ABB MEASUREMENT & ANALYTICS

Enhancing Renewable Natural Gas Skids with XIO

A case study of an OEM Skid Manufacturer in Oklahoma

Exploring how an Original Equipment Manufacturer (OEM) in Oklahoma leveraged ABB's XIO solutions to address the unique measurement and integration requirements of RNG facilities, resulting in optimized operations, reduced labor demands, and significant cost savings.

Measurement made easy

Introduction

As the demand for renewable energy sources continues to grow, RNG has emerged as a promising alternative to traditional fossil fuels. However, the reliable measurement of flow and quality presents a critical challenge for RNG facilities. OEMs play a crucial role in providing tailored solutions to meet these challenges.

The Challenge

The customer/OEM in focus specializes in assisting RNG producers in navigating the complexities of decarbonization markets. Their expertise lies in designing analytical and measurement skid solutions that form the backbone of efficient and environmentally conscious RNG operations.

RNG facilities require accurate measurement of both untreated biogas and refined RNG, along with the ability to integrate seamlessly with third-party devices. These requirements demand innovative solutions that ensure reliability, efficiency, and compliance with regulatory standards.

The Solution

The XIO device from ABB emerged as the solution of choice for the OEM manufacturer. Its versatile design simplifies integration for OEMs utilizing single skid designs, accommodating instrumentation, controls, and flow measurement equipment. The din rail mount design seamlessly fits into approved wired junction boxes, offering a robust and compact solution for RNG facilities.

The Benefits

1. **Optimized Operations:** The integration of XIO solutions enables RNG facilities to streamline their operations, enhancing efficiency and reliability in flow and quality measurement processes.
2. **Reduced Labor Demands:** By offering a user-friendly interface and seamless integration capabilities, XIO solutions minimize onsite labor demands, freeing up resources for other critical tasks.
3. **Time and Cost Savings:** The ability to conduct Factory Acceptance Tests (FAT) before delivery to end-users reduces commissioning time and associated costs, ensuring a smoother and more cost-effective deployment process.

Conclusion

The successful deployment of ABB XIO solutions by the OEM skid manufacturer underscores the transformative potential of advanced instrumentation technologies in the renewable energy sector. By addressing the unique measurement and integration challenges of RNG facilities, XIO solutions contribute to the efficiency, reliability, and sustainability of RNG production processes.

For more information on how ABB's advanced solutions can benefit your operations, please contact us at new.abb.com/contact/form#.

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