

Building Smart & Efficient Utilities for a CPG Industry using IIoT & Data Science

CHALLENGE

- Energy cost was in the range of 20% to 40% of the total conversion cost for different product lines. Input energy cost is increasing consistently, and the client wanted to reduce the energy cost as part of the conversion cost

SOLUTION

- Shopfloor connectivity of all utility assets and production lines for real time data collection
- Descriptive analytics with dynamic benchmarks for energy efficiency monitoring
- Tracking financial saving potential for proactive loss management & behavioral change
- Diagnostics by logging error codes for deviation and analysis
- Efficiency prediction & optimization using machine learning (ML) models
- Recommendation engine to prescribe optimal operating values to achieve optimum efficiency
- Simulation of plant assets using ML, to help in planning for higher energy efficiency

RESULTS

- 5% reduction in energy cost over the baseline; ROI less than 2 years
- Availability of a scientific tool to end users for understanding financial loss and its proactive management
- Data driven decision making for higher operating efficiency of utility equipment

Client is an Indian multinational conglomerate with presence in many industries such as Foods, Personal Care, Education, Lifestyle, and others. The client wanted to optimize his energy expenditure in the manufacturing plants.

5%
reduction in
energy cost

< 2 years
ROI

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