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QAFCO
شركة قطر للأسمدة الكيماوية
QATAR FERTILISER COMPANY

Transforming QAFCO's Material Handling Through Intelligent Conveyor Automation

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Project Overview

Qatar Fertiliser Company (QAFCO), the world's largest single-site exporter of urea, partnered with Avanceon to modernize its material handling operations through intelligent conveyor automation.

Avanceon successfully engineered and commissioned a Rockwell Automation ControlLogix PLC and PanelView HMI solution, replacing conventional relay-based controls with a smart, PLC-driven automation platform.

The Challenge

A leading fertilizer manufacturer required a modern automation solution to replace its conventional relay-based conveyor control system, improving operational reliability, process visibility, and maintenance efficiency while enabling seamless integration with the plant-wide control system.

Legacy Relay-Based Controls

Manual operations and hardwired relay logic increased maintenance complexity and operational risk.

Limited Process Visibility

Lack of real-time monitoring restricted visibility into conveyor performance & equipment status.

Lengthy Fault Diagnosis

Troubleshooting relay-based systems resulted in extended downtime & delayed maintenance response.

Decentralized Operations

Absence of centralized monitoring reduced operational efficiency and slowed decision-making.

Our Smart Solution

Avanceon implemented a **Rockwell Automation ControlLogix** PLC & PanelView HMI solution to modernize conveyor operations with intelligent control, centralized monitoring & enhanced operational visibility.

Intelligent PLC-Based Control

Replaced conventional relay logic with a modern PLC-driven automation platform.

Automated Conveyor Sequencing

Implemented intelligent sequencing, equipment interlocks, permissive logic & safety protections for reliable material handling.

Centralized HMI Operations

Deployed an intuitive PanelView HMI for equipment control, real-time monitoring, alarm management & maintenance support.

Plant-Wide DCS Integration

Integrated the PLC system with the Distributed Control System (DCS) to enable centralized monitoring, remote operation & real-time data acquisition.

Advanced Alarm & Diagnostics

Implemented comprehensive diagnostics and alarm management for faster fault identification and troubleshooting.

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The Impact

Improved Operational Reliability
Intelligent PLC-based control enhanced conveyor performance and system stability.

Reduced Unplanned Downtime
Faster fault detection and diagnostics minimized production interruptions.

Enhanced Process Visibility
Real-time monitoring provided complete visibility into conveyor operations & equipment health.

Accelerated Maintenance Response
Centralized diagnostics enabled quicker troubleshooting and reduced maintenance effort.

Greater Operational Efficiency
Automated sequencing and reduced manual intervention improved productivity and process consistency.

Improved Safety & System Integrity
Intelligent interlocks and automated permissive logic strengthened operational safety.

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Client Testimonial

"The Avanceon team has been proactive in the timely submission of engineering deliverables and delivery of panels. The site support provided during FAT, SAT, testing, and commissioning has been highly commendable. Their engineers are technically sound, maintain excellent client interaction, and demonstrate strong problem-solving skills in resolving on-site issues. Keep the same momentum in future projects."

Project Manager

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Driving Smarter Material Handling Through Industrial Automation

Get in Touch

marketing@avanceon.ae

www.avanceon.ae