

Case Study

ZenConnect at QSR



About

The customer is a leading QSR chain operator in India having multiple outlets spread pan India

Customer Profile



1000+
Outlets in
India



Rs.100 Cr+
Annual Electricity
Expenses



Present in
250+ Indian
Cities



Avg store
size 1500
sq. ft

Challenges

The customer was facing following operational challenges:

- Lack of visibility into energy consumption leading to huge energy bills
- Frequent food wastage due to lack of optimal food safety compliances
- Lack of visibility into comfort compliances like temperature, humidity, etc.
- Lack of visibility into asset health & predictive maintenance leading to unpredictable breakdowns
- Lack of visibility into low power factors and current imbalances



Solutions Provided

- Automated switching schedules of multiple assets to reduce energy consumption.
- Provided real time monitoring of temperature in chillers and cold rooms to ensure food safety & energy efficiency.
- Indicated poor insulation issue in cold room. The temperature was increasing rapidly by $\sim 1.8^{\circ}\text{C}$ per minute during non-operational hours.
- Improved visibility for central corporate governance through Zenatix' centralized dashboard.

Benefits Delivered



Real-time monitoring and analysis of energy consumption to increase efficiency



Monitoring and automation of assets to ensure comfortable ambience



Centralized visibility into asset health, avoiding frequent breakdowns and ensuring safety



Automated various asset operations to maintain safe storage environment & reduce food spoilage



Prevented energy hazards by providing automated alerts of low power factor or current imbalances.

Key Results

10%

Improvement in Energy Efficiency

23%

Improved Customer Comfort

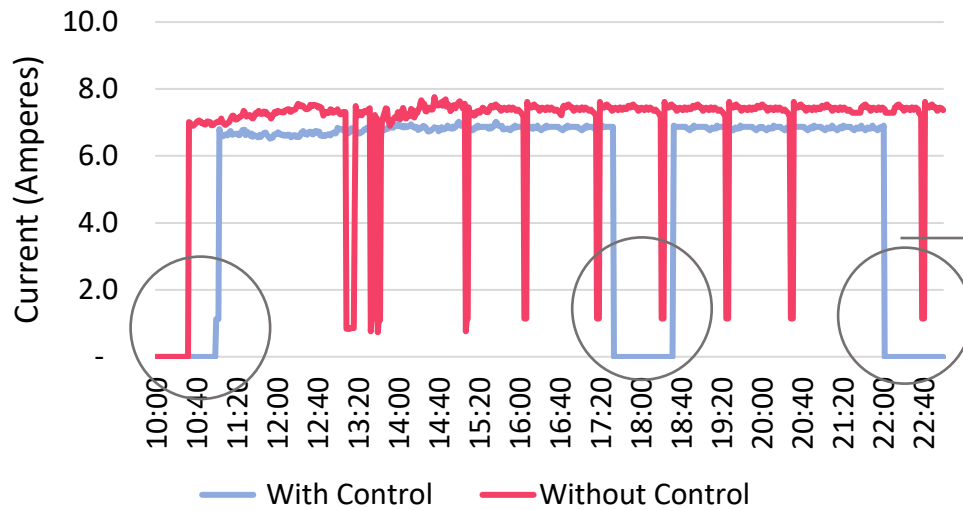
30%

Reduction in Food Spoilage



Inefficient Operations

AC operation - Schedule based



Without controls:
AC was operating outside operational hours

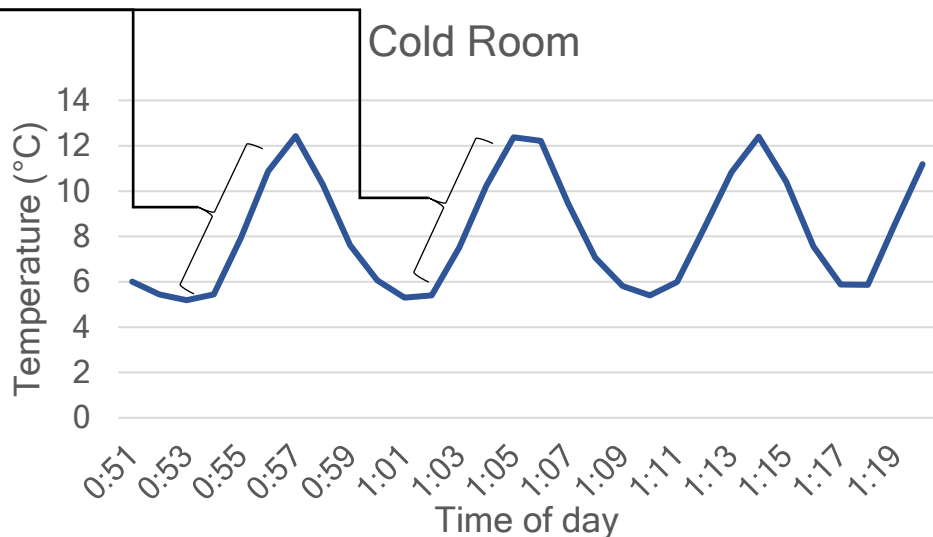
With controls: AC is automatically switched on and off depending on operational hours

ZenConnect reported assets running out of operational hours & helped automate their operations

Asset Health

Temperature inside the cold room is increasing by almost 1.8°C per minute due to poor insulation leading to increased energy consumption.

This was highlighted to the store for maintenance.



ZenConnect reported poor insulation issue in cold room leading to energy losses



by **Schneider** Electric

Zenatix by Schneider Electric is the leading provider of IoT-powered automation and monitoring solutions for commercial buildings. Our end-to-end IoT technology employs a wireless-first and plug-and-play approach, which delivers energy efficiency, enhanced occupant comfort and improved asset management in buildings. We excel in intelligent automation and optimization of HVAC operations, asset management, indoor air quality, and other building systems.

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