



EMISSIONS REPORT

1st Apr 2022 - 31st Mar 2023

Organisation: Small Beer Brew Co. Ltd

Location: Small Beer Brew Co. Ltd (Primary)

Export date: 31/03/2025

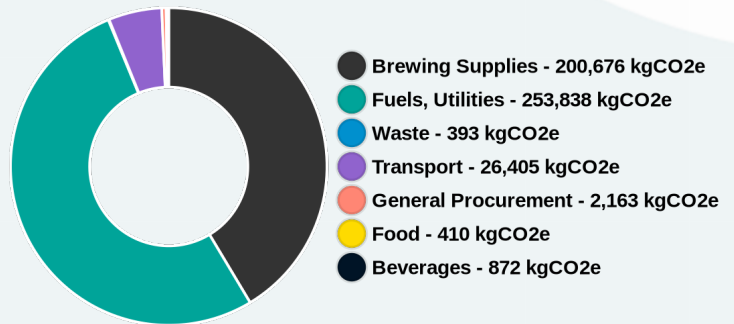
Total Footprint

379,990.37 kgCO₂e

Intensity Values

Metric	Emissions Intensity
tCO ₂ e per £1,000	333.287
tCO ₂ e per FTE	27.142
kgCO ₂ e per litre	1.727

Emissions breakdown (kgCO₂e)



On the Road to Net Zero - Certification

To be certified On the Road to Net Zero businesses are required to conform with the criteria of the relevant net zero sector protocol, complete key tasks and make climate commitments:



Complete an annual footprint

Complete our annual carbon footprint calculation, in accordance with the requirements of the relevant Net Zero protocol.



Compensate for residual emissions

Once we reach the long-term reduction target, we commit to purchase and retire certified carbon offsets equivalent to our remaining emissions.



Agree to publish GHG data

To demonstrate our commitment to transparency and advocacy, we will publish each year the validated annual footprint, targets, action taken and progress towards reaching net zero.



Small Beer Brew Co. Ltd has met the necessary standards and commitments & is certified "On the Road to Net Zero"



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Commit to ambitious targets (Breweries)

Take action to achieve the following ambitious GHG reduction targets in order to restrict warming to less than 1.5°C:



Near term

At least 25% (**31,498.99 KgCO₂e**) reduction of our scope 1 & 2 emissions within 5 years.

Near term

EITHER: At least 15% (**38,099.16 KgCO₂e**) reduction of our scope 3 emissions within 5 years.

OR: Under 300 g CO₂e / litre product by 2030.

Long term

EITHER: At least 90% (**341,991.33 KgCO₂e**) reduction across all of our emissions, including scope 3, by 2050.

OR: Under 100 g CO₂e / litre product by 2050.



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Sector Reporting

This presentation aligns with the Net Zero Now sector protocol

Category	Subcategory	Subcategory Emissions (kgCO ₂ e)	% of Category Emissions	Total Category Emissions (kgCO ₂ e)	% of Total Emissions
Brewing Supplies	Brewery Supplies	200,676.25	100.00%	200,676.25	52.81%
Fuels, Utilities	Electricity - Location based	1,710.48	0.67%	253,838.33	66.80%
	Water Supply & Treatment	200.06	0.08%		
	Gas	251,848.30	99.22%		
	Accommodation	79.50	0.03%		
Waste	Waste	392.76	100.00%	392.76	0.10%
Transport	Owned Vehicles (Petrol, Diesel or Hybrid)	71.83	0.27%	26,405.15	6.95%
	Third Party Delivery of Sold Products	24,124.69	91.36%		
	Employee Commuting	2,020.65	7.65%		
	Business Travel	187.98	0.71%		
General Procurement	Electricals	6.71	0.31%	2,162.97	0.57%
	Plastics	47.11	2.18%		
	Clothing Fabrics and Laundry	18.74	0.87%		
	Cleaning and PPE	89.46	4.14%		
	Paper	108.87	5.03%		
	Ice (Delivered)	575.40	26.60%		
	IT Accessories	59.40	2.75%		
	Tableware and Other Bar Supplies	1,257.27	58.13%		
Food	Meat	289.47	70.61%	409.96	0.11%
	Miscellaneous	120.49	29.39%		
Beverages	Spirits etc.	50.16	5.75%	872.47	0.23%
	Soft Drinks	80.69	9.25%		
	Milks	435.00	49.86%		
	Coffee	306.50	35.13%		
	Tea	0.13	0.01%		



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Standardised Reporting

This presentation aligns with the GHG Protocol requirement for external reporting

Scope Category	Scope Subcategory	Scope Subcategory Emissions (kgCO ₂ e)	% of Category Emissions	Total Scope Emissions (kgCO ₂ e)	% of Total Emissions
Scope 1	Mobile Combustion (Vehicles)	71.83	0.06	125,995.98	33.16 %
	Static Combustion (Gas & Fuels)	125,924.15	99.94		
	Air Conditioning & Fire Suppressants (Refrigerant)	0.00	0.00		
Scope 2	Electricity - Location Based	0.00	*	0.00	0.00 %
Scope 3	Category 1 - Purchased Goods & Services	219,120.72	86.27	253,994.39	66.84 %
	Category 2 - Capital Goods	0.00	0.00		
	Category 3 - Fuel & Energy-Related Activities	23,092.01	9.09		
	Category 4 - Upstream Transportation & Distribution	0.00	0.00		
	Category 5 - Waste Generated in Operations	492.99	0.19		
	Category 6 - Business Travel	267.48	0.11		
	Category 7 - Employee Commuting	1,941.15	0.76		
	Category 8 - Upstream Leased Assets	0.00	0.00		
	Category 9 - Third Party Transport	9,080.05	3.57		
	Category 10 - Processing of Sold Products	0.00	0.00		
	Category 11 - Use of Sold Products	0.00	0.00		
	Category 12 - End-of-life Treatment of Sold Products	0.00	0.00		
	Category 13 - Downstream Leased Assets	0.00	0.00		
	Category 14 - Franchises	0.00	0.00		
	Category 15 - Investments	0.00	0.00		



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Suggested Reduction Activities

	Name	Description	Estimated Reductions (tCO ₂ e)
	Upgrade to double glazed windows	Poor insulation can lead to a lot of energy being wasted on heating a building where the heat is quickly lost. This is also expensive. Consider using energy efficient glazing, such as installing double or triple glazed windows and improving your insulation. If you do not own your building, consult the building manager to first seek permission, before investigating the building requirements of your building. You can then compare the energy efficiency and cost of insulation options. The more expensive options are often the options that will provide the most insulation, and therefore may be most cost effective in the long term.	73.65
	Shift production to mainly cans rather than bottles	Using cans rather than bottles can reduce your environmental impact as they are significantly easier to recycle and lighter to transport.	51.31
	Buy lighter weight bottles	Buying lighter-weight bottles will help reduce manufacturing and transportation emissions. Glass requires a lot of energy to be produced and is heavier than aluminium/steel cans to transport, so reducing this where possible improves packaging and delivery emission numbers.	29.32
	For local deliveries, consider using cycle couriers	For deliveries that are in your local area, consider using cycle couriers. Most cities have numerous providers available, visit Pedalme.co.uk to enquire further.	1.37
	Choose sustainable hotel options when travelling	Hotels contribute substantially to emissions, due to their HVAC systems and excessive consumption of food, water and electricity. When travelling, consider choosing hotels that are actively trying to reduce their resource consumption and reduce their emissions. You can find sustainable hotels by choosing from the Sustainable Hospitality Alliance's list of recognised hotels, all of which have committed to various sustainability goals. Booking.com also has a 'Travel Sustainable properties' filter when searching, all of which have been independently verified.	0.08
	Reduce your use of market sourced Co2	Capture the CO ₂ by-product produced during fermentation and use later in the brewing & packaging process. At the moment Carbon Capture units are hard to come by and install but this is rapidly changing so always investigate. Examples of companies which produce carbon capture units include Dalum, CiCi, and Vitalis.	0.07
	Switch to an electricity smart meter	If you are on a traditional electricity meter, consider switching to a smart meter. Smart meters provide a much more accurate report of your electricity consumption. Knowing how much energy you are using and when will help you to better understand how to save on electricity. In the UK, upgrading to a smart meter has no cost. If you do not own your building, consult the building manager to first seek permission.	0.06
	Switch to an electric fleet to reduce transportation emissions associated with deliveries from owned vehicles	Switch delivery fleet owned by the business from non-electric to electric. This can apply to all vehicle types (vans, motorbikes, cars etc.)	0.05



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	Name	Description	Estimated Reductions (tCO ₂ e)
	Nitrogen generator to replace CO2	Consider using a nitrogen generator instead of CO2 for brewing, packaging, and carbonating, which has a much smaller climate impact. Nitrogen makes the tank oxygen-free, reducing contamination and also is good for cleaning and pressurizing containers before filling.	0.05
	Reduce and measure water usage using water meters	Place water meters at key points with the office to identify leaks or unusual levels of usage.	0.03
	Reduce plastic packaging related emissions	Where you are still using plastic shrink-packaging or pack holders (6-pack rings etc), swap these out for cardboard alternatives which are not only more easily recycled but come with a lower emission factor.	0.02
	Consider using a keg rental system	With the support of dedicated companies, such as Konvoy, leasing kegs and/or using tracking devices can help reduce the number of kegs that need to be produced, prevents loss/theft of kegs and ensures a move towards maximum efficiency as kegs are used multiple times per year. This system can also support in reducing your delivery related emissions through efficient route planning as a service from the leasing company.	0.02
	Use rinse water for general cleaning	Any surplus water from brewing should be used for working space, taproom and brewery equipment cleaning.	0.02
	Buy cleaning solution concentrated & then dilute	Opting for concentrated cleaning solutions when making your purchase is a more sustainable choice as it results in reduced transportation impacts on the environment. Diluting when ready for use is a simple and quick process that will lead to similar results with reduced impact.	0.01
	Switch electricity to a 100% Renewable Tariff	Renewable Tariffs are one of the quickest ways to reduce your footprint, reducing 100% of emissions associated with electricity generation. We recommend Octopus Energy or Ecotricity as examples of renewable electricity companies to switch to.	0.00



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Methodology statement

The methodology for calculation of the GHG Inventory aligns with the **GHG Protocol Corporate Standard** and emissions factors are taken from Government issued or published and peer reviewed sources including: BEIS / UK Government, Poor and Nemecek, Ciel, Clune et al, Carbon Trust 2018, Agribalyse, Carbon Cloud, Global LCA Data Access, Open LCA nexus, IEA, Electricity Info.

The emissions reduction targets are based on the latest science and align with the ambition of the **Science Based Targets initiative**

For more information relating to methodology and criteria please see the relevant sector protocol here



Legal statement

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