Drive efficiency through energy data

The challenge:

Do you know how much energy your business is really consuming?

Only a quarter of organizations say they assess their energy use regularly[1]. Many measure their energy use annually, or even less frequently.

If you don't know your energy consumption, how can you drive improvements in operational performance and reduce your costs?

The more you know about your energy, the better you can manage it.

The solution:

Continuous monitoring of energy consumption enables you to build an understanding of where your true costs really lie. By attaching self-powered, wireless sensors to your energy-consuming equipment, you can monitor your energy usage in real-time. The sensors use the power of Internet of Things (IoT) technology to transform your assets and devices into smart devices and relay real-time intelligence to an online analytics platform.

The data provides you with granular visibility of your power usage. With this intelligence, you can compare consumption across different sites, machinery and equipment at different times of the day. This allows you to optimize performance, make efficiency gains and spot potential equipment failures before they happen — helping you to better manage your energy costs and carbon emissions.

The process:

Understand what you want to achieve — Are you looking to boost operational efficiency and lower energy costs? Do you need to improve asset reliability? Or do you want to use the data to build an energy strategy? While our energy insights solutions can enable all these, having a clear objective to start with will help define your success.

Design a future-proofed solution — The flexibility of energy data means you can use the analysis to make immediate savings. Data collected from your equipment and processes can even be used to build a case for investing in other distributed energy solutions to achieve further savings.

Connect your sensors and capture data — Easily install our wireless sensors to your equipment with minimal disruption to your operations. These sensors will IoT-enable your equipment once they are connected to the network.
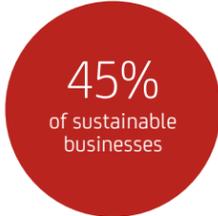
Manage your data with PowerRadar™ — Visualize your energy data, schedule reports, create real-time alerts, and view analytics to understand your energy consumption and define savings strategies.

Data-driven decision making — Use data to drive better efficiencies and identify opportunities to generate revenue.

Key facts:

45% of sustainable businesses

are transforming energy data into specific, actionable improvements

76% are utilizing data

collected from sensors and smart devices to improve decision making, compared with 56% of other businesses

The benefits:

✓ Predictive analytics can help you adjust operational processes to minimize costly downtime, reduce waste, enhance agility and increase productivity.

✓ Greater visibility of your energy use can quickly be turned into savings that help deliver immediate financial benefits.

✓ Use data to build the case for future investment. Reducing energy costs frees up your resources to directly invest in other growth initiatives.

✓ Obtain the intelligence you need to develop a data-driven energy strategy. Monitor and analyze real-time data with accuracy and reliability, while tracking usage and consumption with detailed kWh, flow and volumetric data.

Case Study:

CEMEX reduces energy consumption with energy insights

Centrica Business Solutions initially deployed its energy insights solution at three locations by applying wireless, self-powered sensors to monitor a range of essential machinery, including pumps, conveyors and crushers. The live data was transmitted to PowerRadar, a cloud-based analytics platform.

centrica Business Solutions

1. Centrica Business Solutions, The Energy Advantage Report