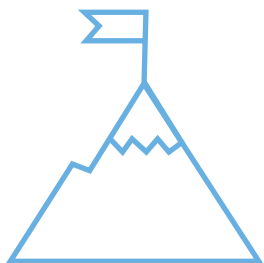




Case study

Reducing overrun costs through energy efficiency solution using Industry 4.0 standard

The client is a US-based multinational corporation that develops medical devices, pharmaceuticals, and consumer packaged goods.



Business Challenges

The challenges involved in building a comprehensive energy management system for the client's facilities included:

- ☑ Limited availability of electrical circuit design made energy consumption tracking difficult.
- ☑ Assets were spread across multiple buildings at the manufacturing site, making it difficult to monitor and analyse energy profiles.
- ☑ Unmonitored energy consumption at a granular level led to wastage and energy cost overruns.
- ☑ The absence of dedicated energy measuring devices made it difficult to segregate energy consumption within facilities.
- ☑ The unavailability of updated electrical drawings made it challenging to trace electrical supply for machines and facilities.

LTIMindtree Solutions

Connected multiple assets to gather energy data after careful assessment of Internet of Things (IoT) based Wi-Fi sensors and smart meters.

Enabled real-time collection of energy consumption data using Wi-Fi-enabled sensors.

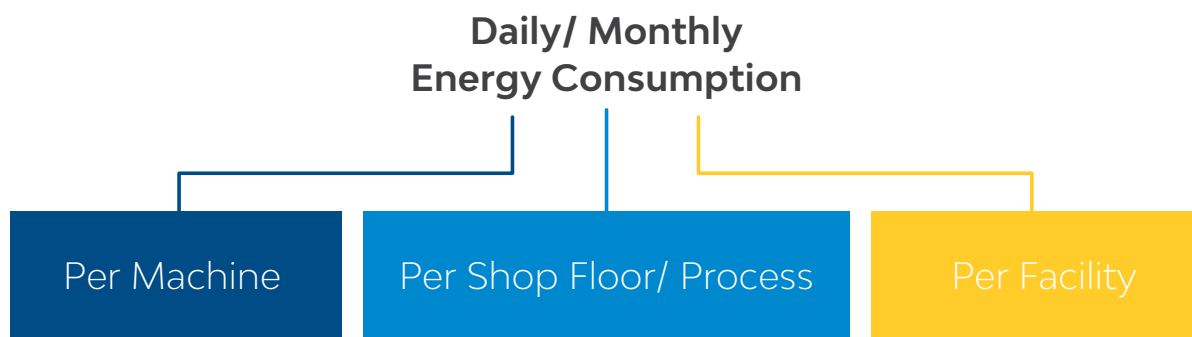
Ensured reliability and completeness of data captured and provided alternate methods of collecting data in case of sensor malfunction.

Generated an energy profile through data collected and segregated energy usage on asset, process and facility level.

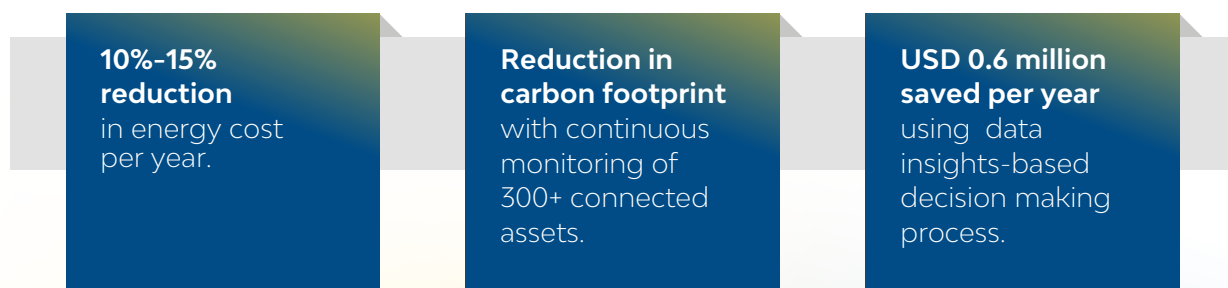
Designed and implemented a descriptive analysis to provide intuitive dashboards with actionable insights for cost savings.

Installed alarms that warned of high energy consumption from over usage, unattended maintenance schedules and operational inefficiencies in the system.

KPIs Monitored



Business Benefits



LTIMindtree is a global technology consulting and digital solutions company that enables enterprises across industries to reimagine business models, accelerate innovation, and maximize growth by harnessing digital technologies. As a digital transformation partner to more than 700+ clients, LTIMindtree brings extensive domain and technology expertise to help drive superior competitive differentiation, customer experiences, and business outcomes in a converging world. Powered by nearly 90,000 talented and entrepreneurial professionals across more than 30 countries, LTIMindtree — a Larsen & Toubro Group company — combines the industry-acclaimed strengths of erstwhile Larsen and Toubro Infotech and Mindtree in solving the most complex business challenges and delivering transformation at scale. For more information, please visit www.ltimindtree.com.