



"I was recommended to PowTechnology by colleagues. We're delighted with the reliability of the hardware, the speed of development of the custom portal and the overall effectiveness of this IIoT solution. PowTechnology have been customer-focused throughout. Seeing all the data in one place is helping us improve performance, cut costs and ultimately deliver better service and lower costs to our customers."

ANDY PARKER
Energy Generation
Operations &
Maintenance Manager



The task

United Utilities deliver 1.8 billion litres of water a day in North West England. Combined Heat & Power (CHP) engines on wastewater treatment plants run on biogas from the wastewater process, creating heat and electrical power, both valuable outputs. The heat is returned to the digestion process and the power is primarily used onsite, with any excess sold to the National Grid. The team wanted to monitor engines to improve efficiency and drive performance, but connecting the engines to SCADA couldn't be justified financially or within acceptable timeframes.

The result

Multiple stakeholders can see status of all CHP engine types on a single portal, with data used to monitor performance and identify general maintenance issues and those related to specific assets. Improved efficiency increases the cost savings from heat production and income from energy sales.

The solution

PowTechnology telemetry devices were installed on the whole estate of CHP engines and a custom portal developed to show engine status- Running, stopped but available, tripped and ... stopped for maintenance. This data allows UU to accurately see the MTTR, MTTB and availability of the fleet and therefore, help to drive better performance.

Summary

- Simple retrofit
- Fast, inexpensive solution
- Improved efficiency
- Increased productivity
- Improved profitability