



# Kaizen Reporting

2019 Carbon Footprint Report

## Executive Summary

The carbon footprint of Kaizen Reporting for 2019 is 37.05 tCO<sub>2</sub>e (tonnes of carbon dioxide and equivalents). This puts your carbon footprint at 0.49 tCO<sub>2</sub>e per employee. Your three most significant areas of emissions came from your flights (long haul, business) (14.62 tCO<sub>2</sub>e), staff commute (9.08 tCO<sub>2</sub>e), and electricity (5.50 tCO<sub>2</sub>e). Please see below for greater detail.

## Introduction

This report provides emissions data for Kaizen Reporting over the period 01/01/2019 - 31/12/2019. As this is your first attempt at a carbon footprint, this can act as your base year against which your future footprints will be compared. The emission totals are based on the data provided in the Module 1 submission of the ESI Monitor Environmental Business Operations Framework (EBOF) Version 3 on 1/11/2020.

**Coverage:** The GHG Protocol requires measurement across all Scope 1 and 2 emissions. Scope 3 emission measurement is not currently mandatory for a carbon footprint. The EBOF goes beyond the basic GHG Protocol requirements to maximise the extent and accuracy of reporting.

**Data Sources:** In line with the GHG Protocol, the EBOF calculates emissions based on the operational data provided by Kaizen Reporting together with the carbon intensity figures/emissions factors published each year by DEFRA. If more specific or local intensity data is available, then this may be used in preference to more generic DEFRA figures.

**Verification:** Footprint verification will be conducted by ESI Monitor using data provided by Kaizen Reporting, following their submission of Module 4.

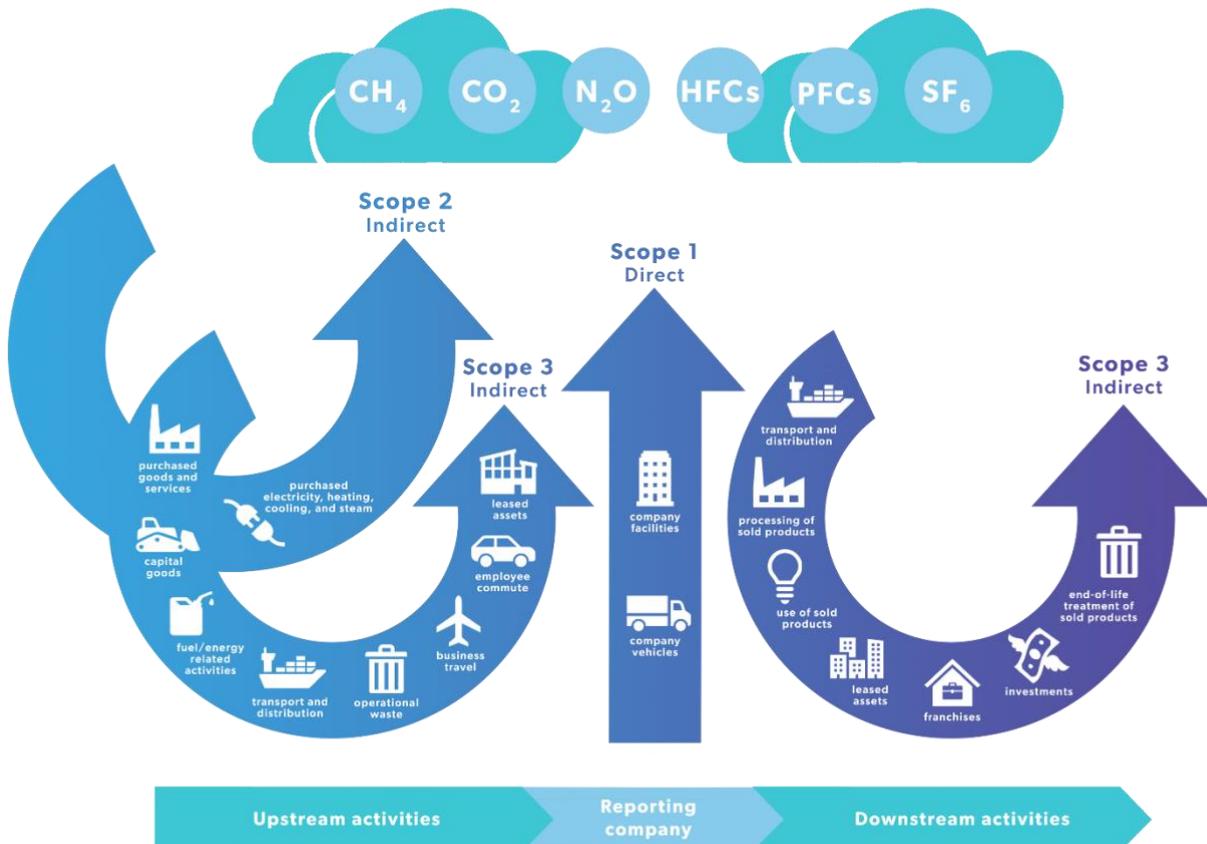
## Project Boundaries

Your carbon footprint is broken down into Scopes 1, 2, and 3.

**SCOPE 1** emissions are directly produced on-site. This includes any fuel boilers and generators, refrigerant leaks (from fridges and air-con e.g.), company vehicles, or emissions from production processes.

**SCOPE 2** emissions are indirect as they are from imported sources. This is the purchase of electricity, and less commonly, heat and steam.

**SCOPE 3** emissions are all other indirect emissions that occur in your company's value chain. These are broken down into 15 overall upstream and downstream emissions.



## Carbon Footprint Breakdown

Scope	Sub-Scope	Pollutant	Units	Tonnes CO2e
Scope 3	Flights	Long Haul Business Class (km)	34496 km	14.62
Scope 3	Staff Commute	Total Staff Commute	n/a	9.08
Scope 2	Electricity	UK Grid Electricity	23607 kWh	5.503
Scope 1	Fugitive	R410a	1.5 kg	3.135
Scope 3	Flights	Short Haul Economy Class (km)	18606 km	2.85
Scope 3	Hotel	Total Hotel Nights	29 nights	0.545
Scope 3	Flights	Short Haul Domestic (km)	2048 km	0.5
Scope 3	Waste	Total Waste	233 kg	0.42
Scope 3	Land	Total Land Travel	7429.7 km	0.39
Scope 3	Water	Water Usage	8,714 litres	0.01

## Carbon Footprint Overview

Here you can see that for every employee at Kaizen Reporting, you created 0.49 tonnes of CO<sub>2</sub>e. CO<sub>2</sub>e represents all GHG emissions (Carbon Dioxide and equivalents).

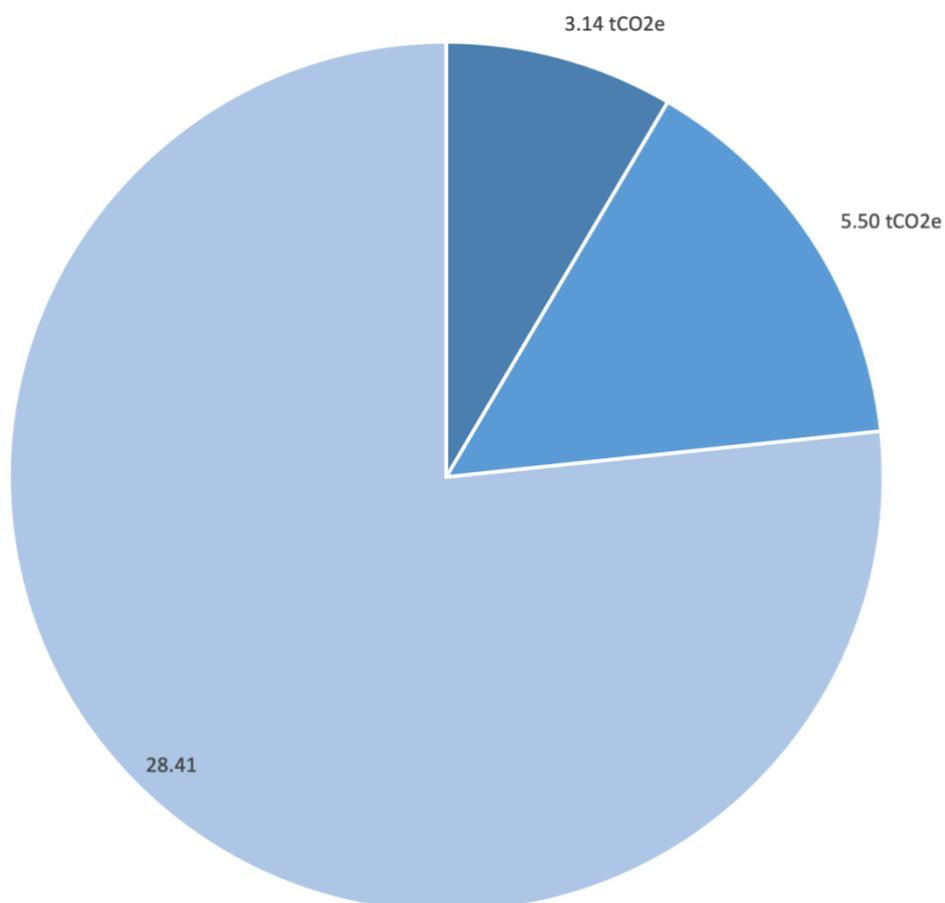
**37.05 tCO<sub>2</sub>e**

Total CO<sub>2</sub>e emissions

**0.49 tCO<sub>2</sub>e**

Emissions per employee

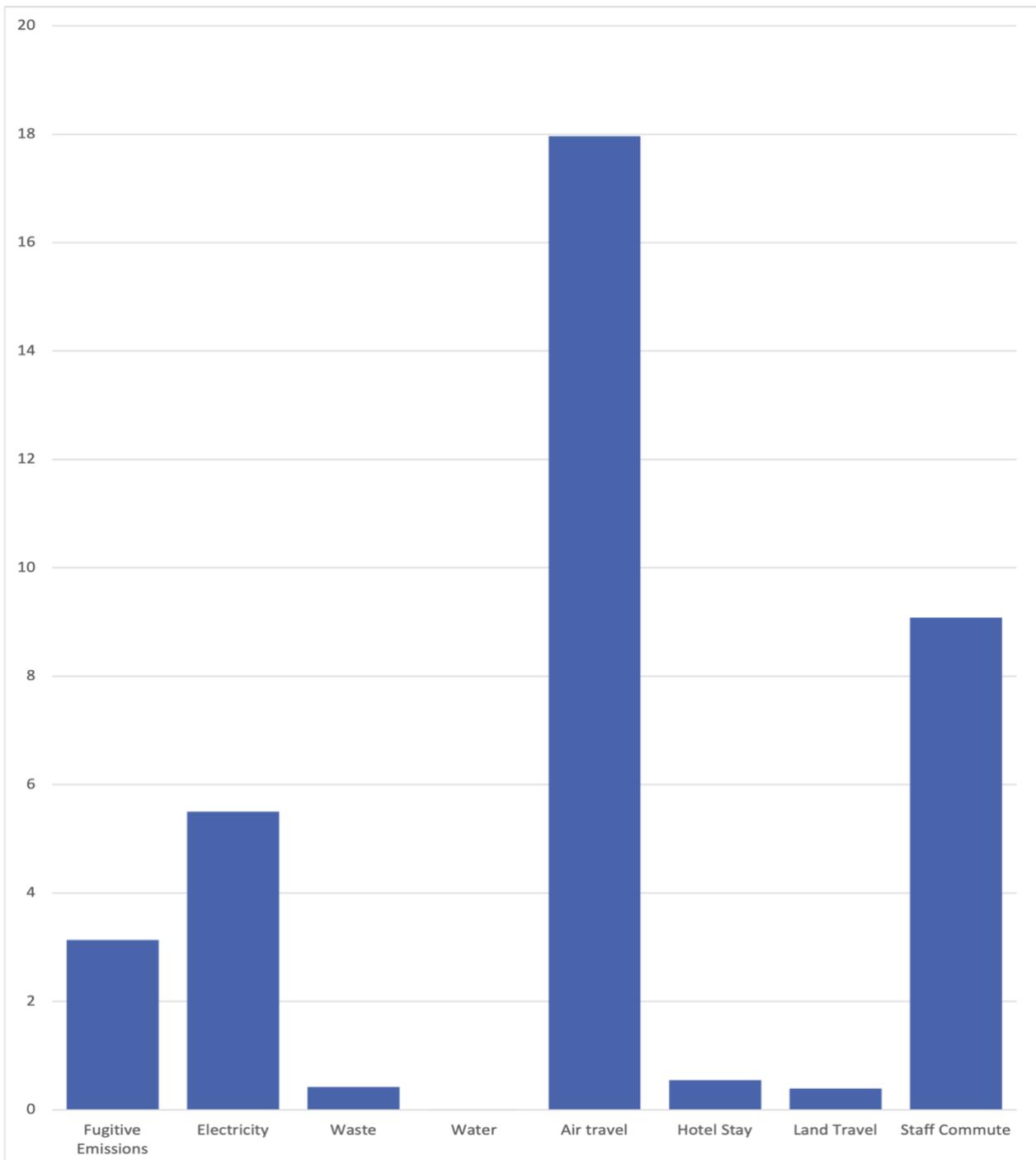
Tonnes of CO<sub>2</sub>e by Scope



Scope 1 ● Scope 2 ● Scope 3 ●

Overall, Kaizen Reporting produced 37.05 tCO<sub>2</sub>e in the year of 2019. Out of the data that has been submitted, the highest emissions come from your flights (long haul, business) which at 14.62 tCO<sub>2</sub>e, accounts for over 39.46% of your measured footprint. This is followed by staff commute, accounting for 24.51% of your measured footprint, and electricity, accounting for 14.85% of your measured footprint.

### Tonnes of CO<sub>2</sub>e by Sub-Scope



## Scope Review

### SCOPE 1

Comprising 8.46% of your overall carbon footprint are your Scope 1 emissions, for a total of 3.14 tCO<sub>2</sub>e. This comes from fugitive emissions, at 3.14 tCO<sub>2</sub>e.

The fugitive emissions do not include the emissions from the energy required to power the equipment, but only leaks from refrigerant gases. The energy usage is covered in your Scope 2 emissions.

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### SCOPE 2

Your electricity purchased in 2019 totalled at 5.50 tCO<sub>2</sub>e. This is from all electricity used for heating, lighting, and all other electricity uses. It comprises about 14.85% of your footprint, but it is an area that will be able to be reduced through greater energy efficiency and effectiveness measures which you will put in place in Module 3, with the help of the framework resources.

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### SCOPE 3

As Scope 3 emissions are comprised of all other indirect emissions from Kaizen Reporting's value chain, there is a lot more diversity in where the emissions come from. The largest amount of Scope 3 emissions that you have measured has come from your flights (long haul, business), at 14.62 tCO<sub>2</sub>e. This is then followed by staff commute, at 9.08 tCO<sub>2</sub>e, and flights (short haul, economy), at 9.08 tCO<sub>2</sub>e.

As your total flights comprise over 70% of your 2019 footprint, significant reductions in flights taken could result in a dramatic reduction in your overall footprint in future years. The rise in video conferencing has already supported this downward trend, but there are more actions that you can take to disincentivise unnecessary travel. We will support you in this as you build your action plans in module 3.

## Benchmarking

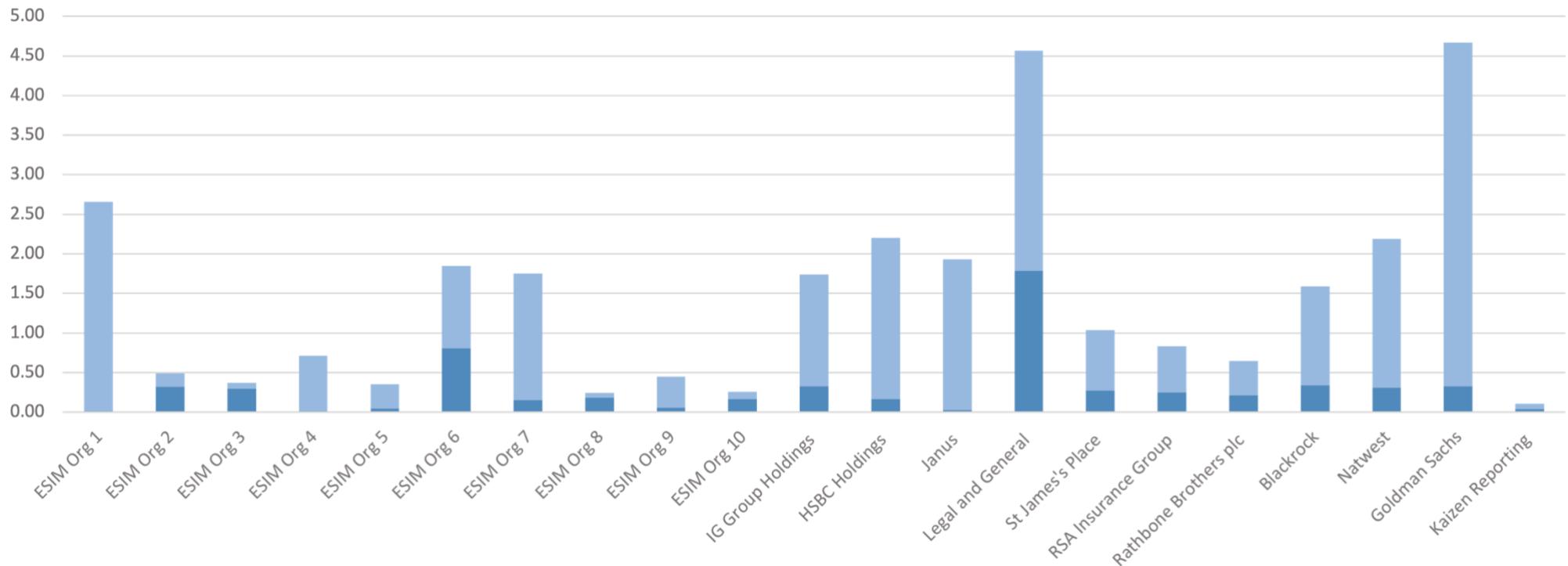
	Scope 1/FTE	Scope 2/FTE	Combined/FTE
Benchmarking Average	0.305	1.22	1.525
Kaizen Reporting	0.04	0.07	0.11

Here you can see how you compare to organisations based on their Scope 1 and location-based Scope 2 emissions, divided by the number of full-time employees (FTE).

As you can see, your Scope 1 emissions are 0.04 in this benchmarking sample, while your Scope 2 emissions are 0.07, and your combined emissions are 0.11. This is the lowest result out of all organisations in the benchmarking. Congratulations!

### Scope 1/FTE and Scope 2/FTE by Organisation

Scope 1 ● Scope 2 ●



Disclaimer: These benchmarking figures were calculated using publicly available data published by the included companies, or using data from companies enrolled in the EBOF. The accuracy of these figures cannot be guaranteed due to the rounding used in the original datasets.

When comparing organisations' carbon footprints, it is standard to compare only Scopes 1 and 2. This is because Scope 1 and 2 are the mandatory scopes for disclosure, and there can be variations in what Scope 3 emissions are reported between businesses. We hope that, in future, as measuring Scope 3 emissions become more wide-spread and standardised, we will be able to provide benchmarking in this area.

As Scope 3 emissions comprise the majority of your footprint, and as many aspects of your Scope 3 are not yet measured, the benchmarking is an incomplete view. The addition of Scope 3 emissions may alter how you compare to other organisations.

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### CARBON OFFSETTING

Please contact [fred@esimonitor.org](mailto:fred@esimonitor.org) for more information regarding next-steps in the management and mitigation of your emissions.



If you have any questions about your footprint, please get in touch with your primary contact at ESI Monitor, or use the details provided below:

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