



British Steel x Optimal Monitoring

Building multi-utility visibility across a complex industrial site



THE CHALLENGE

British Steel's Skinninggrove site supports British Steel, TC Industries and Caterpillar. Utilities are distributed through shared site infrastructure, production areas and company-specific supplies, making clear allocation and visibility essential. They required installation of monitoring across key electricity, gas and water points to create a more structured view of consumption across the site.



SOLUTION

Optimal Monitoring installed a multi-utility monitoring system across electricity, gas and water supplies, giving British Steel and the other organisations on site a stronger foundation for utility visibility.

The installation provided detailed gas monitoring, while the survey identified remaining electricity and water gaps, including incompatible meters and high-load production assets requiring further sub-metering.

The proposed next phase focuses on the largest drives, pumps, motors and compressors, with the aim of bringing 90%+ of electricity use into view: supporting better energy management, cost allocation and investment decisions.

Requirements

- 1 **Connect the existing estate**
Bring key electricity, gas and water supplies into one monitoring structure.
- 2 **Separate site areas**
Track offices, workshops, substations, furnaces and company-specific supplies.
- 3 **Identify the largest gaps**
Survey high-load electrical systems for the next phase of sub-metering.

Coverage gaps identified

- ✓ Office electricity meter requires replacement before data can be captured.
- ✓ TC Industries water meter also requires replacement for compatibility.



Business benefits



Better allocation

A clearer view of consumption across shared and company-specific supplies.



Faster decisions

Reliable data to support discussions about meter replacements, site upgrades and investment.



Targeted sub-metering

The survey helps focus spend on the largest loads rather than installing unnecessary meters.



Operational insight

Improved visibility helps identify abnormal consumption, benchmark areas and support carbon reporting.