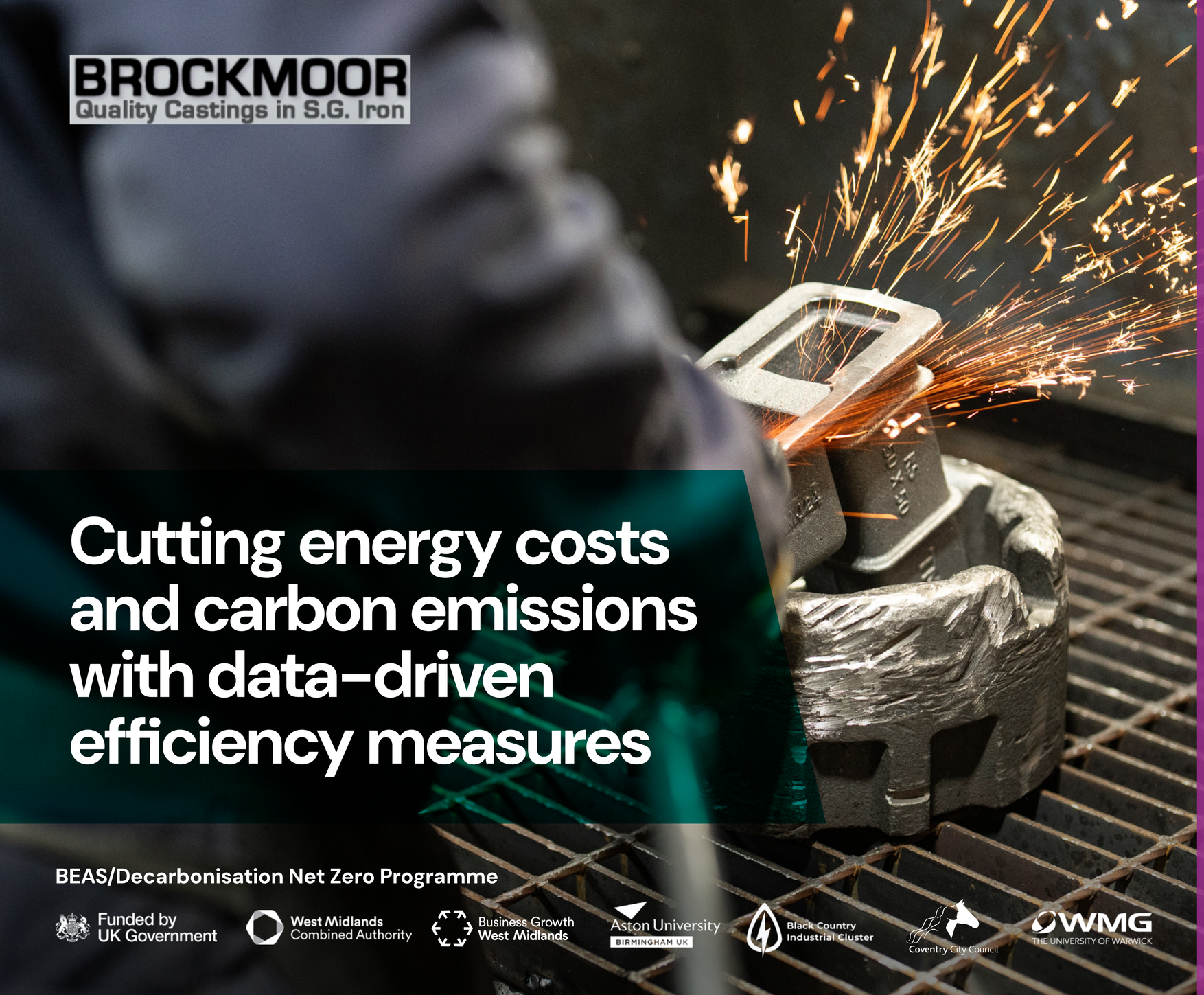


BROCKMOOR
Quality Castings in S.G. Iron

Cutting energy costs and carbon emissions with data-driven efficiency measures

BEAS/Decarbonisation Net Zero Programme

Funded by UK Government
West Midlands Combined Authority
Business Growth West Midlands
Aston University BIRMINGHAM UK
Black Country Industrial Cluster
Coventry City Council
WMG THE UNIVERSITY OF WARWICK

£70,730
Estimated annual saving*
(£ exc. VAT/yr)

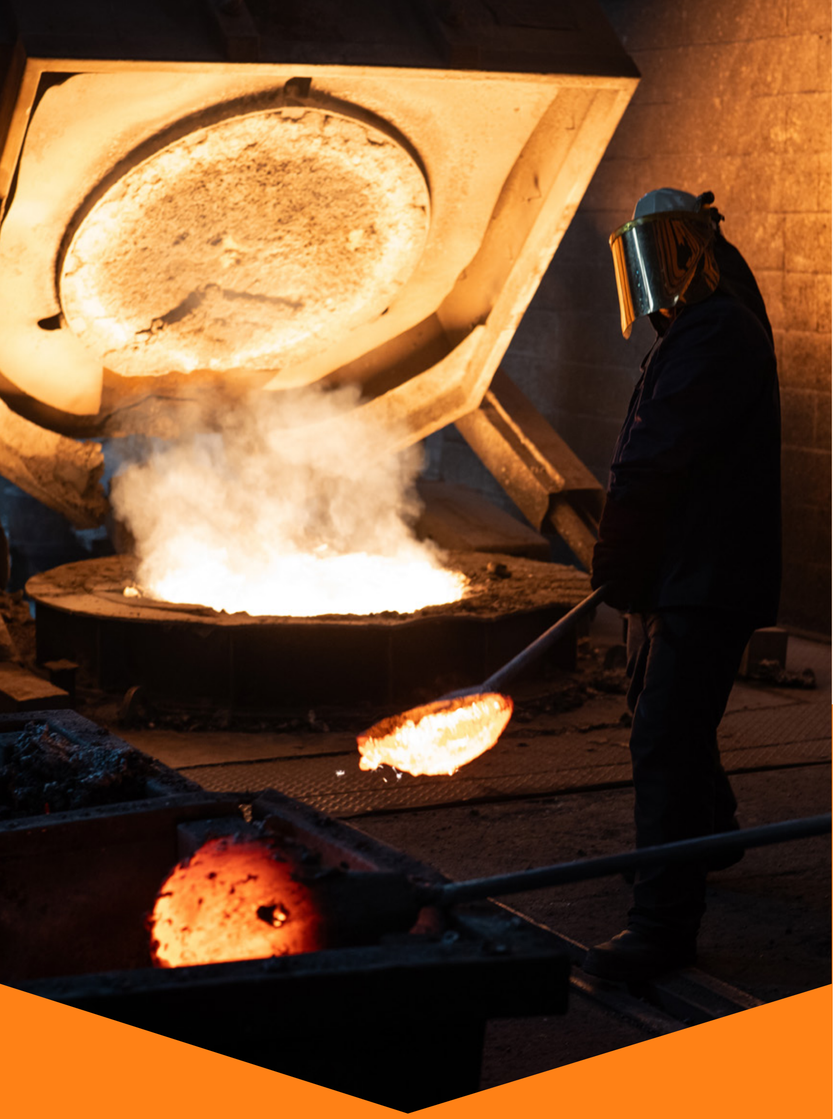
£423,000
Estimated cost to implement*
(£ exc. VAT)

10 Years
Estimated payback period*

782,300kWh
Estimated annual energy saving
(kWh/yr)

173.9tCO2e
Estimated annual carbon saving
(tCO2e/yr)

*based upon full assessment report implementation



Precision engineering with a sustainable vision

Brockmoor Foundry, based in the West Midlands, is a leading supplier of high-tolerance castings for the automotive and industrial sectors. With an annual output of 22,000 tonnes, the company has built a reputation for quality and precision. As energy costs surged, the foundry recognised the need for strategic energy management to maintain its competitive edge while committing to sustainability.

"The energy assessment confirmed our priorities and helped us implement changes that will benefit both our business and the environment. The grant application was straightforward, and the results speak for themselves. We would absolutely recommend this approach to other manufacturers looking to cut energy costs"

Steven Smith, Energy Manager, Brockmoor Foundry

Tackling rising energy costs head-on

Mounting operational costs required the business to rethink its energy consumption strategy. The challenge was clear: reduce costs, improve efficiency, and lower the company's carbon footprint without compromising production output or quality.

Seeking expert guidance, Brockmoor Foundry connected with Aston University's energy evaluation programme and collaborated with Pro Enviro for a comprehensive audit. The assessment pinpointed key inefficiencies and outlined an actionable strategy, including:

- **Smart Metering Expansion:**
  Installation of over 30 energy meters to monitor real-time electricity usage across high-consumption equipment.
- **Equipment Optimisation:**
  Implementation of automated shutdown processes to prevent unnecessary energy consumption outside production hours.
- **Targeted Upgrades:**
  Replacement of outdated motors, compressors, and lighting with modern, energy-efficient alternatives. Installation of a new solar PV arrray
- **AI-Driven Efficiency:**
  Partnering with universities to explore artificial intelligence applications for optimising furnace operations and energy distribution.

Forging a more efficient and sustainable future

Brockmoor Foundry is set to achieve a 15% reduction in its carbon footprint - meeting its 2026 target ahead of schedule. The improvements are projected to save over 100 tonnes of carbon emissions annually. The foundry now has a structured framework for ongoing energy management, allowing for continued efficiency gains.

Register today for your FREE business energy assessment

decarb@aston.ac.uk bit.ly/DNZ-Register

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