



Our mission is to make sustainable brewing accessible to every brewery by transforming how they capture, analyse, report, and reduce their carbon footprint.



BrewAI



Why should breweries care about estimating their carbon footprint?

## 1 | Consumers Care



## 2 | Regulations Tighten



## 3 | Evaluation Matters



Drinkers are more conscious of sustainability:

- In 2024, **61% of beer drinkers** said that a brewery's sustainability practices directly influence their purchase choice.
- At a recent London beer festival, **58%** of visitors said they would consider paying up to **£0.50 more per pint** if it had a verified lower carbon footprint than similar alternatives.
- **70%** would like carbon footprint information displayed on labels or menus — ideally through a simple **traffic light system**.

New EU legislation is changing the game:

- Under the new **EU Corporate Sustainability Reporting Directive**, large companies must disclose their carbon footprint across Scopes 1, 2, and 3.
- That means **SME breweries aren't exempt**: if you sell to major retailers or distributors, you are part of their **Scope 3 emissions**.
- Some buyers are already requesting **verified carbon data** from their suppliers, and many others expect to do so increasingly over the coming year.

Energy costs remain high:

- With energy prices still around **60–80% above pre-2021 levels**, breweries are under pressure to cut costs wherever possible.
- Many invest in efficiency measures, which promise to cut energy use by **10–30%**, but every intervention carries a price tag.
- By tracking energy use before and after changes, breweries can **evaluate performance**, verifying whether these investments truly deliver the savings promised.

Sources: Food Manufacturer, 2024; Carbon Direct, 2025; ONS, 2024; ARU Brewery Consumer Survey, 2025; ARU Supply Chain Interviews, 2025



Why do most breweries not estimate their carbon footprint?

## It's a complex endeavour!

- **Limited in-house expertise**: few breweries have staff trained in carbon accounting or data management.
- **Time pressure**: day-to-day operations leave little capacity for detailed measurement and reporting.
- **Financial constraints**: external consultants and audits can be costly, making outsourcing unrealistic for smaller brewers.

## The Brewers' Viewpoints:

- "Our **energy prices went up** to about £12,500 a month, up from about £2,500. That killed us"
- "We've done little to limit our carbon use, **I wouldn't really know** where to start"
- "We always try to optimise, but **it's trial and error** with every bit of equipment"
- "The problem with sustainability is **not having the capital**, you're always chasing your tail"
- "The **auditing company** dangled the carrot — it was £1,500 a year — and then it turned out to be three times that price"

Sources: ARU Brewery Interviews, 2024



Can measuring carbon footprint be simple and cost-efficient?

### Automated Carbon Tracking

- We simplify carbon footprint analysis by automatically capturing and analysing **batch-specific** Scope 1 and Scope 2 emissions, reducing manual input, minimising errors, and saving valuable time.

### Sustainable Production Timing

- By predicting the **carbon intensity** of the electricity grid **24 hours in advance**, BrewAI helps breweries schedule production when power is cleanest, lowering their overall carbon footprint.

### Intervention Evaluation

- Using **time-series statistical models**, BrewAI helps breweries quantify the real **impact** of carbon-reduction interventions, turning sustainability actions into measurable results.



## Meet The Team



Dr Franziska Sohns



Dr Lewis Welsh



Mr Tom Stacey



Ms Marilia Kaliman

## Did you know?

In the UK, emissions from electricity generation can vary from **under 100 g CO<sub>2</sub>/kWh** during windy midday hours in the north to **over 350–400 g CO<sub>2</sub>/kWh** on calm evening peaks in the south.

### So, Timing matters!

Using energy when the grid is cleaner can significantly lower a brewery's carbon footprint.

Source: National Grid ESO Carbon Intensity API (2024), [carbonintensity.org.uk](http://carbonintensity.org.uk)



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