

CASE STUDY

Deeper knowledge reduced maintenance and operational costs for oil and gas production

nCode ReliaSoft

HBK Engineering Solutions worked with its client to implement an Asset Reliability Management System and empowered them to improve their failure data collection and analysis process – delivering increased output, optimised maintenance, and reduced operational costs.



CHALLENGE

Reduce downtime and maintenance costs, increase production, and reduce flaring.

SOLUTION

Implementation of an Asset Reliability Management system, linked to Maximo CMMS. Client was also trained in reliability methods and software.

RESULT

Robust monitoring and reliability analyses increased output and minimised financial losses resulting in \$110M of savings over 5 years.

THE CHALLENGE

Common to the Oil & Gas industry, our client faced high volumes of reactive maintenance cases and associated high costs.

In addition, they faced high flaring due to equipment/process emergency shutdowns, which resulted in loss of production and negative environmental impact.



THE SOLUTION

HBK Engineering Solutions worked with the client to implement an Asset Reliability Management System, which included RCM tools, and RAM analytics.

Engineers were trained in reliability software and methods to enable an improved failure data collection process.

Together with the client, HBK Engineering Solutions built a Digital Twin of the operation, investigated various operational profiles and maintenance strategies for the individual equipment and various configurations.



THE RESULT

Observed failures and repairs allowed their process to be modelled for reliability and maintainability, and the 'bad actors' identified.

By implementing various changes to their operational profiles and maintenance strategies, the client realised savings of \$110M over five years.

Reduced incidents of flaring results in less associated environmental consequences.



ABOUT HBK ENGINEERING SOLUTIONS

HBK Engineering Solutions ensures customer success through value-driven solutions for product and process development, and operational monitoring. We are a multi-disciplinary team with expertise in failure analysis; predictive analytics and modelling for reliability, durability, and deterioration; asset health and usage monitoring; prognostics; and the development and testing of embedded software to deliver robust solutions to our global clients. Our team of engineers, analysts, software developers, data scientists, and program managers, many holding United States Government security clearance, are readily available to provide technical expertise and deliver value-driven solutions.

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