

# Enhancing Operational Reliability and Compliance in Chemical Manufacturing

## A Case Study



ABB's comprehensive Life Cycle Assessment and proactive solutions enabled a global styrene plastics supplier to mitigate equipment obsolescence risks, optimize operational performance, and ensure compliance with EPA regulations.

Measurement made easy

### Introduction

A global leader in styrenics production faced critical challenges due to turnover within their maintenance team and obsolescence of vital CGA modules, risking violations of EPA CEMS regulations and potential downtime. Seeking immediate solutions, the company engaged ABB for a comprehensive Life Cycle Assessment (LCA) and strategic recommendations.

### Challenges Faced

The company, like many in the industry, encountered significant costs associated with deploying personnel for local data collection and verification of gas metering equipment. Regulatory mandates demanded precise measurement accuracy, yet the existing technology required manual interaction with each meter, resulting in high operational expenses and potential delays in compliance reporting. requiring personnel to physically access each meter, retrieve QR code data, and input information into software systems.

### ABB's Solution

ABB's Life Cycle Assessment site survey meticulously assessed the status of critical modules and identified potential risks associated with product age and availability. This thorough evaluation enabled ABB to deliver personalized training, pre-calibrated spare modules readily available on-site, and essential spare parts, ensuring minimal disruption to operations.

### Conclusion

By leveraging ABB's expertise and proactive approach, the company successfully mitigated risks associated with equipment obsolescence and maintenance challenges. The implementation of ABB's solutions not only optimized the performance of their installed base but also safeguarded compliance with stringent regulatory standards, thereby enhancing operational reliability and minimizing downtime.

This collaboration underscores ABB's commitment to empowering industrial leaders with innovative solutions that mitigate risks, optimize performance, and ensure continuous operational excellence in the chemical manufacturing sector.

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