



Global Solar Power Giant Boosts Operational Efficiency with Comprehensive Manufacturing Execution System

Client

The largest global producer of solar cells and photovoltaic modules with production plants in Germany, China, Malaysia and South Korea. The firm serves utility, commercial, government, and residential markets across Europe, North America, Asia, South America, Africa, and the Middle East.

Challenge

- The solar power giant wanted to boost the throughput of its key production units by ensuring greater visibility of the shop floor inventory, leveraging automation to enable customizable dispatch rules
- The firm was looking to implement a comprehensive Manufacturing Execution System (MES) that could balance the Work-In-Progress (WIP) across the production line to optimize costs and dynamically prioritize equipment queues

Solution

- L&T Infotech conducted a thorough requirements gathering exercise, and offered a solution with these key features:
 - Designed a customizable baseline MES solution for multiple geographies
 - Automated processes including container, carrier and equipment tracking and dispatching, and workflow design
 - Integrated MES with SAP for effective Manufacturing Order Management
 - Set up Key Performance Indicator (KPI) dashboards
 - Helped enhance reporting capabilities for generating detailed yield analysis and management reports

Benefits

- Significant increase in the efficiency of manufacturing operations
- Remarkable improvement in equipment utilization and significantly reduced cycle times
- Superior business continuity planning owing to a well-rounded recovery and rollback scheme
- A near 15% reduction in IT-related costs using an offshore development and support model. A substantial improvement in MES availability and a 10% improvement in IT system efficiency due to standardization and streamlining of IT workflows

About L&T Infotech

L&T Infotech (NSE: LTI) is a global IT services and solutions provider with presence in 22 countries. We solve complex business challenges at the intersection of digital and physical world with our real-world expertise and extreme client centricity. We help clients create better customer experiences, transform processes and build new businesses.

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