

IMPACT OF FOOD AND BEVERAGE

Menu Carbon Emissions per Drinks serving [1] Coffee with Oat Milk (Vg) 136 gCO₂e Coffee with Cow's Milk (Vg) 440 gCO,e Cakes 6x Beetroots Chocolate brownie (Vg) 70 gCO₂e = The co2e equivalent of Chocolate brownie (V) 200 gCO₂e Snacks 100g small chunk of cheddar [2] Polenta Chips (Vg) 250 gCO₂e Vegetable sausage roll (V) 520 gCO₂e Pork sausage roll 860 gCO₂e Lunches Hummus and roasted vegetable foccaccia (Vg) 340 gCO₃e Beetroot and walnut salad (Vg) 430 gCO₂e Bean burger and Chips (Vg) 630 gCO₂e Pasta salad (V) 420 gCO₃e Courgette quiche (V) 550 gCO₂e Veggie burger and Chips (V) 770 gCO₃e Beef Burger and chips 5,950 gCO₂e

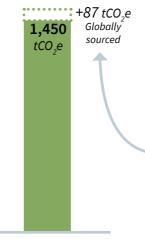


Impact of menu options for a cafe

Below is an estimate of the carbon emissions associated with a typical heritage site café, based on 200,000 servings per year (550 visitors to the site per day and 300 operational days per year). This assumes locally sourced ingredients.

+9 tCO₂e

Globally



Local vs Global

A large proportion of heritage sites offer some sort of Food and Beverage (F&B) offer and the menu options that are offered can have a **significant impact on carbon emissions.** Here we show the impact of three different

menu options including a Meat, Vegetarian and Vegan based menu showing the potential impacts of increasing

the vegan and vegetarian options available.

Context

Whilst the emissions associated with the transport of food varies from product to product (mainly depending on its country of origin and its shelf life, determining the travel mode), these typically only represent a small proportion of the footprint of overall food emissions. However on average, emissions from globally-sourced food are approximately 6% higher than the equivalent locallysourced food [3].

Vegan

tCO e

Lunch **Hummus and Roasted** Vegetable Foccaccia

Snack Polenta Chips Drink Coffee with Oat Milk

Vegetarian

350

tCO_e

+21 tCO_.e

Globally

sourced

Vegetable Burger and Chips Snack Vegetarian Sausage Roll Drink

Coffee with Cow's Milk

Meat

Beef Burger and Chips Snack Pork Sausage Roll Drink Coffee with Cow's Milk

How F&B providers can influence carbon

- 1. Encourage increased consumption of vegan and vegetarian food and drink and reduced consumption of meat and dairy, e.g. through ordering of menus, or communicating carbon benefits.
- 2. Increase the proportion of locally-sourced food and drink, compared to globally-sourced.
- Consider the farms and land use changes (i.e. avoid areas of the world where farming is contributing to deforestation.)

References

- My Emissions Ltd. (2023) 'Free food carbon footprint calculator'. Available at: https://myemissions.green food-carbon-footprint-calculator/ (Accessed: 1-15 March 2024).
- 2. Berners-Lee, M. (2020) How Bad Are Bananas?: The
- 3. Sandstrom, V., Valin, H. and Krisztin, T. et al. (2018) 'The role of trade in the greenhouse gas footprints of EU diets', Global Food Security, 19, 48-55. Available at: https://doi.org/10.1016/j.gfs.2018.08.007 (Accessed: 1-15 March 2024).