

ITC Infotech Synergizes Production and Workforce Optimization for Global FMEG Company with Digital Factory Capabilities



ABOUT THE CLIENT

The client is a global FMEG company with annual revenue of USD 1 billion. They have a presence across the globe and cater to domestic and international markets with products including electric wires, kitchen appliances, lighting, and cables for domestic, commercial, and industrial applications. They had to optimize production to improve quality and performance.

WHAT WAS NEEDED

The client needed to synergize production and optimize the workforce to increase quality as well as efficiency. To accomplish this, they needed real-time production and maintenance insights by -

- Assessing machine performance and efficiency in real-time
- Identifying the cause of failure, log uptime, downtime, and idle time of machines
- Understanding the equipment functionalities, upgradation history, and other necessary details to offer instant customer support
- Improving visibility in workforce allocation and utilization

SOLUTION

- Implemented shop floor to top floor integration by enabling data transfer from PLC & SCADA to ERP using PTC Kepware
- Retrofitted 80% of machines with IoT sensors to send data to the OPC layer
- Deployed PTC ThingWorx for real-time OEE analysis
- Created multiple comparison reports to understand the correlation between workforce allocation and equipment utilization
- Established workforce utilization monitoring with the comparison of production lines

RESULT

- 2% increase in Overall Equipment Effectiveness (OEE) with real-time production insights
- Enhanced performance with swift response to equipment failures
- Improved operations with optimized workforce deployment in six months
- High availability and reduced uptime with equipment optimization

ABOUT ITC INFOTECH'S DIGITAL FACTORY CAPABILITIES

ITC Infotech's Digital Factory solutions help manufacturers leverage I4.0 technologies to enable intelligent, reliable, and predictive shop floor operations to be future-ready. Built on industry templates using IoT, advanced analytics, automation, AI, mobility & AR, the solutions enhance performance on KPIs across the shop floor for a more connected & predictable manufacturing environment.