@LCW_ERDF

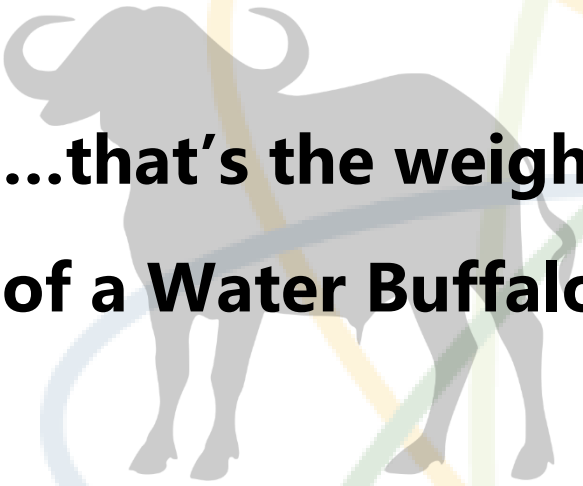
We're a

Low Carbon Workspace

Stourbridge Automotives Ltd

received a Low Carbon Workspaces grant to install LED lighting and hand dryers, reducing their carbon footprint by

789 kg CO_2e / year*



...that's the weight of a Water Buffalo!*

Daniel Cope

Low Carbon Workspaces Programme Manager

November 2019

* Savings methodology on the reverse of this certificate

www.lowcarbonworkspaces.co.uk

Low Carbon Workspaces

Grants to reduce business energy costs

Delivered by: ngage

Funded by: European Union, European Regional Development Fund

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

How were lighting savings calculated?

The reduction in energy usage achieved through the project was calculated by multiplying the difference in wattage between the existing lighting and the replacement LED lighting by hours of operation, on an area by area basis. The energy saving was converted to a greenhouse gas emissions saving using the carbon conversion figure for UK grid supplied electricity, as published by the Government at the date of project installation (September, 2019).

Annual lighting electricity usage:

Pre-installation = 5,405 kWh

Post-installation = 2,457 kWh

Annual electricity saving = 2,947 kWh

Carbon saving:

Carbon conversion UK grid electricity (2019-20) = 0.25560 kg CO_2e / kWh

Annual saving = 753 kg CO_2e

How were hand dryer savings calculated?

The reduction in energy usage achieved through the project was found by calculating the reduced mass of paper towels sent to landfill, and the extra kWh of electricity used to power the hand dryers. The energy saving was converted to a greenhouse gas emissions saving using the carbon conversion figure for UK grid supplied electricity, and paper sent to landfill as published by the Government at the date of project installation (September, 2019).

Annual hand dryer electricity usage:

Pre-installation = 0 kWh

Post-installation = -11 kWh

Annual electricity saving = - 11 kWh

Paper towels not sent to landfill = 37 kg

Carbon saving:

Carbon conversion UK grid electricity (2019-20) = 0.25560 kg CO_2e / kWh

Carbon conversion UK paper to landfill (2019-20) = 1.04188 kg CO_2e / kg

Annual saving = 39 – 3 = 36 kg CO_2e

*A Water Buffalo typically weighs 725 kg!