Worshipful Company of Tylers & Bricklayers

Baseline Sustainability Report

May 2025

Event Overview

T&Bs Christmas Carol Service and Dinner

12th December 2024

St Margaret Lothbury & Armourers Hall, London EC2

Objectives

Objective A

→ Assess the carbon impact of our event using valid data.

Objective B

→ Raise the consciousness of climate action amongst our membership & educate people as to the issues raised.

Objective C

→ Support the wider livery movement (via the Livery Climate Action Group) in raising awareness & sharing data and process with others

trace
by isla.

Emissions and Waste How did we do?

Total Attendees

96
In Person

0
Virtual

Carbon Footprint

2.73 tCO2e
Total carbon footprint

28.46 kgCO2e
Average carbon footprint per attendee

Waste Footprint

0.16 tonnes
Total Waste Footprint

1.63 kg
Average waste per attendee

Total waste	Waste per attendee	Total Waste emissions	Contribution to overall emissions	Waste emissions per attendee
0.16 Tonnes	**1.63** kgs	**0.03** tCO2e	**0.9%**	**0.27** kgCO2e

What does this mean?

This is the equivalent of

🌿 CO2 equivalent from 1 cars on the road for one year

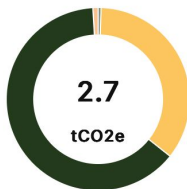🌿 The carbon sequestered by 13 tree seedlings grown for 10 years

*Some of the outcomes in this report are based on estimated data.
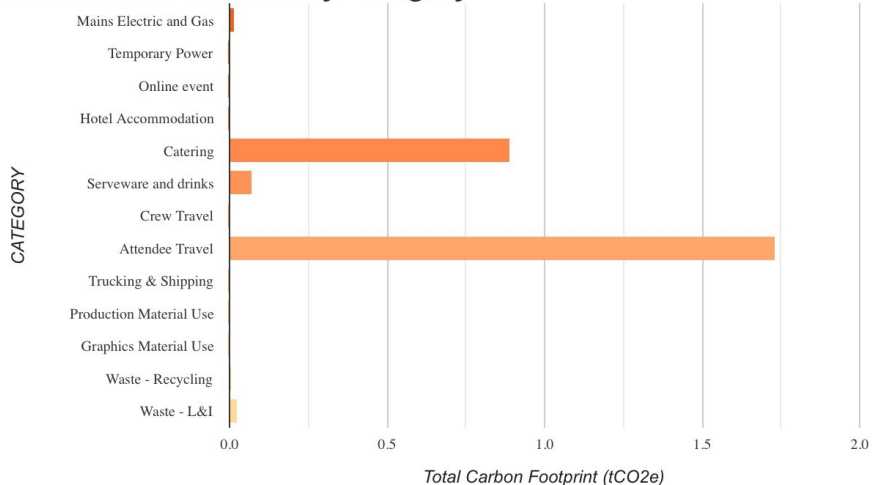This is clearly marked and all data was collected to achieve the best quality available

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Emissions cont...

Carbon Footprint by Category

- Energy — 0.5%
- Catering — 35.2%
- Travel — 63.4%
- Production — 0.0%
- Waste — 0.9%

2.7 tCO2e

Emissions breakdown by category

CATEGORY	Total Carbon Footprint (tCO2e)
Mains Electric and Gas	
Temporary Power	
Online event	
Hotel Accommodation	
Catering	
Serveware and drinks	
Crew Travel	
Attendee Travel	
Trucking & Shipping	
Production Material Use	
Graphics Material Use	
Waste - Recycling	
Waste - L&I	

Scope 1	Scope 2	Scope 3
0.01 tCO2e	0.00 tCO2e	2.72 tCO2e

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In more detail...

Energy

Total Energy emissions

0.01 tCO2e

Contribution to overall emissions

0.5%

Energy emissions per attendee

0.15 kgCO2e

Breakdown of Energy categories

- Mains Sources
- Temporary Power
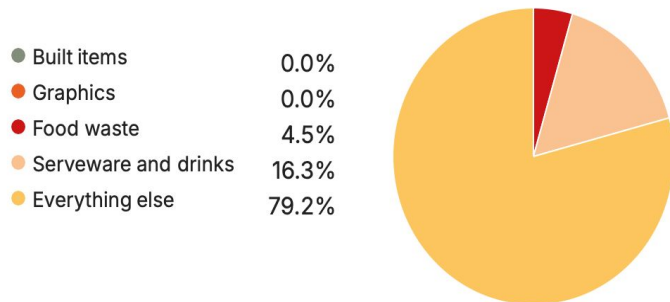- Streaming elements
- Energy use in hotel accommodation

Findings & Considerations

- *Cooking and heating was delivered using gas and so was the highest value.*

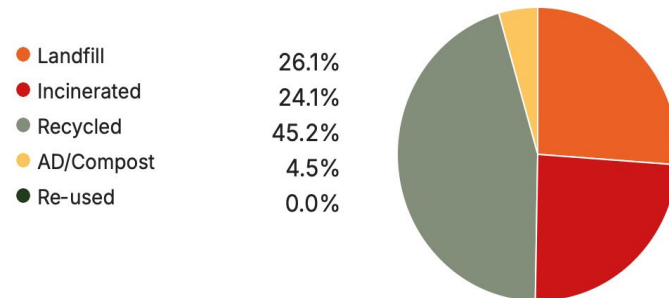- *Lighting at the Hall via renewable electricity sources and LED Lighting – no data recorded*

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Waste

Where did waste come from? (by weight)

- Built items — 0.0%
- Graphics — 0.0%
- Food waste — 4.5%
- Serveware and drinks — 16.3%
- Everything else — 79.2%

Where did waste go? (by weight)

- Landfill — 26.1%
- Incinerated — 24.1%
- Recycled — 45.2%
- AD/Compost — 4.5%
- Re-used — 0.0%

Total waste	Waste per attendee	Total Waste emissions	Contribution to overall emissions	Waste emissions per attendee
0.16 Tonnes	**1.63** kgs	**0.03** tCO2e	**0.9%**	**0.27** kgCO2e

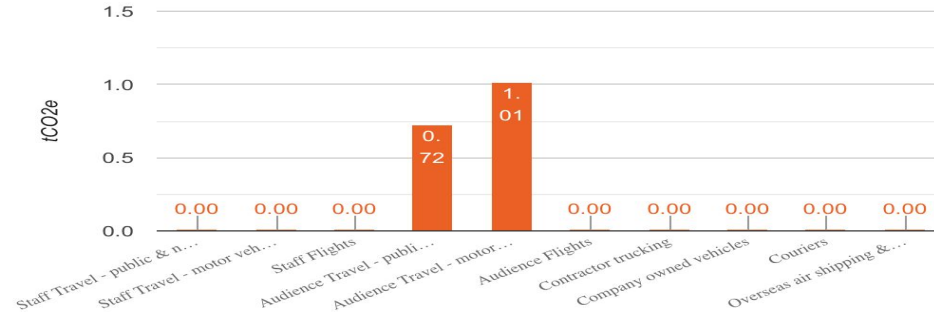Worshipful Company of
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Travel & Transport

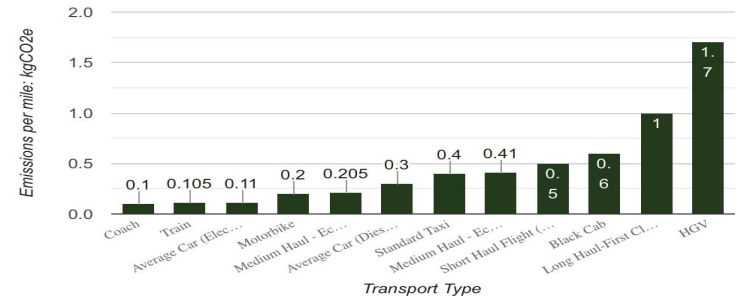Findings & Considerations

- *Most attendees used Public Transport.*

Emissions by transport type

Emissions per mile for different transport types

This graph shows the emissions of different transport choices to help when planning transport

Travel and Transport emissions

1.73 tCO2e

Contribution to overall emissions

71.6%

Travel emissions per attendee

18.04 kgCO2e

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Food & Beverage

Food Type	Emissions (tCO2e)	Portions	Emissions per 100g (kgCO2e)
Beef/Lamb	0.65	72	2.18
Other Meat, Fish and Seafood	0.17	144	0.48
Vegetarian	0.06	132	0.32
Plant based/Vegan	0.00	12	0.11

Drink Choice	Emissions (tCO2e)	Quantity	Emissions per drink (kgCO2e)
Soft drinks	0.0016	2	0.79
Wine	0.0698	49	1.42
Water	0.0000	0	0.00
Beer/Cider	0.0000	0	0.00
Tea/Coffee	0.0000	0	0.00
Spirits	0.0000	0	0.00

Food_Drink-Catering_Emission_Stats

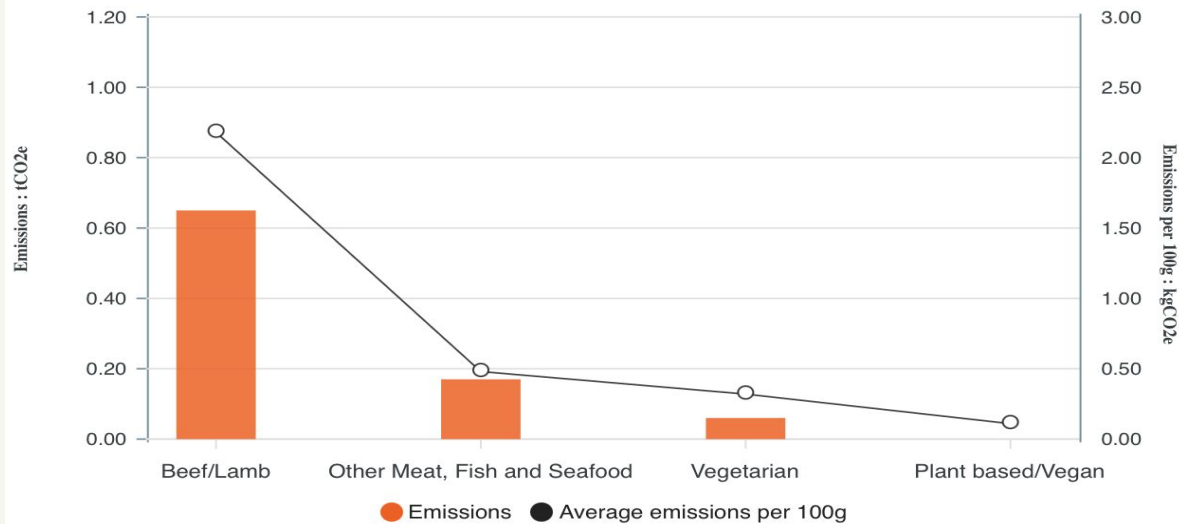|		
Total F&B emissions 0.96 tCO2e	**Contribution to overall emissions** 35.2%	**F&B emissions per attendee** 10.01 kgCO2e
Total Food emissions 0.89 tCO2e	**Total Beverages emissions** 0.07 tCO2e	**Total Serveware emissions** 0.00 tCO2e

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Food & Beverage

Emissions by meal type and per 100g

Findings & Considerations
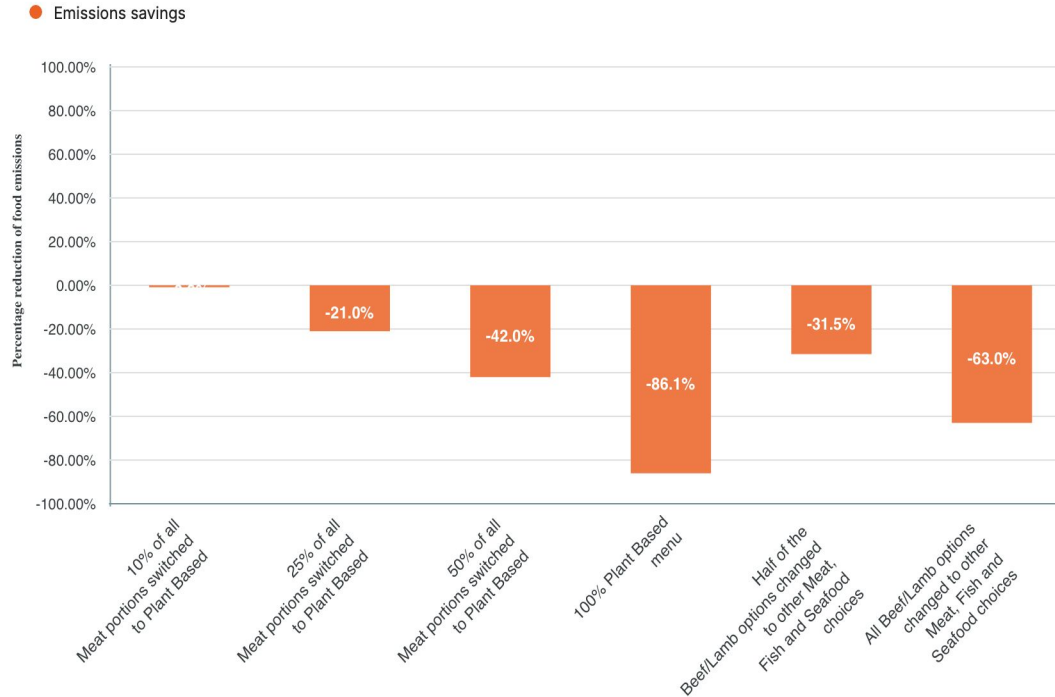
Data provided to us by Cook & Butler

Whilst only 96 people attended there were 120 covers & relatively little food waste..

Roughly measured on the basis of 60% beef, 30% Fish & other meat and 10% Vegetarian/Vegan

Food & Beverage

Where can we make savings?

Reducing emissions from food choices

This graph shows the emissions savings you could make with different menu choices

● Emissions savings

Menu choice	Emissions savings
10% of all Meat portions switched to Plant Based	-0.0% (approx)
25% of all Meat portions switched to Plant Based	-21.0%
50% of all Meat portions switched to Plant Based	-42.0%
100% Plant Based menu	-86.1%
Half of the Beef/Lamb options changed to other Meat, Fish and Seafood choices	-31.5%
All Beef/Lamb options changed to other Meat, Fish and Seafood choices	-63.0%

Percentage reduction of food emissions

Recommendations

Carbon emissions reductions

Here is a collated list of all of the reduction tips for each core pillar. We have estimated the potential carbon emissions saving if each tip is implemented to give you an idea of the total reduced footprint that may be possible for this event by making a few key changes.

However, these tips just focus on your biggest sources of emissions in each area, and many more reductions could be made. Check out proseed, for best practice guidance on how to reduce your carbon footprint across your events.

Area	Change	Reduction (tCO2e)	Reduction (%)
Energy	Reduce gas use by up to 10% by monitoring temperatures at your venue more closely, keeping doors closed, or using more energy efficient buildings.	0.001	0.05%
Catering	Provide 100% plant based catering for staff and audience	0.766	28.02%
Travel and Transport	Your biggest cause of road transport emissions is audience travel, so you could aim to rescue this by a third by encouraging guests to car share or use public transport through information or incentives.	0.333	12.18%
Overall reduction	If you do all of the above	1.1	40.25%

Total emissions

2.73 tCO2e

Emissions could be reduced to:

1.63 tCO2e

Total waste

0.16 Tonnes

Waste could be reduced to:

0.12 Tonnes

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Here's why it matters…

- Demonstrates leadership and responsibility
  - As a livery company, we have a duty to uphold craftsmanship, tradition, and sustainability in order to protect future generations
  - Leading by example encourages other organisations to take action
- Reducing environmental impact
- Aligning with the LCAG mission
- Enhancing reputation and influence
  - Especially, attracting younger members
- Cost savings and efficiency
- A small action - a big impact
  - Every step towards a lower carbon impact contributes to a larger cultural shift. Hope and change come from collective action - when we measure, we can improve

Climate Action Plan

- Shift to more sustainable catering:
  - Continue with plant-based options and increase take up / greater prominence to plant-based options
  - Choose lower carbon options ie chicken/fish
  - Work with caterers to source seasonal, local, and lower-carbon ingredients
  - Reduce food waste by planning portion sizes carefully and donating surplus food where possible
  - Highlight the benefits of plant-based options to members - health, quality, sustainability
- Strengthen carbon-auditing and reporting
  - Make event carbon auditing standard practice to track progress over time
  - Share findings transparently with members to build engagement and accountability

cont…..

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Climate Action Plan

- Spread the word:
  - Share findings from December 2024 audit and future audits
  - Share T&B Climate Action Plan with members when approved by the Court
  - Educate members gently on:
    - the climate impact of food and travel choices
    - why individual choices and action are important
    - the need for adaptation and building resilience in the face of climate impacts
- Encourage a culture shift by celebrating sustainable choices within the LIvery
- Set reduction targets for transport and food-related emissions
- When selecting venues, consider energy efficiency of hall
- Collaborate with the LCAG
  - Share insights with the LCAG to inspire broader action especially on food

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