

# Case Study: Smart Energy Monitoring Funding PYM & Wildsmith (Metal Finishers) Ltd



**Smart Energy Monitoring** review was undertaken for Pym & Wildsmith (Metal Finishers) Ltd, Bramshall Industrial Estate, Bramshall, Uttoxeter, Staffordshire, ST14 8TD in presence of Craig Taylor, Managing Director, and Stephen Alcock, Environmental, Health and Safety Manager.

Annual electricity consumption is 1,031,205 kWh and annual electricity cost ~£171,800.

The Half hourly data analysis was completed for an year of electricity consumption. The project temporarily installed 20 sub-meters across identified operational processes such as compressor feeds, metal spray, rectifiers and blast machines to monitor and measure the energy consumption and performance of these equipment's.

Sben provided a 50% grant of £2000 (including VAT) towards Smart Energy Monitoring and 50% was match funded by PYM Wildsmith.

*Stephen Alcock, EHSE Manager said, "The funding provided valuable information regarding equipment use, power loadings both daily and weekly. The data presented will also become a valuable part of our costings process in relation to energy used. We have contacted our compressor supplier who will be able to 'tweak' the on and off load parameters on our compressors to save on electricity usage and wear and tear of compressor components. We are looking into real time energy monitoring"*

## Outcomes

The sub-metering survey highlighted potential out of hours consumption from compressors and rectifiers, estimated at 135,000 kWh. This is equivalent to 26.1 tCO<sub>2</sub>e and £22,950 per year.

The outcome report informed PYM Wildsmith that the out of hours consumption can be reduced to at least 50%, with massive savings of 13 tCO<sub>2</sub>e and £11,475 on electricity bills annually through recommendations below.

- Undertake detailed review of operational activities to ensure efficient productive consumption.
- Create end of day routines for operators to ensure that a consistent approach is undertaken to closing equipment.
- Investigate the potential for real time energy monitoring with programmed alerts and alarms that will aid the management team in the reduction of energy consumption

**Smart Energy Monitoring funding** is available to eligible Staffordshire businesses until April 2023. Apply now [Smart Energy Monitoring - Staffordshire Business & Environment Network \(sben.co.uk\)](https://www.sben.co.uk). Contact us at [sben@staffordshire.gov.uk](mailto:sben@staffordshire.gov.uk)