# A TAILOR-MADE & SAFETY CRITICAL POWER PLANT ENGINE SOLUTION

### **CASE STUDY**

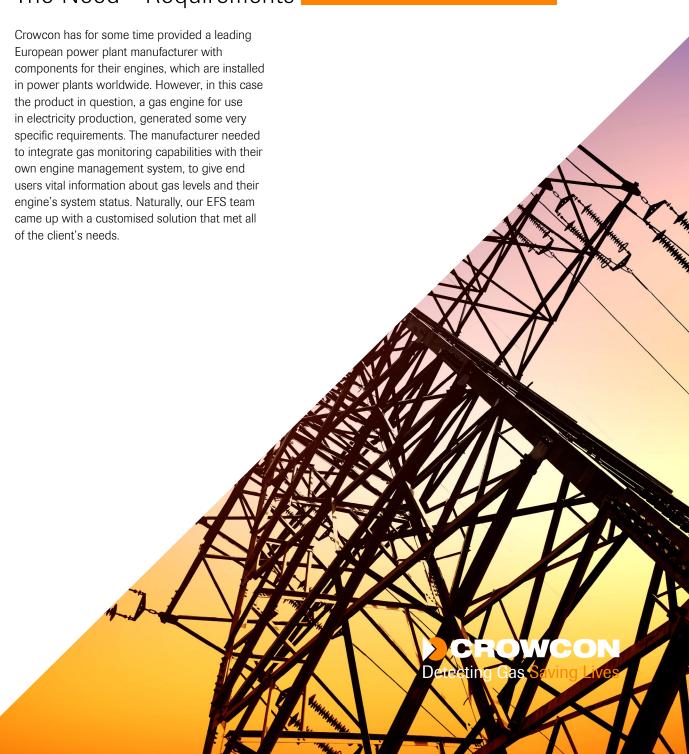
In this case, our client needed to integrate gas monitoring capabilities with their own engine management system, to give end users vital information about gas levels and their engine's system status.





## THE MANUFACTURER NEEDED TO INTEGRATE GAS MONITORING CAPABILITIES WITH THEIR OWN ENGINE MANAGEMENT SYSTEM, TO GIVE END USERS VITAL INFORMATION ABOUT GAS LEVELS.

The Need - Requirements



### IN ANY POWER GENERATION ENVIRONMENT, INFORMATION ABOUT THE STATUS OF A GAS ENGINE AND LOCAL GAS LEVELS IS CRUCIAL.

### Safety critical

As we have seen, the customer needed to integrate a gas monitoring system within a gas engine, which would in turn be used in electricity production – so, all components were safety critical. What was more, the customer needed to integrate the gas monitoring system with its own engine management system, which gave users of the gas engine easy access to vital information – including gas levels – via a human machine interface (HMI) panel, which the EFS team would also supply.

In any power generation environment, information about the status of a gas engine and local gas levels is crucial. This is because in the event of a gas leak, gas engines must be shut down and gas supplies isolated immediately to avoid catastrophe.

In this case, the customer asked for the HMI system to show a clear live display of complete system status, so that when the engine was in use, its operator could quickly and easily confirm this.

In addition, the client required the best possible traceability of all system components.



### THE TAILOR-MADE SOLUTION USED VORTEX WITH A CUSTOMISED HMI DISPLAY TO SHOW THE ENGINE STATUS AND VORTEX INFORMATION, ALONG WITH IRMAX INFRA-RED GAS DETECTORS.

### Close co-operation



"THIS WAS A DEMANDING PROJECT" SAYS JACKIE MARSH, BUSINESS DEVELOPMENT ENGINEER OF CROWCON'S EFS TEAM.

"CLOSE CO-OPERATION REALLY MADE
A DIFFERENCE HERE; IT ENSURED THAT
WE DESIGNED A SOLUTION WHICH
PERFECTLY MET A PRETTY COMPLEX SET OF
REQUIREMENTS. WE ARE VERY PLEASED WITH
THE OUTCOME."

Find out how we can help I

If your products could benefit from customised integrated gas monitoring, why not fill in our contact form? We'll get back to you to discuss your requirements and how our EFS team can help.

**Click HERE to access the form.** 

### **Further info:**

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