

IIoT Solutions for Trains and Rail Infrastructure

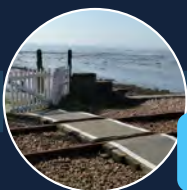
PowTechnology has delivered the largest estate of retrofitted remote condition monitoring units in the UK rail network.

PowTechnology partners with train companies to develop remote condition monitoring solutions. Our proven & approved technology extends asset longevity and ensures passenger safety and comfort.

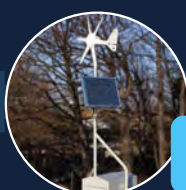
ON TRAIN



TRACKSIDE PROJECTS



Level crossing monitoring



Trackside grease applicators



Track temperature

IIoT Solutions for Trains and Rail Infrastructure

PowTechnology's well-proven, versatile MetronView cloud collects data from a vast array of sensors, machines and IIoT devices. It gets your data flowing ... fast ... from your first step towards digital transformation to an international estate of connected assets!

Multiple power & communication options ensure connectivity in remote & rural environments.



CASE STUDY



PowTechnology offers incredibly robust, reliable and easy-retrofit IIoT solutions. In various applications, they deliver the data Angel need to understand normal performance and to identify anomalies. Like Angel, PowTechnology is committed to continuous improvement. For ten years their technology has really helped us understand what is happening on our trains, so we can continue to offer industry leading asset management services.”

GRAHAM DUTTON Product Technology Manager

The task

Angel Trains is one of Britain's leading train asset management companies. Around 10 years ago they embraced PowTechnology's IIoT kit to help define what normal train operating scenarios were, in order to identify anomalies and assist customers with strategic decision making. The objectives were to extend asset longevity, eliminate unscheduled maintenance, reduce costs and to improve passenger safety and comfort.

The result

Sensor data is now collected regularly and reliably on a range of parameters including exhaust, coolant, oil and charge air temperatures, saloon temperature, humidity and CO₂ levels, fuel and effluent tank levels. Alerts are generated, so timely action can be taken to minimise issues.

The solution

Economies can be driven by understanding and modifying processes to avoid issues. It is now possible to use data as a basis for strategic decision making, enabling Angel to differentiate themselves from competitors.

Summary

- | Excellent customer service
- | Reduced operating costs
- | Improved passenger safety
- | Improved train performance
- | Extended longevity