



Sustainability Report 2020

ORIGIN

Introduction

This report is our 3rd annual Sustainability Report. Our inaugural report was a marker in the sand. It was a demonstration of our commitment to the highest levels of corporate social responsibility. The triple bottom line of sustainability.

In 2020 Origin took a significant step by achieving B Corp status. This has cemented our commitment to reduce our carbon footprint and improve sustainable practices across the business. We are aligning our aims with the UN Sustainable Development Goals and we have pledged to reduce emissions to Net Zero by 2030 to address the climate emergency, please see our “Roadmap to 2030” at the end of this report.

To ensure we are following best practice in our reporting we have invested in the external verification of our carbon footprint.

We aim to be transparent with our stakeholders by avoiding any greenwashing, we are open about the most polluting parts of our business and will be discussing our long term aims to improve these areas.

Previous reports have included analysis for our head office, this year, we have expanded the scope to include our cafes, transport of green coffee from source to roastery and our use of cardboard packing boxes. We will be introducing you to our suppliers and how they help us to improve our impacts.

We cannot discuss 2020 without mentioning the impact of the global Covid-19 Pandemic. Origin's wholesale business dropped by some 30% during the first lockdown, and very sadly a number of redundancies had to be made. Using our KPI's to measure performance will keep comparisons between years consistent.

This report has been compiled and written by our Sustainability Officer who is a Registered Environmental Practitioner.



Photo: Using Grain Pro sacks from the roastery to collect rubbish on a monthly staff beach clean

2020 Achievement: Gained B Corp Status

We are a certified B Corporation. B Corp is the only certification that measures a company's entire social and environmental performance. The B Impact Assessment evaluates how a company's operations and business model impact their workers, community, environment, and customers. It interrogates everything from supply chains and input materials to charitable giving and employee benefits. It's the gold standard of sustainability. Of a company balancing profit and purpose.

The process of getting B Corp certified was long and rigorous, but an important validation of who we are and what we do. It's also a demonstration of intent. To not only continue to work in a responsible way, but continually striving to do better. The Impact Assessment is revisited every three years to ensure that it's upheld. B Corp Certification also requires a legal commitment to considering stakeholder impact for the long term. It's now built into our company's legal structure.

By joining the global B Corp community we are part of a new movement of businesses, agreeing to use what we do as a force for good. There are currently over 3,000 certified B Corporations in more than 50 countries. We're in good company and we're all fully accountable.

B Corp Climate Action Commitment: Net Zero by 2030 Pledge

We are committed to achieving Net Zero emissions by 2030. The carbon footprint section of this report outlines our Scope 1, 2 and most relevant Scope 3 emissions. We have shown how the Scope has increased to account for more Scope 3 emissions this year. At the end of this report we have outlined our targets for the following year and the immediate action we are taking to reduce our emissions.



TOTAL SCORE: 81.9

IMPACT AREA SCORES:

Governance - 11.0

Workers - 22.3

Community - 25.8









Environment - 20.5

The UN Sustainability Goals and Origin

What are the UNSDG's?

The 2030 Agenda for Sustainable Development, adopted by all United Nations Member States in 2015, recognize that ending poverty and other deprivations must go hand-in-hand with strategies that improve health and education, reduce inequality, and spur economic growth – all while tackling climate change and working to preserve our oceans and forests. The table opposite shows how Origin's aims align with the SDG's.

Table 1: the sustainable development goals prioritised by Origin (see right)

| Origin's Aims | Actions & Achievements | Alignment to the UN SDGs |
|--|--|---|
| Building a Circular Economy | <ul style="list-style-type: none"> Reduced General Waste at The Roastery by 15% compared to 2019. Developing recyclable and compostable packaging solutions. Teaming up with First Mile to recycle our coffee bags that are not accepted in kerbside recycling. Setting up "Too Good to Go" to reduce food waste from our cafes. Working closely with the University of Exeter to research new and innovative packaging ideas and building networks with like minded stakeholders for example being part of "Plastic Free Falmouth". |  |
| Building strong, long lasting relationships with small farms and cooperatives. | <ul style="list-style-type: none"> Through our direct trade practice, we are able to support our farm and mill partners directly, giving our drinkers full traceability of the coffee in their cup. Wherever possible we visit the farmers or mill representatives each year - in El Salvador, Nicaragua, Colombia, Brazil - we ask questions, and we listen. To the farmers, to the workers, and to their families. Our partners are committed to environmentally and socially sustainable practices. Our coffee program is one of the cornerstones of our B Corp certification. |  |
| Tackling Climate Change | <ul style="list-style-type: none"> Signing the Carbon Neutral Now Pledge, we must report annually on the progress of our emission reduction targets External verification of our carbon footprint Committing to buying 100% green electricity Installing solar panels to produce our own electricity at The Roastery. |   |
| Improving employee well being | <ul style="list-style-type: none"> Staff development and training. Committed to pay the living wage. Employees have access to the Bike 2 Work scheme. Organizing Staff activity days including local beach cleans. |   |
| Supporting Direct Trade and driving innovation within the coffee industry | <ul style="list-style-type: none"> Working directly with small farms. Supporting local initiatives – healthcare and education, paying above minimum wage at coffee farms Roasting coffee using the Loring smart roaster, which is highly energy efficient, reducing our fossil fuel demand. |   |

Our Carbon Footprint

Supporting the UK Government initiative to bring all greenhouse gas (GHG) emissions to net zero by 2050, we began measuring our carbon footprint in 2016 and have since expanded the scope and targets to aim towards Net Zero by 2030.

What is a Carbon Footprint?

Origin's "Organisational Carbon Footprint" measures the GHG emissions from activities caused directly and indirectly across the organisation and is measured in tonnes of carbon dioxide equivalent (tCO₂e). It accounts for all six emissions:

- Carbon dioxide (CO₂)
- Methane (CH₄)
- Nitrous oxide (N₂O)
- Hydrofluorocarbons (HFCs)
- Perfluorocarbons (PFCs)
- Sulphur hexafluoride (SF₆)

Why Calculate our Carbon Footprint?

Quantifying our greenhouse gas emissions helps us to understand what impact our organisation is having on climate change and enables us to identify areas for reducing emissions.

The Greenhouse Gas Protocol Standards

This guidance sets out how an organisation should account for their emissions and categorises them into 3 groups or 'scopes'. We have followed this guidance and used the UK Governments GHG conversion factors to calculate our carbon footprint. Our methodology has been certified by GEP Environmental. Please see verification statement in Appendix 1.

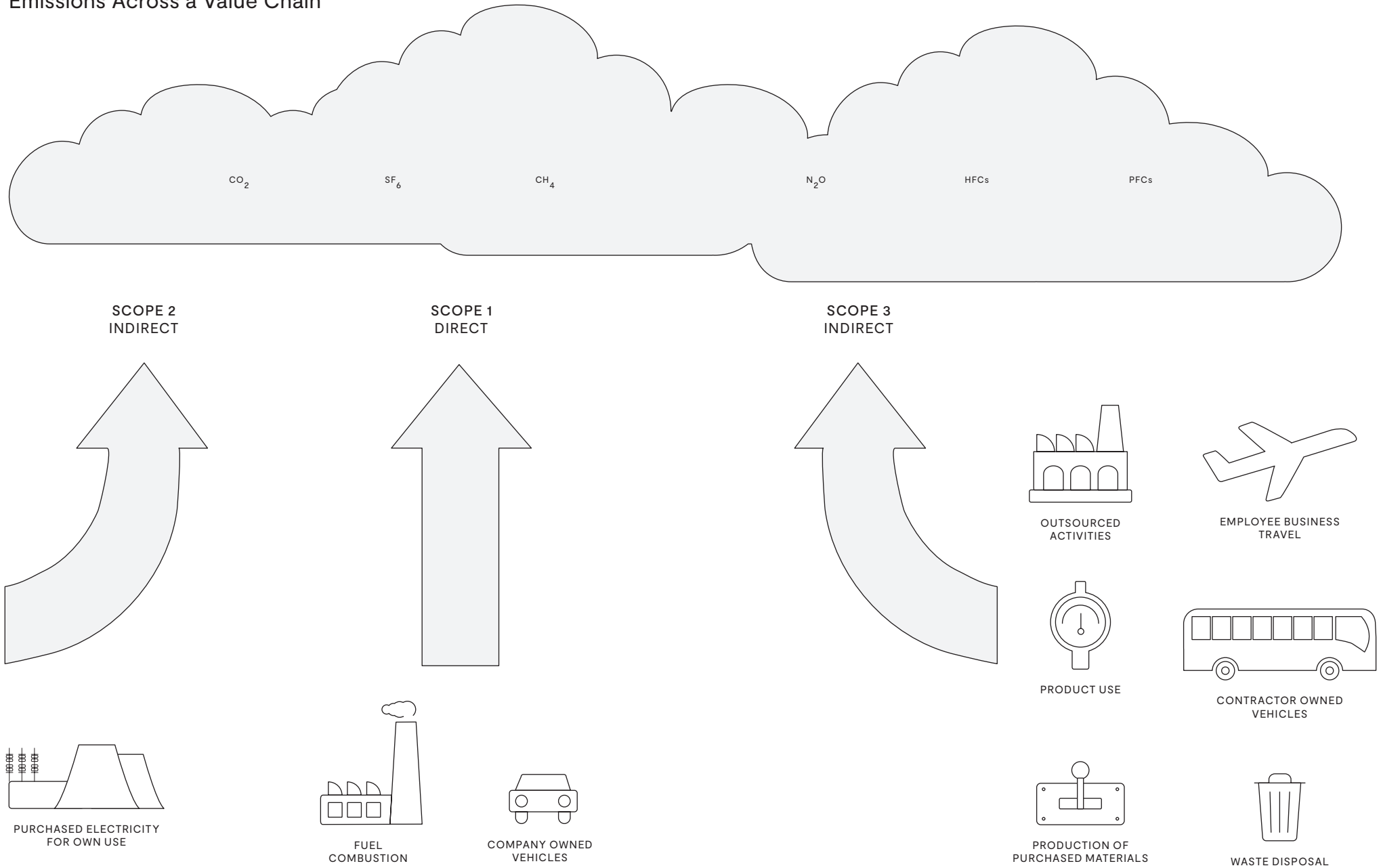
SCOPE 1: Direct activities resulting from activities within Origin's control for example on-site fuel combustion (eg. Roasters, boilers), manufacturing and process emissions and company vehicles.

SCOPE 2: Indirect emissions from any electricity or heat used. Although we are not directly in control of the emissions, by using the energy we are indirectly responsible for the release of CO₂.

SCOPE 3: Any other indirect emissions from sources outside of our control for example business travel by means not owned or controlled by Origin, outsourced transportation, purchased materials, waste disposal and water consumption. All organisational footprints must include scope 1 and 2 emissions, it is optional to include relevant scope 3 emissions.



Overview of Scopes of Emissions Across a Value Chain

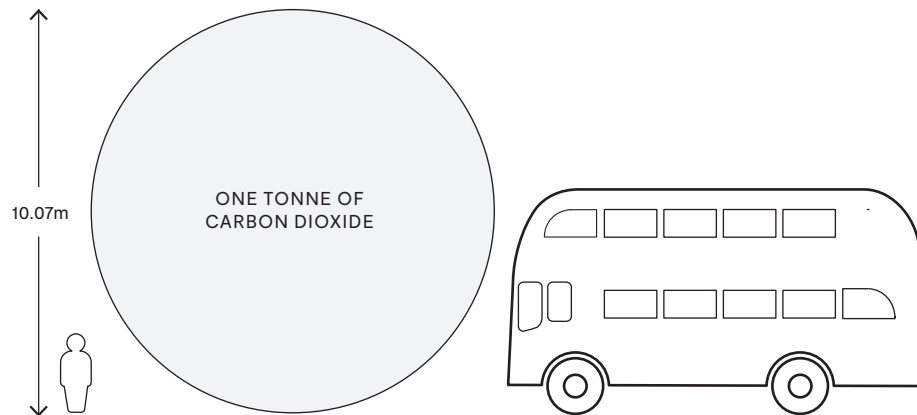


What is a Tonne of CO₂?

1 tonne of CO₂ is produced by driving a car for 3,001 miles or travelling by train for 10,321 miles.

Our total annual emissions of CO₂ at The Roastery is 252 tonnes (a detailed breakdown of this is provided in the next section of the report).

This is equivalent to driving around the equator in a car 30 times.



The Scope

Origin's Environmental Management System captures data across all 3 Scopes, this year we are including:

- Electricity and waste/recycling data from our Café's in Shoreditch, Southwark, Porthleven and Penryn
- Transport by boat and road of the coffee from the country of origin to the Roastery
- Cardboard boxes used to transport our roasted coffee to our customers

The reporting period spanned 1st January to 31st December 2020. For direct comparison to 2019 we have separated the data into 2 columns, Roastery Only and Full 2020 Scope.

We have been increasing the scope of our carbon footprint to include more Scope 3 emissions in addition to all Scope 1 and 2. See Table 2 for more information.

Table 2: Origin's activities included in each scope as defined by the greenhouse gas protocol (below)

| Scope 1 Emissions | Scope 2 Emissions | Scope 3 Emissions |
|-------------------------------|-----------------------|--|
| Fuel used by company vehicles | Electricity purchased | Waste and recycling |
| Gas purchased | | Water and sewerage |
| | | Transport of green coffee by boat and road |
| | | Purchased cardboard boxes |

Table 3: 2020 carbon footprint breakdown of on site activities and their associated carbon dioxide equivalent emissions

| Environmental Aspect | 2019 | | 2020 | | | |
|---|--------------------|--------------------------------|--------------------|--------------------------------|--------------------|--------------------------------|
| | Usage / Production | Emissions (tCO ₂ e) | Roastery Only | | Full Scope | |
| | | | Usage / Production | Emissions (tCO ₂ e) | Usage / Production | Emissions (tCO ₂ e) |
| Gas (MWhs) | 244 | 45 | 244 | 45 | 244 | 45 |
| General Waste (tonnes) | 7.6 | 0.2 | 6.4 | 0.1 | 10 | 0.2 |
| Fuel Cards (Diesel Litres) | 10,815 | 28 | 7,000 | 18 | 7,000 | 18 |
| Electricity (MWhs) | 43 | 11 | 46 | 11 | 109 | 26 |
| Recycling (tonnes) | 4.4 | 0.1 | 4.8 | 0.1 | 18 | 0.4 |
| Food Waste (tonnes) | 6.5 | 0.1 | 20 | 0.4 | 24 | 0.5 |
| Water & Sewerage (m3) | 245 | 0.1 | 144 | 0.05 | 210 | 0.2 |
| Transport by boat of green coffee from country of origin to London (tonne.km) | N/A | N/A | N/A | N/A | 1,414,224 | 18.7 |
| Road freight from London to Cornwall (tonne.km) | N/A | N/A | N/A | N/A | 70,880 | 7.5 |
| Purchased Cardboard Boxes | N/A | N/A | N/A | N/A | 41,596 | 136.5 |
| Total | | 85.0 | | 74.5 | | 252 |

| Key | |
|---------------------------|--------|
| Scope 1 - total emissions | 62.7 |
| Scope 2 - total emissions | 25.7 |
| Scope 3 - total emissions | 164.03 |

Key Performance Indicators

Table 4: Tonnes of CO₂e per FTE (full time employee)

| 2016-2017 | 2018 | 2019 | 2020 Roastery Only | 2020 Full |
|-----------|------|------|--------------------|-----------|
| 4.4 | 3.7 | 3.8 | 3.3 | 5.4 |

2020 will be the final year that we use the “Roastery only” data, moving forward we will compare with our full dataset. It is promising to see that tCO₂e dropped by 0.5 tonnes per FTE for the Roastery emissions.

Table 5: Tonnes of CO₂e per 1m Turnover

| 2016-2017 | 2018 | 2019 | 2020 Roastery only | 2020 |
|-----------|------|------|--------------------|------|
| X | 12 | 11 | 15 | 50.4 |

Due to the COVID pandemic our turnover dropped by over 30% in 2020 yet our operations continued hence the increase in tCO₂e/£1million turnover.

Table 6: Tonnes of CO₂e per tonne of roasted coffee

| 2019 | 2020 roastery only | 2020 Full |
|------|--------------------|-----------|
| 0.28 | 0.36 | 1.2 |

A new KPI that we have introduced. We roasted 1/3 less coffee in 2020 than in 2019, hence the increase. Now that we have a baseline, we will introduce a target to reduce this KPI for 2021.

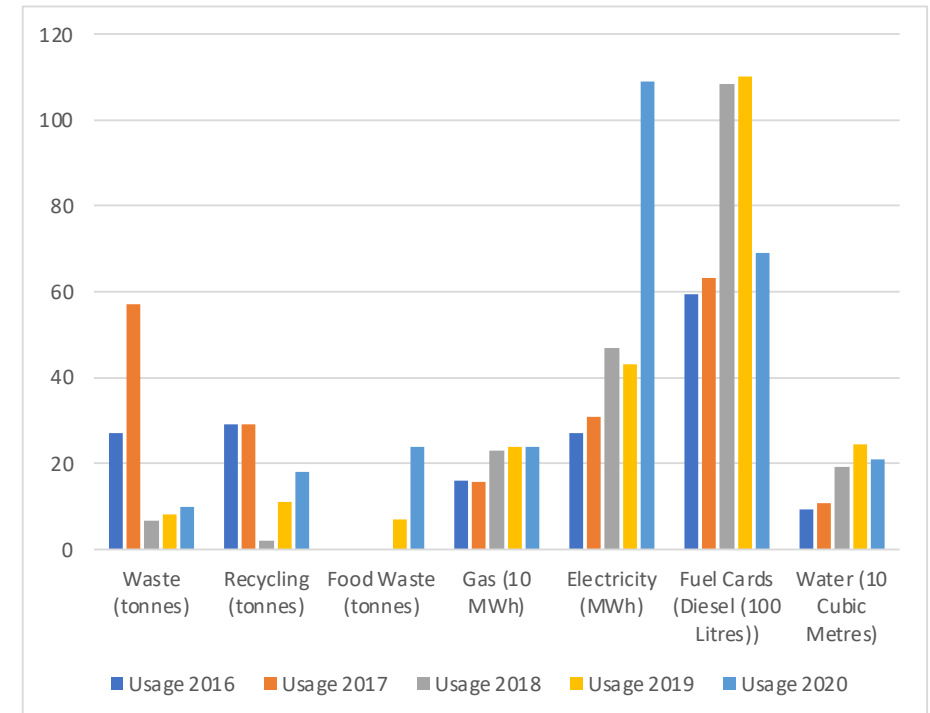
The Data - What we Used and how Much it Cost

As we have included data from the cafes in addition to the roastery it is hard to directly compare with other years where only the roastery usage was counted. The impacts of COVID can clearly be seen in the dramatic reduction in diesel fuel with our sales staff off the road, also in the reduction in water consumption due to some office staff being furloughed for part of the year.

Despite the hospitality sector shutting down/being restricted for much of the year we continued to roast coffee, with our website sales increasing, which is reflected in the gas consumption remaining the same.

Waste and recycling have been steadily increasing over the past 3 years most of our food waste is coffee chaff from the coffee roasting process. We are hoping to find an onsite processing solution for this over the next year, keep up to date via our journal for exciting developments in how we process and recycle our waste.

Changes in usage from 2016 to 2020



A Closer Look at Waste and Recycling

2020 was the first full year that all our coffee chaff, grounds and food waste were collected as food waste rather than going in the general waste. Explaining the significant rise in food waste disposal in 2020.

The Waste Hierarchy



Overall our recycling rate is high, converting from disposal to recycling has moved us up the waste hierarchy, to improve sustainability we want to take steps to move up the hierarchy, instead of recycling we want to re-use or prevent.

| Waste Type | Tonnes | Tonnes/£1m Turnover | tCO2e |
|---------------|--------|---------------------|-------|
| General waste | 10.03 | 2 | 0.2 |
| Food waste | 24.20 | 4.8 | 0.5 |
| Recycling | 18.34 | 3.6 | 0.4 |
| Total | 52.57 | 10.5 | 1.1 |

| Site | Recycling rate |
|-----------------|----------------|
| The Roastery | 83% |
| Scoresby Street | 71% |
| Charlotte Road | 77% |
| Harbour Head | 41% |
| The Warehouse | 85% |

Recycling rates vary across our sites depending on what collections are available in the area. This data highlights that Harbour Head is a site we need to work on improving.

Overall recycling rate: 81%

A New Way to Reduce Food Waste

We rolled out “Too Good to Go” in our London cafés, this has proved very successful as shown in the data below. We hope to expand this across all our cafes in 2021. We made a profit of £528 which we have donated to the homeless charity Shelter.

- 445 magic bags saved
- 445kg of food that did not end up in landfill
- 1,112kg of CO₂e saved

In 2020 we sent thousands of our bags to First Mile for proper recycling via collection points in our cafes and the roastery.

Two pallets full of coffee sacks were sent to Ellis Jute where they were recycled into carpet underlay. They can also be bought in our shops for a donation to Crisis.

toogoodtogo.org



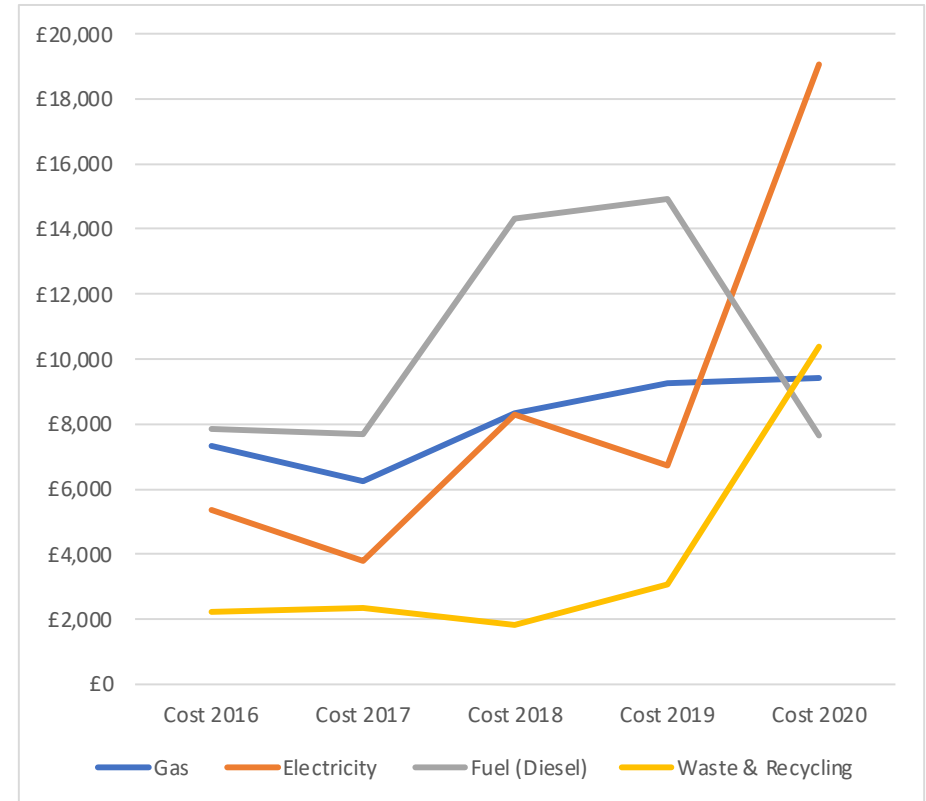
Changes in Spend

Generally, reported costs have increased due to including our 4 cafes in the 2020 data.

The most significant drop can be seen in the Diesel costs, inevitably this will rise again in 2021 as our wholesale managers and trainers get back on the road visiting customers. We hope that 2019 can be seen as the peak of our Diesel use as we aim to conduct more meetings virtually and gradually convert our fleet of vehicles to hybrid and electric.

In our new roastery we have installed 12.8kW of solar PV which should produce 13MWh each year, around a quarter of our current consumption at The Roastery.

Cost increases are seen in our waste, recycling, and food waste. A large proportion of our recycling is cardboard we need to carry out further research into where this is all coming from and how we can reduce or reuse it rather than sending it for recycling.



| | 2016 | 2017 | 2018 | 2019 | 2020 |
|---------------------|--------|--------|---------|---------|---------|
| Gas | £7,340 | £6,242 | £8,314 | £9,248 | £9,420 |
| Electricity | £5,377 | £3,803 | £8,290 | £6,726 | £19,038 |
| Fuel (Diesel) | £7,859 | £7,691 | £14,330 | £14,906 | £7,658 |
| Waste and Recycling | £2,209 | £2,334 | £1,835 | £3,063 | £10,395 |

Targets & Aims – The Journey to Net Zero

By 2030 Origin aim to be Net Zero, we will achieve this by setting ambitious targets each year to reduce our emissions. In 2030, any residual emissions that are unavoidable will be appropriately offset. We feel it is important to do what we can to reduce our impact before offsetting.

Did we Meet our 2019 Aims?

| Target Aim from 2019 Report | What Have we Achieved? |
|--|--|
| Record flights taken | COVID19 put a stop to air travel in 2020. |
| Install Gas monitoring software | Still a work in progress due to roastery relocation. |
| Reduce general waste | Achieved a 15% reduction in General waste compared to 2019. |
| Evaluate environmental credentials of suppliers | See supplier info on next page. |
| Replace diesel vehicles with electric/hybrid | In 2020 we replaced 4 diesel vehicles. |
| Switch to recyclable coffee cups and bags as soon as practical | In 2020 we switched our takeaway cups to Decent Packaging – see supplier information on page 18. |
| Reduce tCO ₂ e per FTE by 10% | We achieved a 15% drop at The Roastery. |
| Reduce tCO ₂ e per £1 million turnover by 10% | This increased by 25%, mainly due to Covid reducing turnover but operational CO ₂ e remaining the same. |

Aims and Actions for 2021:

- Produce over 25% of electricity consumed at the Roastery from onsite Solar PV
- Increase recycling rate across all sites by 5%, from 81% to 86%
- Eliminate the need for fossil fuels for our heating and hot water by installing a heat pump at our new roastery
- Reduce our waste per £1million turnover in 2021 by 10% compared 2020 to 9,46 tonnes
- Reduce cardboard box use by 10% compared to tonnes of coffee roasted. In 2020 we used 0.84 tonnes of cardboard for every tonne of coffee we roasted, we hope to reduce this to 0.76 in 2021
- Introduce staff volunteering activities
- Reduce tCO₂e per FTE by 10% to 4.9 tCO₂e per FTE
- Reduce tCO₂e per £1m turnover by 10% to 45 tCO₂e per £1m turnover
- Record employee commuting and air travel emissions
- Ensure all suppliers meet (or are working towards) our strict environmental protocols
- Continue opting for hybrid/electric vehicles, do not purchase or lease any diesel cars
- Introduce compostable coffee bags to replace our current plastic/aluminum bags
- All of these aims and actions will work towards improving our B Corp score from 81.9 to 120



Long Term Emissions Reduction Plan: Road Map to 2030

We aim to be Net Zero by 2030. We have put in place the following targets, which will be reviewed annually, in the hope that we can greatly reduce the unavoidable emissions before offsetting:

1. 100% of packaging we send out to be recyclable or compostable
2. No single use plastic items to be sold
3. Reduce diesel fuel use in company owned vehicles by 50% on 2020 levels to 3,500 litres by switching to Electric Vehicles
4. Reduce cardboard box use by 20% compared to tonnes of coffee roasted. Currently, we use 0.84 tonnes of cardboard for every tonne of coffee we roasted
5. At our Roastery (the area we have most control over), reduce tCO₂e per £1million turnover by 20% of 2020 levels to 12 tCO₂e per £1million.
6. Reduce non recyclable waste to 5t CO₂e per £1million turnover (currently 9.46t CO₂e).

Our Suppliers



Ellis Jute: Our used coffee sacks are sent to Ellis Jute “Once recycled, jute fibre has many uses, especially in construction and agriculture, helping with the control of soil erosion, weed control and seed protection. Uses for recycled jute include felt, under-felt, carpet backing, hanging basket liner and fertiliser”



Decent Packaging: A carbon Zero certified organisation, “Everything is simply made from plants”. Compostable waste from Decent is collected by First Mile and put in an Autoclave (to expedite the breaking down of the packaging materials) before going through the standard Anaerobic Digestion process which produces fertiliser and green energy.



Ecotricity: “Britain’s greenest energy company”. Ecotricity actively build new sources of green electricity rather than simply trading green certificates.



First Mile: A Zero to Landfill company who collect all our waste from our London sites and our coffee bags from Cornwall.



Huskee: Reusable coffee cups made from the coffee husk which is a by product in coffee bean production. They can also be recycled at the end of their life



Rio Nuevo: Source cocoa beans directly from small scale farmers in Ecuador to make their chocolate here in Cornwall.



Terracaps: A coffee capsule made from 96% renewable raw materials which are GMO, gluten-free and vegan. The capsules can be commercially composted.



Trink Dairy: We are fortunate in Cornwall to have grass fed cows producing high quality milk on our doorstep, Trink bottle their milk on site before delivering to our roastery and cafes, with total food miles of just 15 miles from cow to cup.



Appendix I: Statement of Verification

Statement of Verification

Verification provided to Origin Coffee Limited (The Roastery, Porthleven, TR13 9FJ)

16/08/2021

Verification Scope

Origin Coffee Limited (Origin Coffee) engaged with GEP Environmental Ltd (GEPEnv) to verify its Scope 1, Scope 2, and Scope 3 Greenhouse Gas (GHG) emissions assessment covering the company's operations, completed as part of their annual environmental reporting programme. Origin Coffee is responsible for the information within the GHG assessment and the calculation processes that have been followed. The responsibility of GEPEnv is to provide a conclusion as to whether the GHG assertions made are in accordance with the GHG Protocol.

Methodology

The verification was led by Iain Forsyth (Environmental Consultant), GEP Environmental Ltd. GEPEnv completed the review in accordance with ISO 14064 Part 3 (2019): *Greenhouse Gases: Specification with guidance for the verification and validation of greenhouse gas statements*. The work was undertaken to provide a limited level of assurance with respect to the GHG statements made by Origin Coffee.

GEPEnv believes that the review of the GHG inventory and associated evidence, provides a reasonable and fair basis for our conclusion. The defined materiality threshold was set at 5% of Origin Coffee's total GHG emissions inventory for the 2020 Financial Year (1st January – 31st December). The following GHG emissions sources account for >5% of total emissions and are within the scope of detailed data sampling the Verification:

- ✓ **Scope 1 (Direct GHG Emissions):** Natural Gas (Roastery)
- ✓ **Scope 2 (Energy Indirect GHG Emissions):** Electricity (Roastery, Penryn, Porthleven, Southwark, Shoreditch)
- ✓ **Scope 3 (Other Indirect GHG Emissions):** Shipping (import of coffee into UK), and cardboard boxes (embodied emissions)

The following GHG emission sources accounted for less than 5% of total GHG emissions and have been excluded from detailed sampling. Data validation and calculation spot-checks were carried out on the following datasets :

- ✗ **Scope 3 (Other Indirect GHG Emissions):** Road Haulage (transfer of coffee from port to Roastery), Waste disposal (general, recycling, food wastes), Water Supply & Treatment.

Assurance Opinion

Based on the results of our Verification process, GEP provides limited assurance of the GHG emissions assertion, **and found no evidence that the GHG emissions assertions:**

- are not materially correct.
- are not a fair representation of the GHG emissions data and information; and
- are not prepared in accordance with the GHG Protocol.

It is our opinion after detailed review of primary data and discussions with representatives involved in developing the reporting submission, that Origin Coffee has established appropriate systems for the collection, aggregation, and analysis of quantitative data for determination of GHG emissions for the stated period and boundaries.

-[continued on following page]-



Verified GHG Emissions Data

The following GHG emissions assessment completed by Origin Coffee for the period 1st January – 31st December 2020 is verified by GEPEnv to a **limited level of assurance**, consistent with the agreed scope, objectives, and criteria for the GHG verification.

100% of Origin Coffee’s Scope 1, Scope 2, and Scope 3 GHG emissions are verified as follows for the 2020 Financial Year:

| Origin Coffee GHG Emissions Footprint (1 st January – 31 st December 2020) | | | |
|---|---|---|---|
| Scope 1 GHG Emissions (tonnes CO ₂ e) | Scope 2 GHG Emissions (tonnes CO ₂ e) | Scope 3 GHG Emissions (tonnes CO ₂ e) | Total Scope 1 & Scope 2 GHG Emissions (tCO ₂ e) |
| 62.70 | 25.70 | 164.03 | 252.43 |

Iain Forsyth
Environmental Consultant
GEP Environmental Ltd



GEP Environmental Ltd

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