

InfoPeople Helps Implement IoT Technologies for Minimizing Plant Energy Usage

Client Overview

The client wanted to implement IoT technologies that can minimize energy usage and cost through smart usage analysis.



The Challenges

Energy utilization is higher in the manufacturing industry, so it is recommended to monitor factory energy usages and minimize the cost wherever possible based on data analysis and verified insights.

The Solution

InfoPeople helped in the implementation of an IoT-based real-time energy monitoring system (EMS). This solution provides insights for enterprise-level, multiple-plant energy utilization by integrating water, air, gas, steam, and electricity (WAGES) energy sources. It also provides energy usages on the site level, production line-wise, and asset/machine level.







AI- and ML-powered analytics play a major role in the asset/machine performance improvement, which indirectly helps in:

- Reducing the maintenance cost
- Increasing the machine life, run-time hours
- Enhancing production quality and percentage of loading

The following KPI metrics were used during the implementation:

- Energy consumption/machines
- Energy consumption/production line
- Energy consumption/product or slot
- Number of critical alerts
- Percentage of data availability and data quality

Differentiators

-  OpEx Model by integrating existing infra quickly and reduce the Investment cost
-  Only required important data will be analyzed
-  Covering entire IoT Layers, starting from sensor, gateway, existing database,
-  PLC, SCADA, DCS, Network, Cloud/On-premises, and Application and Analytics
-  Quick onboarding of enterprise solution
-  Multi-layer Security

