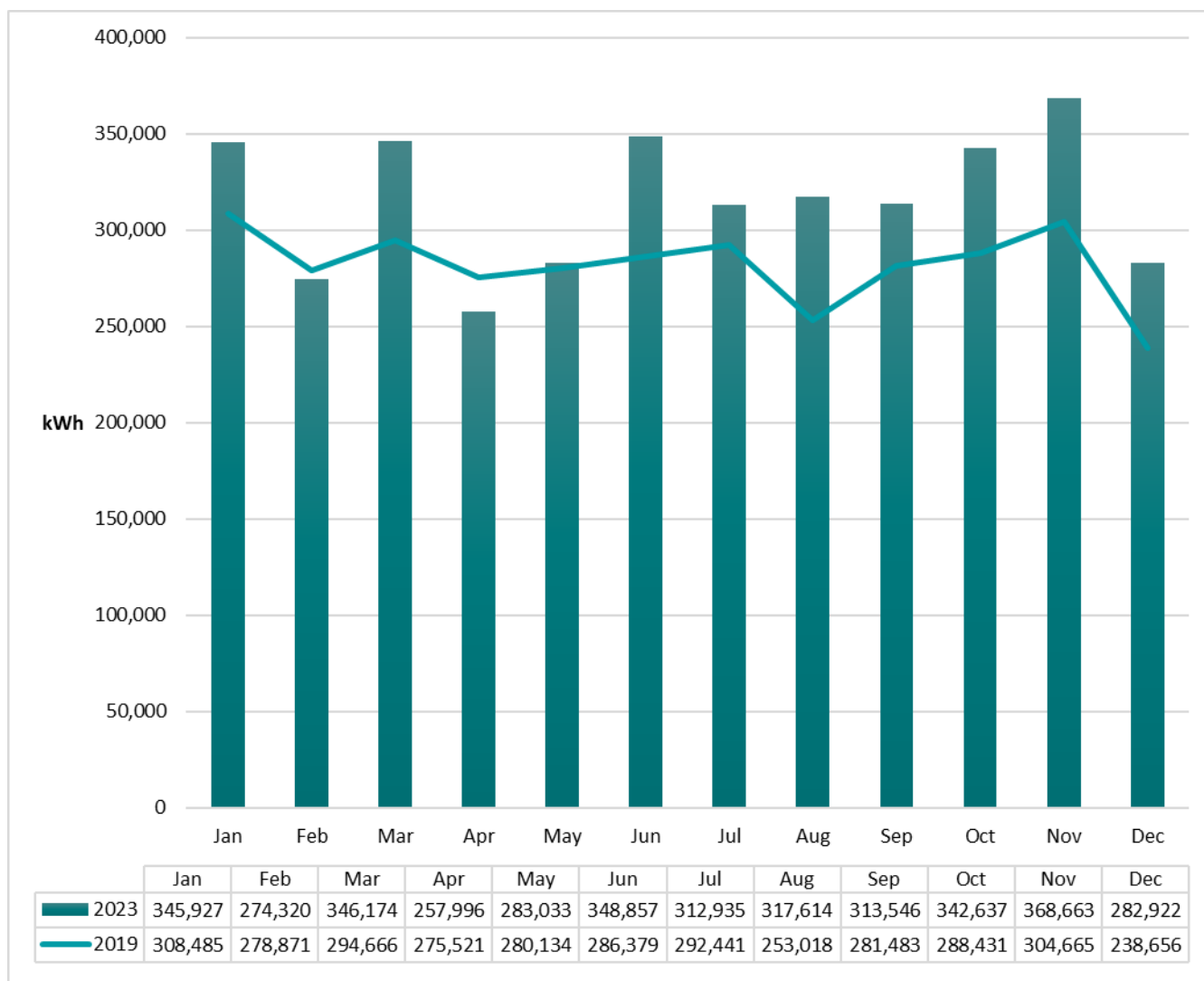
This section of the report details ICS Cool Energy Ltd’s Direct Transport consumption. This section of the report details energy consumption from Transportation of vehicles directly owned or control by the reporting organisation.

Sustainable Energy First have collated consumption data from Jan-23 to Dec-23.

The graph below displays the monthly Direct transportation consumption from Jan-23 to Dec-23 which were 3,794,626 kWh. SECR guidelines requires companies to express all their fuel consumption in kWh. The data for this were received as fuel purchase in Litres , DEFRA/BEIS 2023 conversion factors has been used to calculate kwh to convert from Litres.

The consumption is 12% higher compared to baseline year 2019 consumption.

2023 vs 2019 (kWh)



Scope 1 – Emission Performance

This section of the report details ICS Cool Energy Ltd’s scope 1 Emissions. This includes emissions from Natural Gas, Direct transport (Diesel), Fuel Purchased in Litres (Propane) including purchase of refrigerant gas (R410A, R407C,R449A)

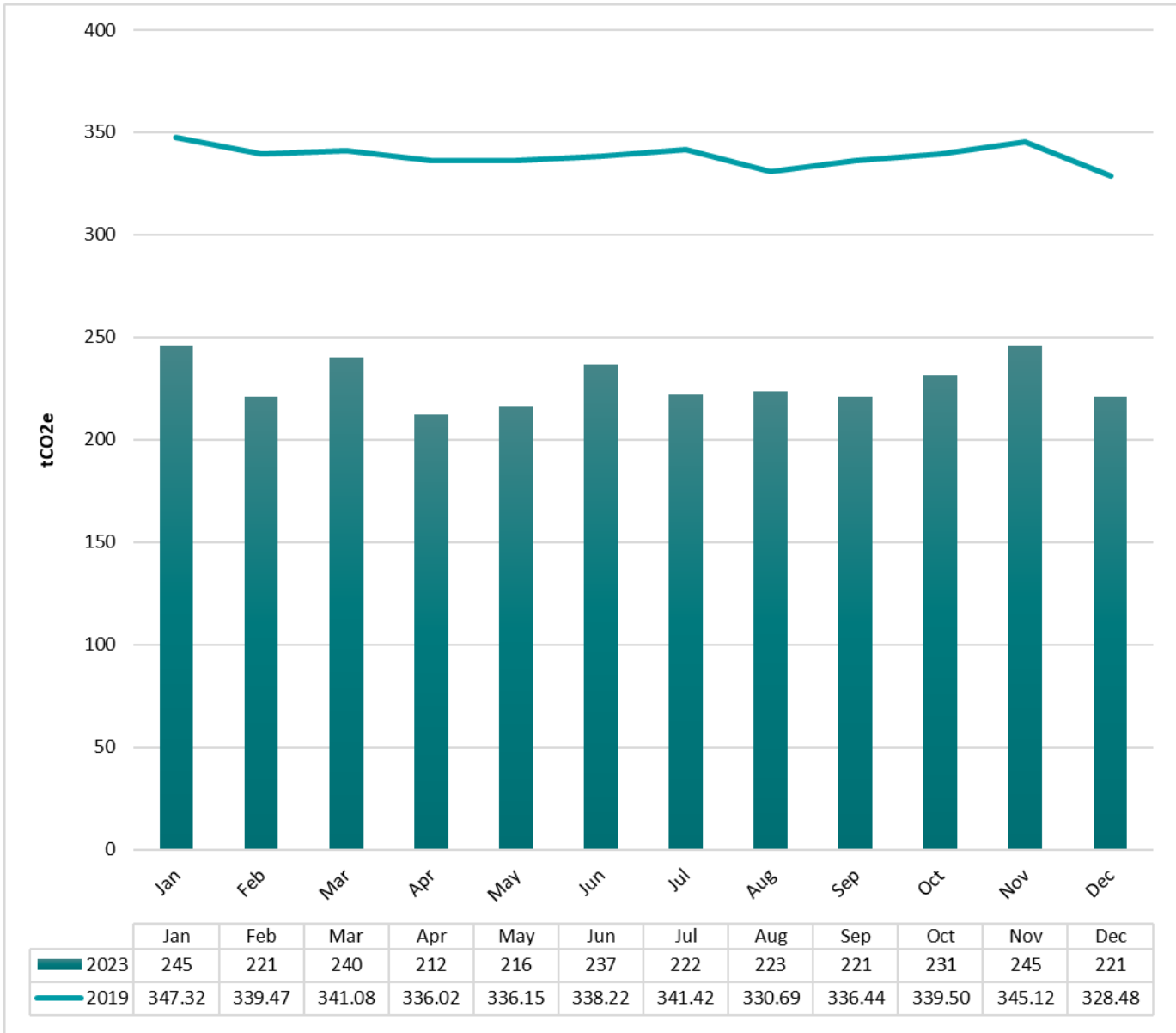
Scope 1 emissions are direct GHG emissions that occur from sources directly owned or controlled by reporting organisation.

Sustainable Energy First have collated emission data from Jan-23 to Dec-23.

The graph below displays the monthly Scope 1 emissions from Jan-23 to Dec-23 which were 2,736 tCO₂e.

The Scope 1 Emission is 33% lower compared to baseline year 2019.

2023 vs 2019 (tCO₂e)



Scope 2 – Emission Performance

This section of the report details ICS Cool Energy Ltd’s scope 2 Emissions. This includes emissions from purchase of Electricity.

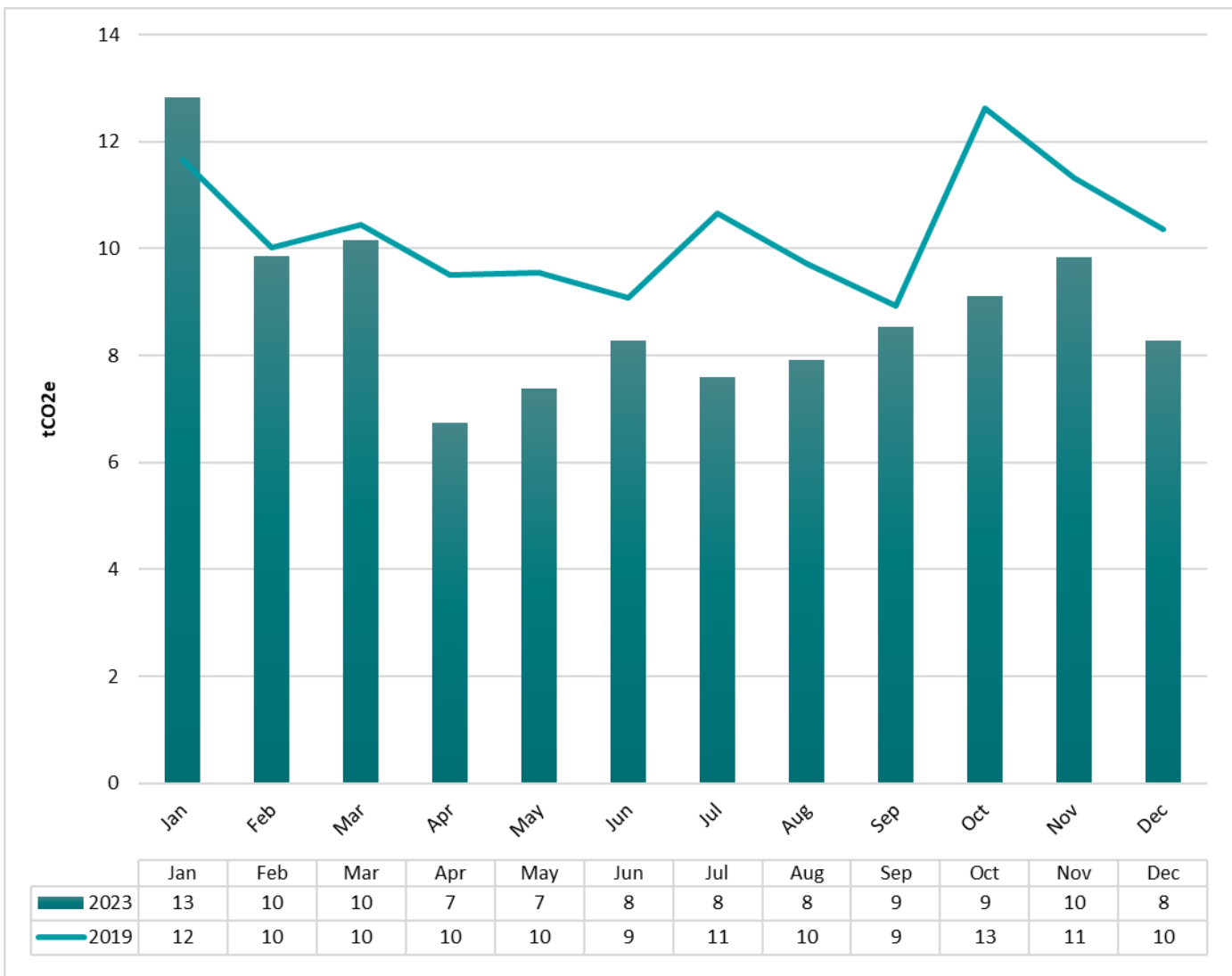
Scope 2 emissions are indirect GHG emissions resulting from purchase of electricity, steam, heat or cooling.

Sustainable Energy First have collated emission data from Jan-23 to Dec-23.

The graph below displays the monthly Scope 2 emissions from Jan-23 to Dec-23 which were 107 tCO₂e.

The Scope 2 Emissions are 14% lower compared to baseline year 2019.

2023 vs 2019 (tCO₂e)



Scope 3 – Emission Performance

This section of the report details ICS Cool Energy Ltd’s scope 3 Emissions. This includes emissions from employee-owned vehicles used for business purposes.

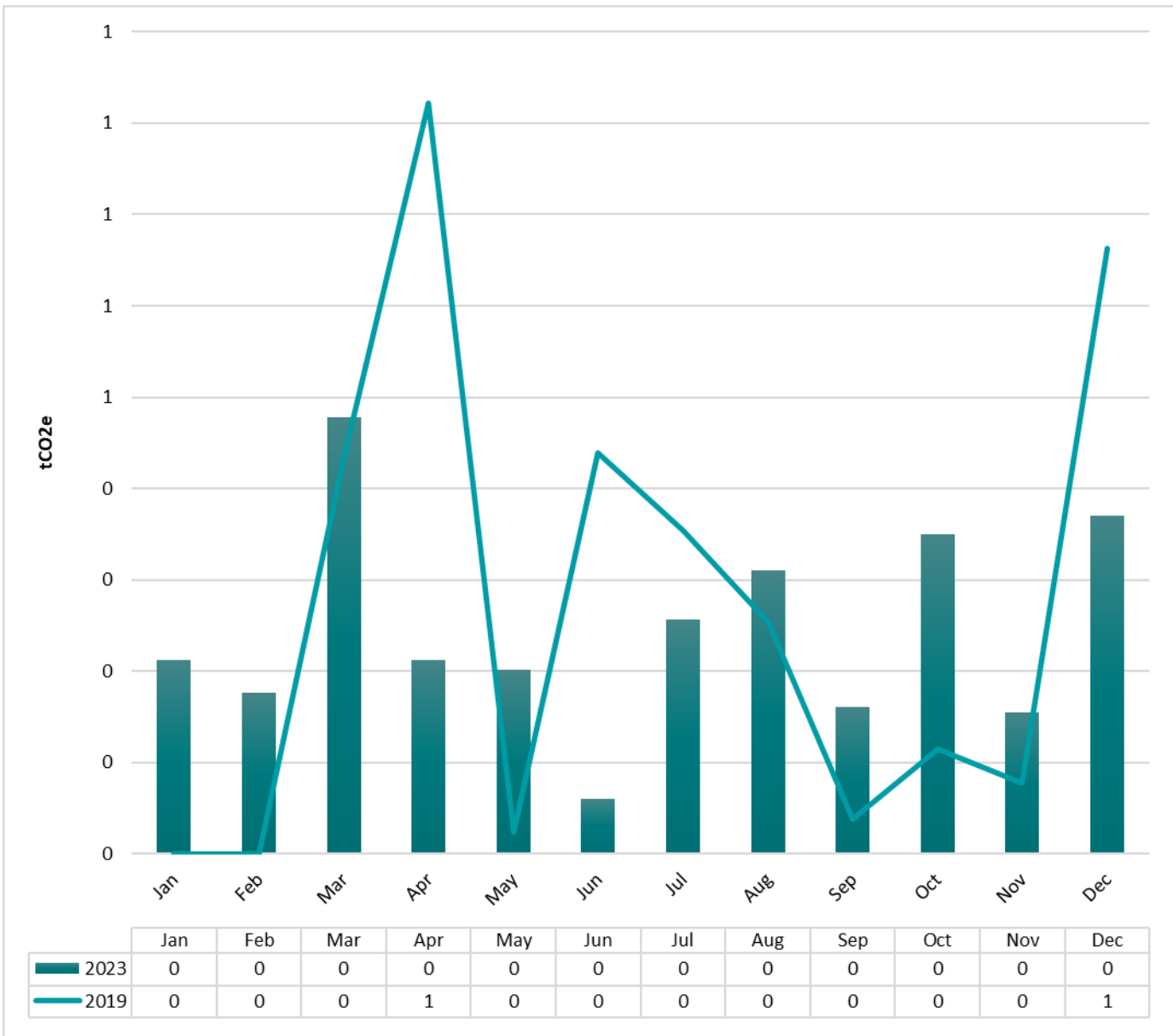
Scope 3 emissions are indirect GHG emissions resulting from sources not directly owned or controlled by reporting company.

Sustainable Energy First have collated emission data from Jan-23 to Dec-23.

The graph below displays the monthly Scope 3 emissions from Jan-23 to Dec-23 which were 3 tCO₂e.

The Scope 3 Emissions are 9% lower compared to baseline year 2019.

2023 vs 2019 (tCO₂e)



Intensity ratio – Turnover (£m)

This section details ICS Cool Energy Ltd's total Location Based Scope 1 ,2 and 3 financial year 2023 SECR Intensity Ratio. This is comprised of all emissions associated with the operating activities of ICS Cool Energy Ltd, per million Turnover.

From Jan-23 to Dec-23 the Intensity Ratio based on total Scope 1,2 and 3 emissions (location based) against turnover (£m) is 47.3.

This is a decrease of 34% on the baseline year 2019.

2023 vs 2019 Intensity Ratio (tCO₂e/£m Turnover)

Intensity Metric Assessment		2023	*2022	*2019	Variance
Intensity Ratio 1	<i>Total scope 1,2 & 3 (tCO₂e/£m)</i>	47.3	50.46	71.61	-34%

* Restated Energy and Carbon figures for 2022 and 2019 , now includes refrigerant Gas usage and Employee vehicles business mileage figures.

SECR annual report statement

Energy Consumption		2023	*2022	*2019	Variance
Scope 1: Combustion of fuel and operation of facilities.	Natural Gas (kWh)	461,821	379,442	240,766	92%
	Direct Transport Company Cars (kWh)	3,794,626	2,787,666	3,382,750	12%
	LPG (kWh)	64,409	84,648	109,307	-41%
	Refrigerants (kg)	977	1,095	1,756	-44%
Total Scope 1 Energy (kWh)		4,320,856	3,251,756	3,732,823	16%
Scope 2: Electricity purchased.	Total Electricity (kWh)	514,481	581,137	484,891	6%
Scope 3 : Indirect Transport	Employee owned Vehicles (kwh)	11,617	38,960	13,170	-12%
Total Scope 1, 2 and 3 Energy Consumption (kWh)		4,846,955	3,871,853	4,230,884	15%

Emissions Assessment		2023	*2022	*2019	Variance
Scope 1: Combustion of fuel and operation of facilities.	Natural Gas (tCO ₂ e)	84	69	44	91%
	Direct Transport (tCO ₂ e)	890	672	828	7%
	LPG (tCO ₂ e)	13.8	18.2	23.4	-41%
	Refrigerants (tCO ₂ e)	1,748	1,897	3,164	-45%
Total Scope 1 - tCO₂e		2,736	2,657	4,060	-33%
Scope 2: Electricity purchased and heat and steam generated.	Location Based (LB) (tCO ₂ e)	107	112	124	-14%
	Market Based (MB) (tCO ₂ e)	102	125	109	-7%
Scope 3 : Indirect transport	Employee owned Vehicles (tCO ₂ e)	2.9	10	3.2	-9%
Location Based	Total Scope 1, 2 and 3 Emissions (tCO₂e)	2,845	2,779	4,187	-32.1%
Market Based	Total Scope 1, 2 and 3 Emissions (tCO₂e)	2,840	2,792	4,172	-32%

Intensity Metric Assessment		2023	*2022	*2019	Variance
Intensity Ratio 1	Total scope 1,2 & 3 (tCO₂e/£m)	47.3	50.46	71.61	-34%

* Restated Energy and Carbon figures for 2022 and 2019 , now includes refrigerant Gas usage and Employee vehicles business mileage figures.

EXCLUSIONS. No Mandatory emissions have been excluded from this report

EMISSIONS FACTORS APPLIED. DEFRA/BEIS GHG Conversion factors 2023

METHODOLOGY. This report is aligned with GHG protocol.

ESTIMATIONS. 1% of the overall Energy data (kwh) and 0.24% of the overall emissions is based on estimated values.

SCOPE OF EMISSIONS INCLUDED IN THE REPORT. Electricity, Gas ,Direct Transport ,Propane ,Refrigerants and Indirect Transport.

Energy efficiency action taken within the business year

ICS Cool Energy, an international market leader specialising in complete temperature control solutions for manufacturing process and facilities applications, celebrates the latest energy-saving improvements with the completion of the solar panel installation at its facility in Totton.

The installation of 500 photovoltaic (PV) solar panels increases the site's operational energy efficiency, marking a significant step forward in ICS Cool Energy's journey to reducing its carbon footprint. With a system design capacity of 209 kW, the solar panel installation is set to annually generate over 197000 kilowatt-hours (kWh) of energy. The facility's average annual energy consumption is expected to reach little over 69% of the generated power, with the rest put back to the grid. The move to solar power will generate annual CO₂ emissions savings estimated at up to 92,900 kg.

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Date 04/03/2024

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Date 12/03/2024

BiU now Sustainable energy First is the UK's leading energy consultancies, providing a full range of energy management and support services to help our clients save time and money and improve energy efficiency.

We work with 350 large energy users locally, nationally and internationally, providing them with energy procurement services, invoice validation, revenue audits, plus a wide range of energy efficient solutions, such as consumption monitoring and carbon reduction.

Sustainable Energy First are committed to providing excellent service and are continually working to improve our products and services to meet our clients' changing needs. Our market-leading software sets us apart from other energy consultancies and enables us to provide bespoke energy support services to all our clients.



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