ABB MEASUREMENT & ANALYTICS | CASE STUDY

Advancing Remote Data Acquisition and Compliance with Automated Verification in Gas Metering Systems

A Case Study

In response to regulatory demands and operational inefficiencies, a leading oil and gas producer partnered with ABB to implement Ethernet-connected Coriolis meters and automate compliance verification. This initiative streamlined data acquisition, reduced manpower costs, and enhanced operational insights, exemplifying ABB's commitment to innovation in energy sector solutions.

Measurement made easy

Introduction

In response to stringent regulatory requirements and the need for enhanced operational efficiency, a leading oil and gas production company sought innovative solutions to optimize their gas metering processes. Facing challenges with manual data collection and compliance reporting, the company turned to ABB for a transformative solution.

Challenges Faced

The company, like many in the industry, faced significant costs related to sending personnel for on-site data collection and verification of gas metering equipment. Regulatory mandates demanded precise measurement accuracy, yet the customer's existing technology required manual interaction with each meter, resulting in high operational expenses and potential delays in compliance reporting. This process required personnel to physically access each meter, retrieve data, and manually input it into systems for report generation.

ABB's Solution

ABB proposed a comprehensive solution centered around their Coriolis FCB430 meters equipped with Ethernet connectivity and the SRV500 Verification module. This solution enabled remote data acquisition, commissioning, troubleshooting, and device management, aligning perfectly with the company's objectives to reduce costs and improve operational efficiency.

Implementation and Results

ABB provided the customer with standard size meters to demonstrate the advantages of remote verification. Having successfully validated these benefits, the next phase involves enabling the customer to implement these meters into brownfield applications. This includes replacing existing meters with ABB units built to exact installation specifications. This approach eliminates the need for piping modifications, as customers can simply unbolt the current meter and securely install the ABB meter, seamlessly and quickly resuming production operations.

The SRV500 Verification module initially required manual data input for compliance reporting. However, recognizing the potential for further efficiency gains, the company is collaborating with ABB to automate the verification process. ABB is responding by enhancing the SRV500 software to streamline data retrieval and reporting, eliminating the need for manual intervention and reducing the time and effort required to generate compliance reports.

Looking Forward

With ABB's automated verification capabilities in place, the company will benefit from enhanced operational abilities, real-time data insights, and streamlined compliance reporting. The implementation of ABB's solutions not only met but exceeded the company's expectations, enabling them to achieve regulatory compliance more efficiently while optimizing operational costs.

Conclusion

Through ABB's innovative technologies and collaborative approach, the oil and gas production company successfully transformed their gas metering processes, achieving significant cost savings, and operational efficiencies. This partnership underscores ABB's commitment to delivering advanced solutions that empower customers to meet regulatory requirements seamlessly while driving operational excellence in the energy sector. As the industry continues to evolve, ABB remains dedicated to supporting its customers with cutting-edge technologies and unparalleled service.

For more information on how ABB can optimize your gas metering processes and compliance efforts, please visit abb.com/measurement or contact our sales representatives directly.

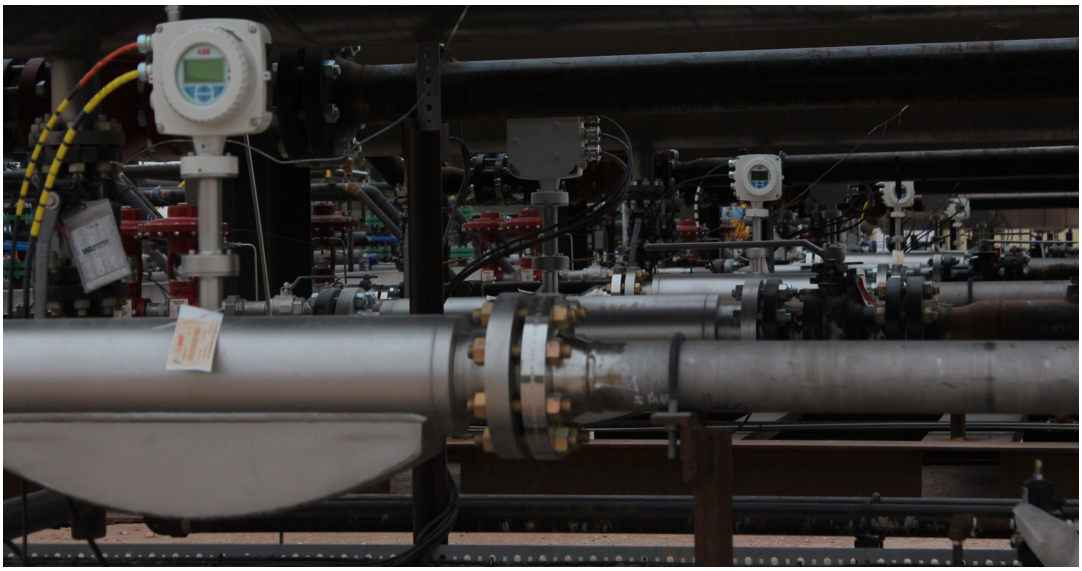

ABB Measurement & Analytics

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