PREDICTIVE MAINTENANCE BENEFITS MULLER IN REDUCING DOWNTIME

CUSTOMER CASE STUDY - FOOD MANUFACTURING SITE

PROJECT SNAPSHOT

Müller Milk & Ingredients are Britain's largest producer of branded and private label fresh milk, cream, butter and ingredients products, with a network dairies and depots servicing customers across the UK.

Müller Dairy Bellshill in Scotland processes over 370 million litres of fresh milk and cream each year. The site was upgraded in 2018 at a cost of £15 million, making it Scotland's largest fresh milk dairy.

The site experienced failure earlier this year on a main filling line. This failure shutdown production for 28 days, generating a loss of thousands in production and revenue.

Müller identified a need to implement a predictive maintenance system within its manufacturing process that could be installed quickly, had no interruption and provided real-time view on the condition of critical assets.

> *Invisible Systems Wireless Condition Based Monitoring System highlighted an anomaly on the main milk filling line in the first month of being installed that saved £12,000. The system has enabled hassle free monitoring of our critical assets and has facilitated strategic projects to increase our resource efficiency.*
>
> **KEITH DENHOLM - ENGINEERING MANAGER**

invisible systems

PROJECT OBJECTIVES

ESTABLISH RELIABILITY

PREDICT FAILURES

IMPROVE PRODUCTION

NO IMPACT ON OPERATIONS OR IT INFRASTRUCTURE

PROJECT OUTCOMES

Based on their needs, Müller implemented a **Condition Based Monitoring Solution.** The implementation of this solution resulted in:

- Reduced number of unplanned failures
- Improved equipment availability and reliability
- Repairs being scheduled in non-peak times
- Increased asset lifetime

Following the successful condition based monitoring installation at the Bellshill site, Müller are now further expanding the system to cover 4 additional filling lines.

WHY CONDITION BASED MONITORING?

- Alerts & notification by email & SMS
- Automated reporting
- Realtime-Online web browser
- Targeted energy reduction
- Reduced operating costs
- Proactive planned maintenance
- Improved machine efficiency
- Captures realtime vibration & temperature data