

We are a

Low Carbon Workspace

Urban Front

received a Low Carbon Workspaces grant to install a Waste Wood Burner, reducing their carbon footprint by **22.2 tonnes CO₂e / year***

**...that's the weight
Of a Whale Shark!***

Daniel Cope

Low Carbon Workspaces
Programme Manager

May 2023

* Savings methodology on the reverse of this certificate

www.lowcarbonworkspaces.co.uk

PRINT ME DOUBLE-SIDED AND PUT ME ON THE WALL!

How were heating savings calculated?

The overall reduction in energy usage achieved through the project was calculated by identifying; the saving in gas used for heating, the saving in waste wood diverted from being put into landfill, and the quantity of waste wood to be used in the new wood burner. The energy savings and increases were converted to greenhouse gas emissions savings and increases using the respective carbon conversion figures for gas, waste wood saved from landfill and burned wood as published by the Government at the date of project installation (April 2023).

	Gas Heating	Wood Waste	Wood Burned
Pre-installation usage	44,061 kWh	18.156 tonnes	0 tonnes
Post-installation usage	0 kWh	0 tonnes	18.156 tonnes
Annual saving	44,061 kWh	18.156 tonnes	-18.156 tonnes

Carbon saving (Carbon conversion for natural gas in 2022-23) = 0.18254 kg CO₂e / kWh

Carbon saving (Carbon conversion for saved wood in 2022-23) = 828.01354 kg CO₂e / kWh

Carbon saving (Carbon conversion for burned wood in 2022-23) = 50.55459 kg CO₂e / kWh

Annual saving = 22.158 tonnes CO₂e

*A Whale Shark typically weighs 18.7 tonnes!

The carbon conversion figure used to calculate carbon outputs for this project have been based upon the date of installation. For reference, our programme also requires us to apply 2017/18 BEIS CO₂e carbon conversion rates; $((0.18416 \times 44,061) + (819.13027 \times 18.156) - (59.45671 \times 18.156))/1000 = 21.907$ tonnes CO₂e. Whilst the methodology used should provide a realistic indication of the CO₂e reduction achieved through the stated project, the actual CO₂e reduction may differ due to variables such as staff behaviour and equipment operating efficiency. Note that kWh figures displayed above have been rounded to the nearest whole number; calculations made to obtain final carbon saving therefore used slightly different figures to those above. Neither Ngage Solutions Ltd nor Buckinghamshire Business First can be held responsible for any actions taken or loss incurred based on the use of the information provided. This certificate is intended for use by the named organisation. It should not be distributed or copied, in part or in full, without prior written consent from Ngage Solutions Ltd.