

Improving your Resource Efficiency **Case Study**

BEP Surface Technologies, Bury

Bury-based BEP Surface Technologies Ltd has achieved annual savings of £72,300 and saved hundreds of tonnes of CO₂e, by improving its energy and process efficiency.

The company was founded in 1970 as a precision engineering and surface technology business, specialising in applying finishes to commercial turning, grinding, plating and surfacing products and components.

As an SME manufacturer located in Radcliffe, it has received free support from local ENWORKS advisers based at Groundwork Oldham and Rochdale, to reduce its costs and improve its environmental performance.



BEP Surface Technologies has already achieved annual savings of £21,600, which are accruing year-on-year, with **£72,300** saved to date.

Processes

Low-cost improvement projects have included fitting a 60-Watt air pump to replace a large compressor that was being used for air agitation in the factory.

The single pump cost £130 to install but it has significantly reduced both maintenance and operating costs, saving £5,200 and 52 tonnes of carbon dioxide equivalent (CO₂e) a year.

This will also reduce the site's annual water bills by reducing mains consumption.

Provided by _____

ENWORKS

Switching off

£1,400 a year has been saved by implementing a switch-off policy for a 2 kiloWatt (kW) heater that is used for melting the glue used for stone polishing processes.

Previously the machine was left on 24 hours a day and seven days a week, throughout the year, but it was only being used for about two hours a week. This simple behavioural change has helped the company to save over eight tonnes of CO₂e a year.

Insulation

Repairing and replacing the insulating lagging around a 6kW immersion heater for the site washrooms, has saved £1,600 a year from an initial investment of £100, and brought annual savings of 9.5 tonnes of CO₂e and 17,500 kiloWatt-hours (kWh) of energy.

Energy monitoring

BEP Surface Technologies has also implemented a thorough energy monitoring programme across the site, to identify normal operational consumption patterns and then set realistic efficiency targets for energy savings.

This has helped to save over £6,700 a year and 40 tonnes of CO₂e, from an investment of just £1,500. Altogether, BEP Surface Technologies has achieved CO₂e savings of 710 tonnes to date.

In the pipeline

A further £10,800 of potential annual savings is currently being targeted, following recommendations made by the company's ENWORKS adviser.

These include opportunities to install infrared sensors in office spaces, high-speed roller doors and optical sensors in the loading bay, to minimise heat loss and optimise energy consumption. They could save at least £800 on annual energy bills and further reduce the company's carbon footprint.

'Smarter Driver' training has also been recommended by ENWORKS and could save the business another £1,700 and four tonnes of CO₂e a year, by showing workers how to drive more fuel efficiently.

ENWORKS resource efficiency support is available FREE of charge to North West businesses in any sector, including SMEs. Visit www.getsupport.enworks.com

Contact us at: **0161 237 4181** or email: info@enworks.com

To find out about the full range of business support available nationally, contact BusinessLink: www.businesslink.gov.uk or call 0845 600 9006

Funded by _____



Provided by _____



ENWORKS