# Operational Carbon Footprint Report

| | |
|---|---|
| Reporting company: | **Augustus Martin Ltd** |
| Reporting company number: | **00950118** |
| Facilities included: | **8-20 St Andrews Way, London E3 3PA** |
| Period covered: | **1st January 2017 – 31st December 2022** |
| Date report produced: | **March 2023** |
| CarbonQuota project no: | **AUG01_002** |

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# Contents



# About this report

We have taken summary data provided by yourselves, and validated it through a series of spot checks using evidence such as utility bills where we have been able too. We also compared your results to that of the wider industry and established that they are in line with what we would expect. We therefore believe this report to be a fair representation of your carbon footprint.

But you still know your business better than we do, so please verify the data presented in this report carefully, in particular checking the data tables are correct and that the information we have gathered from you is a true and accurate representation of what happens in your organisation. If any of the data results are not in line with what you expect, please let us and know and we can investigate with you.

This report covers your operational carbon footprint, limited to the carbon emissions associated with the energy and processes that you directly control in your buildings and company vehicles. If you have provided details, it also includes the carbon footprint of your staff when they are commuting to work, on business travel, or working at home.

It does not cover the carbon footprint of activities that you do not directly control such as printing substrates, consumables, other goods and services you purchase, sub-contracting, capital goods, waste, external transport, or end-of-life of sold products.

# Executive summary

## Your Carbon Footprint overview.


### Summary

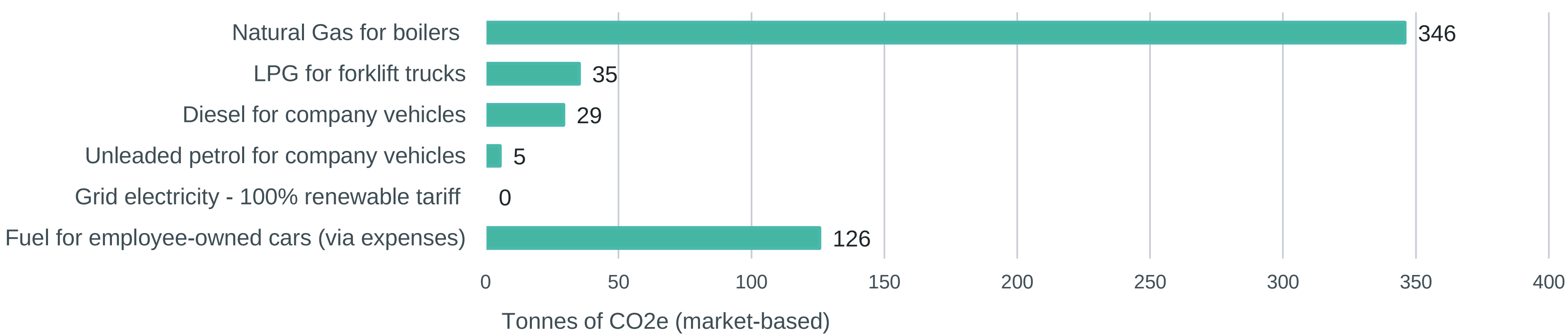
Your carbon footprint has decreased by **59 Tonnes** of CO2e since last year.

Your well-organised data allows us to see where your biggest wins in terms of carbon reduction have been.

### Three urgent things to do

1. Plan to replace fossil fuel-powered boilers with electric alternatives.
2. Decrease fuel for employee-owned cars by offering alternatives means of travel.
3. Invest in a company fleet of electric vehicles.

**Your carbon hotspots in 2022**




CO2e = carbon dioxide equivalent, the standard international measurement of carbon footprint.

# Your operational carbon footprint

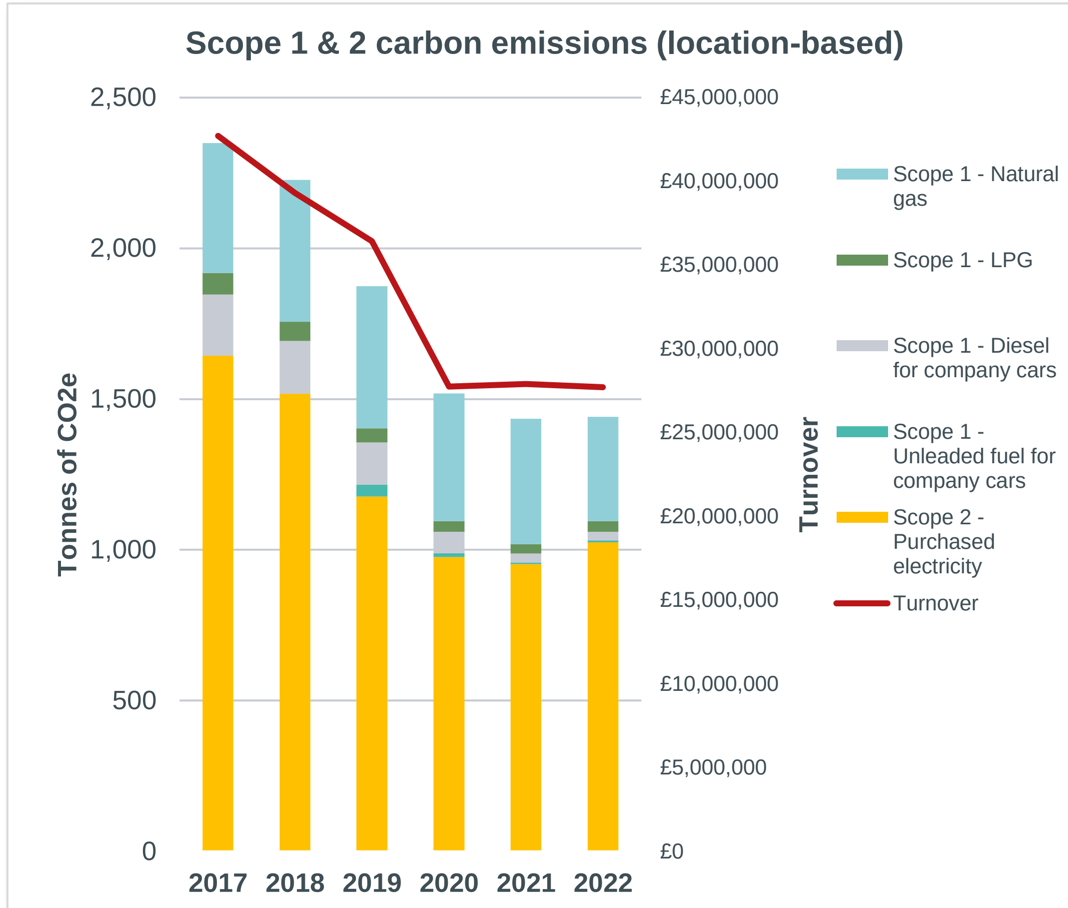
## This section assesses your carbon footprint associated with your direct energy use within your buildings and company vehicles.

Good news to start! Your carbon footprint has continued to fall on the market-based approach whilst your turnover remains consistent, this is primarily due to a decrease in natural gas consumption. Your footprint has remained consistent on the location-based approach as well. In principle, this is a good talking point for your customers – explaining how you have been using less energy and producing less carbon.

In October 2018 you switched to 100% renewable energy, and you will see the benefit of that in the market-based carbon intensity assessment in a couple of slides. But we use location-based assessment for most internal discussions about carbon footprints, largely because electricity is such a significant part of your energy mix and all important decisions should be made with this in mind.

Whilst the conversation around solar panels has been stalled the conversation should be redirected to talk about replacing natural gas boilers with electric alternatives. This will make huge savings whilst the solar panels are continuing to be discussed.

We note you are investigating electric vehicles. This will have a modest impact on your carbon footprint, but presumably considering ULEZ this switch is inevitable for you anyway.



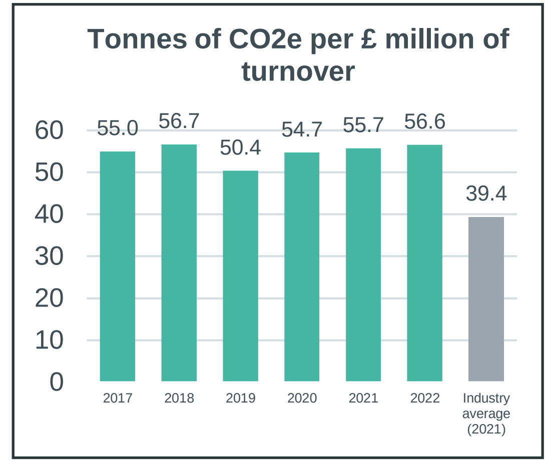
# Scope 1 & 2 intensity ratios (location-based)

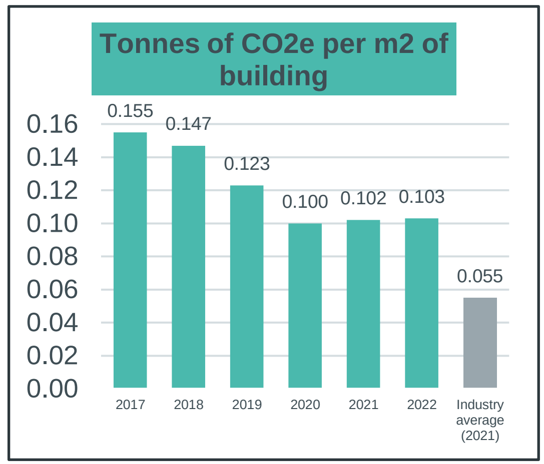
**Intensity ratios help you track improvements – think of them as 'key performance indicators' for carbon efficiency. Carbon intensity is calculated by dividing the total tonnes of $CO_2e$ by the relevant quantity of each metric.**

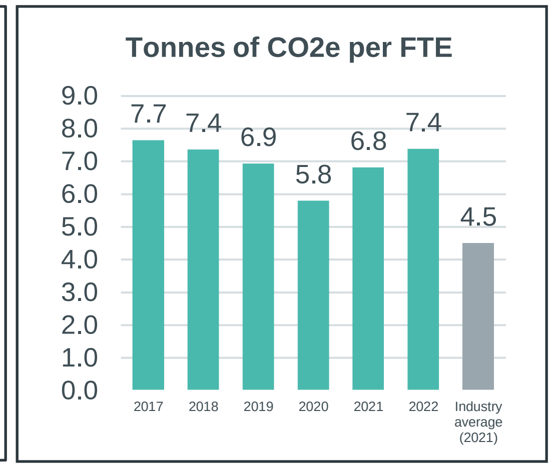
Considering your carbon footprint from a location-based perspective is important because that is what many consider your 'true' carbon footprint.

Your energy use and subsequent carbon footprint responds in line with your turnover. Secondly, because your FTE count has stayed fairly static, that is helping to somewhat reduce the intensity on this measure. That's why these are indicators only and should be seen in the context of making high level business decisions. As the science of carbon disclosure matures, some or all of these types of indicators will become important, and at some point you are likely to need to disclose them at your clients' request.

Your industry's most used intensity ratio relates to your per tonne of substrate purchased. Once this data becomes available, this should be the basis of your analysis.




*These ratios assume that you are financially careful – in other words, you don't buy too much substrate, don't occupy too much space, don't price too high and don't employ too many people.

# Scope 1 & 2 intensity ratios (market-based)

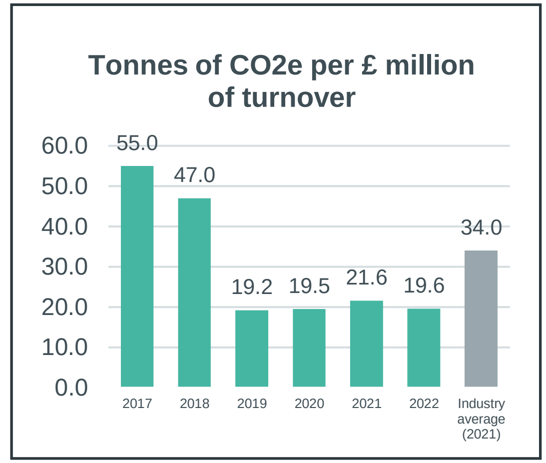
**Intensity ratios help you track improvements – think of them as 'key performance indicators' for carbon efficiency. Carbon intensity is calculated by dividing the total tonnes of CO2e by the relevant quantity of each metric.**

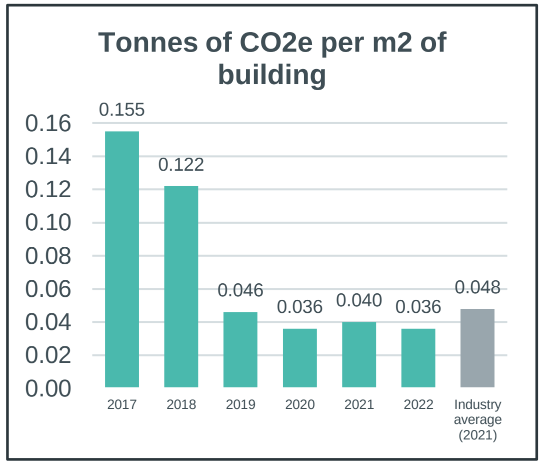
This is the market-based measure, and the one that is OK to talk about in general terms with your customers because it shows the benefit of investing in 100% renewable electricity.

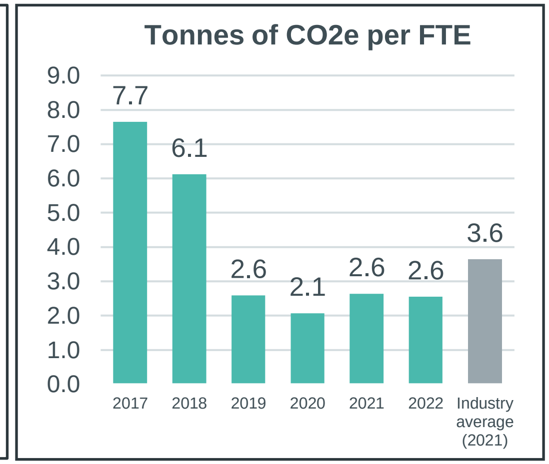
Your switch to renewable energy in October 2018 had an immediate impact on your emissions as the graphs show. This is a good start in your sustainability reporting and planning, as it shows a legacy of the benefits of business decisions made with environmental impact in mind.

Per £ million of turnover, your intensity of carbon is slowly decreasing, primarily due to your increase in turnover. This shows that despite a increase in activity and revenue your carbon emissions do not scale at the same rate which is really good to see.

However – what is important is the foundation that your carbon footprint on these two indicators is comfortably below the industry average. Your industry's most used intensity ratio relates to your per tonne of substrate purchased. Once this data becomes available, this should be the basis of your analysis.




*These ratios assume that you are financially careful – in other words, you don't buy too much substrate, don't occupy too much space, don't price too high and don't employ too many people.

# Your carbon reduction strategy

## What is your carbon reduction plan?

One of the most challenging areas for most businesses to deal with is natural gas, which depends on the age and purpose of boilers. You should phase this out in the next few years by switching to electric, because of its lower carbon footprint.

There are alternative processes and technologies such as, heating people rather than space, and a good short-term fix is to switch to biofuels.

Secondly, using company vehicles and fuel for employee-owned cars is a significant contributor to your carbon footprint. Many manufacturers like you are planning to phase out diesel and petrol vehicles with electric. In some cases, it is more financially viable to step via hybrid vehicles.

If a significant proportion of your driving is in cities, this is especially important as it will help reduce air pollution as well.

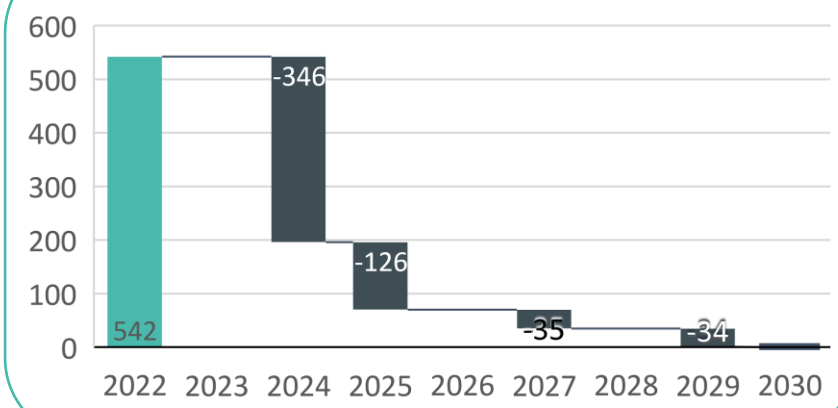
Thirdly, forklifts are an essential piece of equipment, and you should be looking to replace LPG forklits with electric alternatives, maybe transitioning via propane forklifts.

Everything you do to reduce your carbon footprint should be supported by a financial plan. An operational carbon reduction plan will provide focus to these areas, as well as demonstrate to your customers that you are in control of your carbon footprint.

The next few pages outlines a number of initiatives that other organisations like yours have been implementing to reduce their energy usage and carbon footprint.

Reducing your carbon emissions requires consistent annual reductions. If you complete these objectives over the next 7 years you will see a consistent carbon reduction. You should be targeting an annual reduction of 77 tonnes of $CO_2e$.

| Reduction target | Possible carbon reduction - $tCO_2e$ |
|---|---|
| Replace fossil fuel-powered boilers with electric alternatives | 346 |
| Decrease fuel for employee-owned cars by offering alternatives means of travel | 126 |
| Eliminate LPG | 35 |
| Invest in a company fleet of electric vehicles | 34 |



# Carbon disclosure

## When your customers ask.

It is becoming normal to disclose your carbon footprint to your customers. This can be in statutory reports, in responses to enquiries, and on public directories.

| | tCO2e | | | | | |
|---|---|---|---|---|---|---|
| | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
| Scope 1 | 704.95 | 708.69 | 698.11 | 541.88 | 481.99 | 415.93 |
| Scope 2 (market-based) | 1643.53 | 1138.31 | 0.00 | 0.00 | 0.00 | 0.00 |
| Scope 2 (location-based) | 1643.53 | 1517.75 | 1176.36 | 976.50 | 952.89 | 1025.39 |
| Scope 3 | 0.00 | 0.00 | 0.00 | 0.00 | 119.40 | 125.66 |
| Total (market-based) | 2348.48 | 1847.00 | 698.11 | 541.88 | 601.39 | 541.58 |
| Total (location-based) | 2348.48 | 2226.44 | 1874.47 | 1518.38 | 1554.28 | 1566.97 |

Please note your scope 3 consists of fuel for employee-cars only. This data was not recorded in 2018,2019 & 2020.

### External Assessment – what to say about this process:

We have appointed CarbonQuota to independently assess the accuracy, completeness, and consistency of energy use and carbon footprint calculations, within the operations under our direct control.

Being asked about your Scope 3 emissions, or need more help? Contact **info@carbonquota.co.uk**

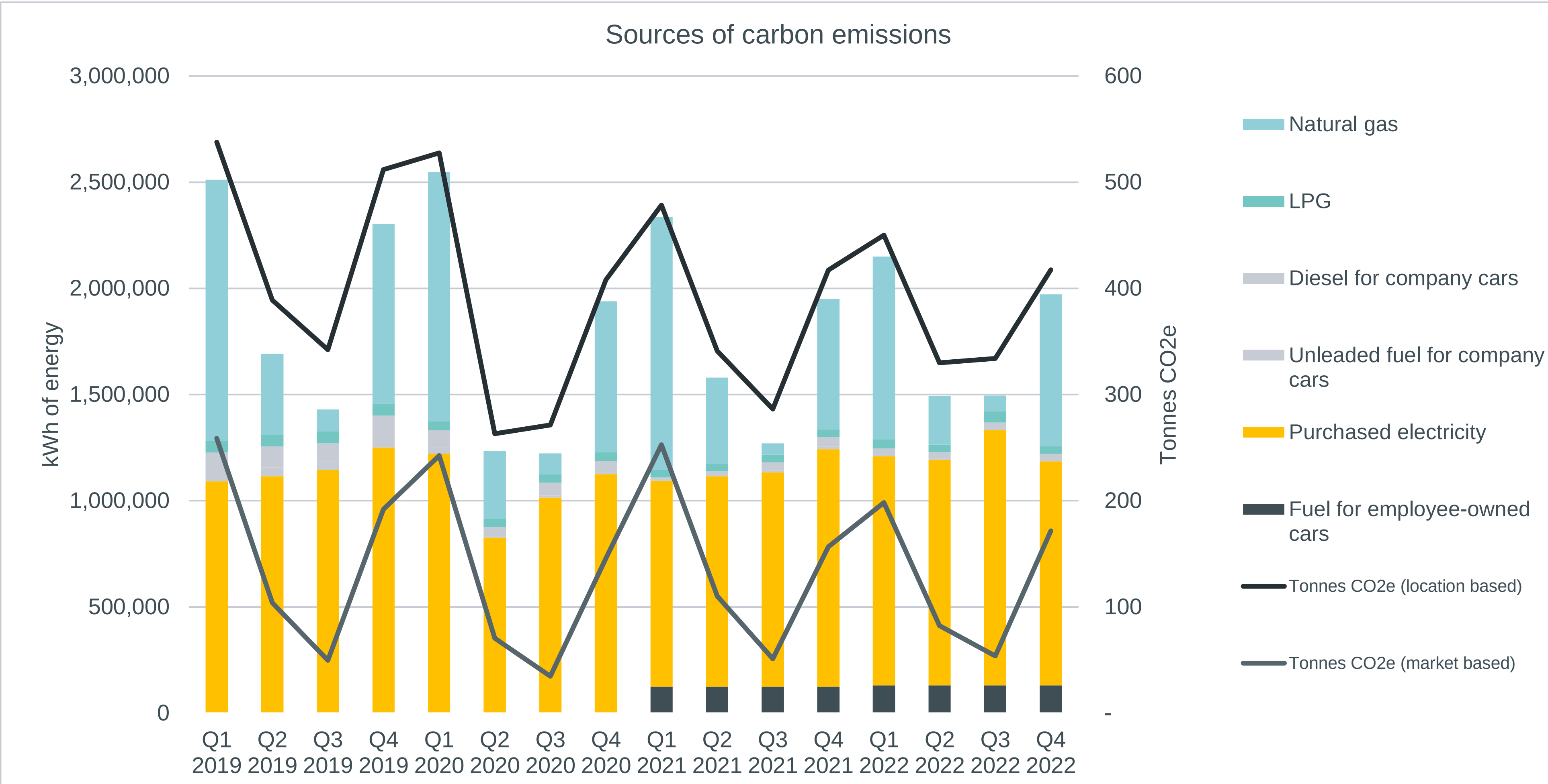
## CarbonQuota can help you with

Creating a reputable, in depth, and market leading carbon reduction plan that will help you to:

- Disclose to organisations such as
  - CDP
  - Ecovadis
  - SECR
- Enhance your ESG reporting;
- Ensure yearly carbon reductions;
- Help financially plan to achieve carbon reduction targets.

# Quarterly energy tracker

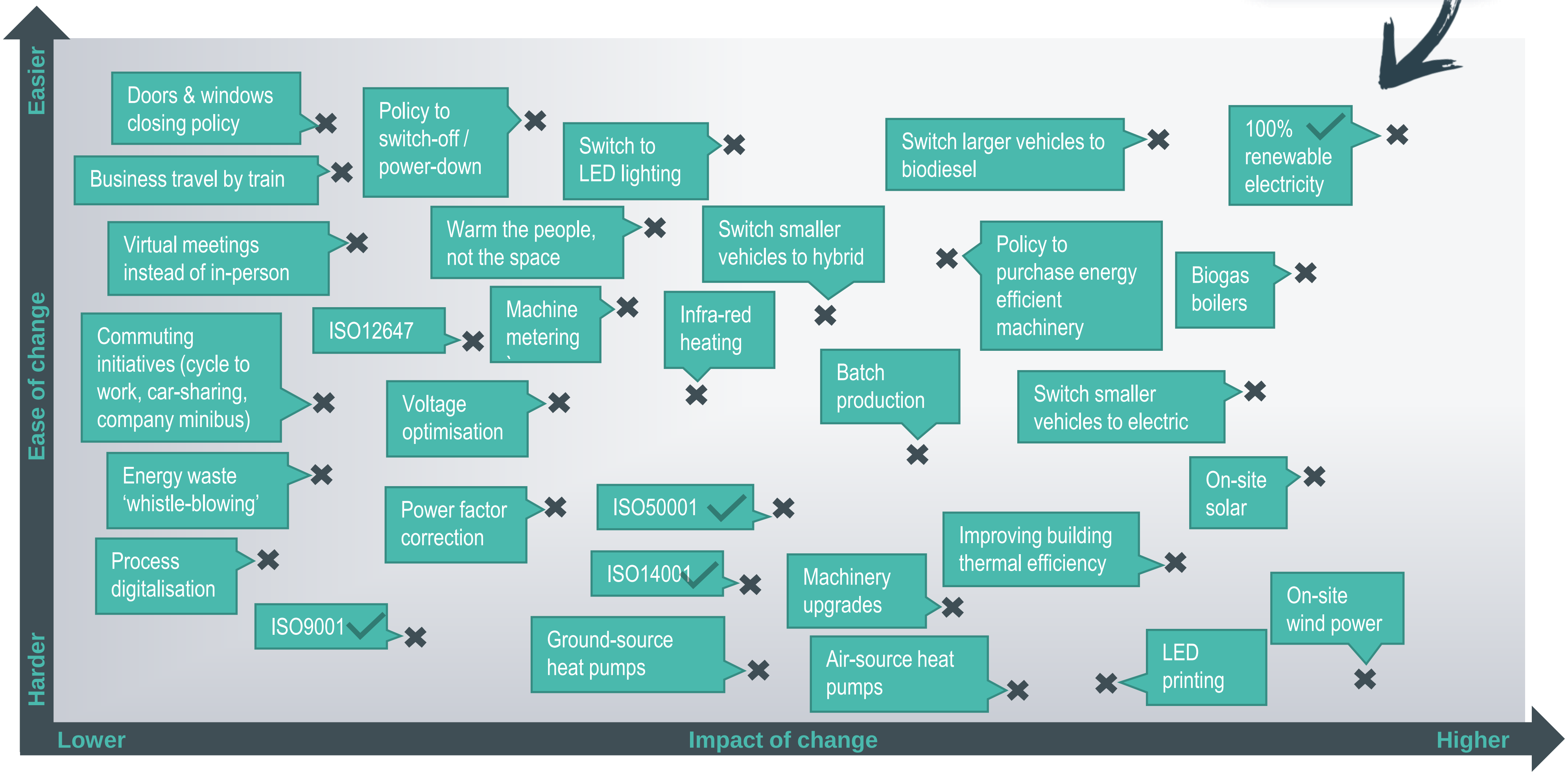
**The 'waves' need to get lower and shallower, which will follow initiatives to reduce your energy use**



# Improving your energy efficiency

**We have ranked the top thirty initiatives across the print industry that are improving energy efficiency and reducing carbon footprints. How do you compare?**

The easiest and most impactful changes for the print sector are towards the top right corner.



# Marketing Toolkit: Carbon Footprint Report

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OPERATION

**59** tonnes
**reduction**

At Augustus Martin Ltd, our absolute emissions fell by 59 tonnes from our baseline year. In 2021 our annual emissions were 601 tonnes of CO2e, and in 2022 they were 542 tonnes of CO2e.

## Baseline Footprint

In 2017 our intensity ratio of CO2e per £ million of turnover was 55 tonnes.

**55**
Tonnes
per £ million of turnover

## 2022 Footprint

In 2022 our intensity ratio of CO2e per £ million of turnover was 20 tonnes, a **64% reduction.**

**20**
Tonnes
per £ million of turnover

## How that compares

Our absolute carbon reduction savings are equivalent to

**Flying 13 times around the world**
in economy class…

…or driving
**281 thousand**
miles…

…or boiling just enough water for
**6.8 million**
cups of tea

tCO2e = Tonnes of carbon dioxide equivalent, the standard international measurement of carbon footprint.