

## CASE STUDY

# Staying compliant

How an oil and gas firm enhanced monitoring with Data Visualisation

### The client's data goal:

**To make fast, informed decisions on efficiency and compliance**


As an oil and gas company operating in the UK's North Sea, this client needed to report to several authorities to show that they are operating in a safe, sustainable and economic manner. Failure to do so would have dire consequences for the business. They recognised that they needed to enhance their Data Reporting and Visualisation to remain confident in their compliance while staying efficient.

### The challenge:

**Making reports easy to decipher, to reduce overheads and secure consent from regulators**

The company reports to the North Sea Transition Authority (NSTA), the regulatory body for oil and gas

in the UK, on a range of issues including exploration and production; health, safety and environmental performance; compliance with UK regulations; reserves and resources; financial performance; social and economic impacts; and decommissioning plans and costs. One aspect of NSTA's regulation is ensuring that flare gas is used safely and efficiently. Failure to demonstrate this could land the firm with fines, penalties, legal action or even a loss of consent to operate. They realised that they needed to increase the frequency of their flare gas monitoring reports, introducing Visualisation to make findings easier, faster and more cost-effective to decipher. They wanted to be able to introduce visual aids to their data reports, to create an at-a-glance understanding of their flare emissions.



“The client’s  
Visualisation solution  
allowed them to make  
more informed decisions  
about their operations”

### **The Agile Solution: An interactive, at-a-glance data dashboard**

Agile Solutions worked with the client to understand their specific needs and requirements, meeting with stakeholders – including engineers and managers – to gather information about data, current processes and desired outcomes.

As a Microsoft Data and AI (Azure) Solution Partner, Agile Solutions were able to introduce a Data Visualisation suite using Microsoft PowerBI, that would allow them to easily view and analyse flare emission data, including a dashboard to display daily data so that they could track emissions in almost real-time. As well as making data easy to decipher, with context and insight, the dashboard could provide predictions of when and if flare levels would exceed NSTA consent limits, enabling the company to take action. Multiple visualisations would also provide different perspectives on data, enabling them to make their own interpretations.

Implementing the proposed solution included integrating data from various systems, cleaning and preparing that data, and building the dashboard. The solution was then tested and fine-tuned with the client’s input.

### **The Result: A powerful Data Visualisation solution for tracking and monitoring**

**The client’s Visualisation solution allowed them to make more informed decisions about their operations, with consistent reporting across all seven of their gas production facilities. They were also able to minimise lag time between operations and actions, enabling faster, more decisive actions. The organisation can now adhere to compliance and safety with confidence, and has gained a better overall understanding of their flare practices to identify new areas for improvement.**

**Do you need reliable data to secure compliance and improve reporting through Visualisation? Our team can advise you on the best approach for your organisation.**

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