

A leading American oil and natural gas company which uses enhanced oil recovery technique to extract petroleum. The company has 230.2 MMBOE of estimated proved oil and natural gas reserves as of December 31, 2019, of which 98% is oil.



Predicting ESP Failures for a Leading Oil & Gas Company

Challenge

- Evaluate SAP's platform and advanced data processing capabilities with customer ESP (Electric Submersible Pumps) data to prove if one could detect pre-emptive notifications of failures
- Technical expertise in analyzing customer's ESP data

Solution

- Integrating operational ESP data with other company data to predict rate of pump failure. SAP, Incture and the client worked together to analyze operational ESP dimensions such as vibration, temperature, frequency and operating voltage, start/stop and operational tolerance error data to understand the factors that contribute to pump failure. We provided analytical reports on observed relationships and co-relations

Outcome

- Predicting ESP failures will help customer increase production while reducing operating costs, give customer unmatched equipment reliability insight, assist customer in negotiating better warranty and service contracts, provide customer a financial edge over peers.

Business Impact

1MN USD Projected Annual Benefit

85% Prediction of ESP failure

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