

Case Study

ZenConnect at Warehouses



About

The customer is
India's largest and
most comprehensive
Information
Management
Company having
multiple warehouses
spread across India

Customer Profile



3,000+
Customers



25+
Warehouses



12 Mn+ Sq Ft
Storage Area



300+
Locations
Pan India

Overview

The customer was facing following operational challenges:

- Lack of temperature and humidity compliance leading to lower shelf life of stored documents
- Lighting and exhaust systems are running out of operational hours, resulting in energy waste
- Lack of centralized visibility into energy consumption & sub-optimal operation of assets
- Unpredictable breakdowns due to a lack of visibility into asset health and predictive maintenance
- Lack of visibility into low power factors, load division and current imbalances



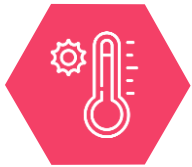
Solution Provided

- Deployed our battery-powered sensors throughout the warehouse to monitor the required temperature of 23°C without any manual effort. It is critical for the customer's ability to safely store bank documents.
- Lighting and exhaust fan operations were scheduled depending on operational hours, eliminating the need for manual intervention & resulting in energy savings.
- Deployed our sensors to monitor Solar Panels, DG Incomers, EB Mains, UPS etc. and a centralized dashboard was created.
- Monitoring & control of the operations of 5+ Ductable ACs & 10+ Tower Acs, to improve energy efficiency.

Benefits Delivered



Detailed analysis of energy consumption at equipment level



Monitoring and automation of assets like HVAC system to ensure safe storage environment



Centralized visibility into health of assets like HVAC system, DG, etc.



Automated alerts for events like high voltage, unbalanced load division & current imbalances, etc.

Key Results

10%

Improvement in Energy Efficiency

22%

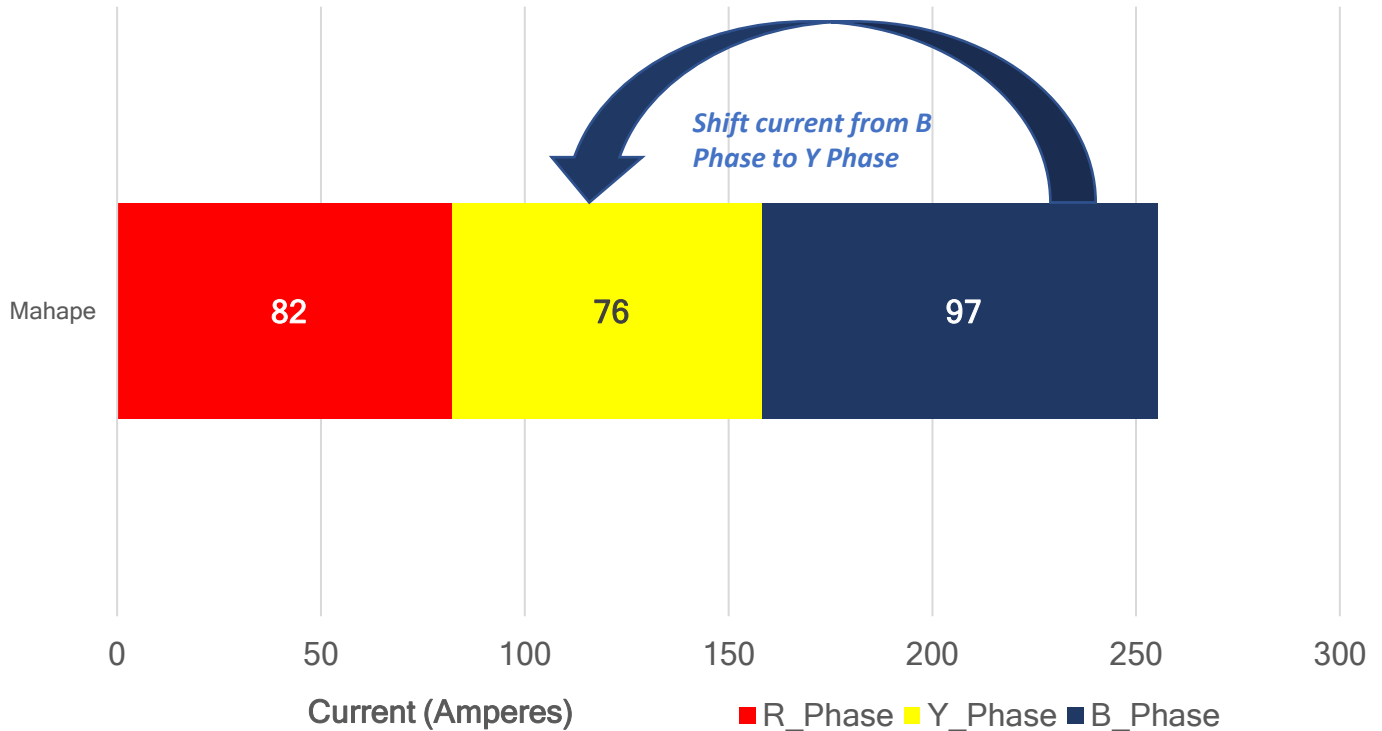
Increase in Safety of Goods

16%

Reduction in Asset Breakdowns



Load Division



ZenConnect helped report unbalanced load division & reduced safety hazards

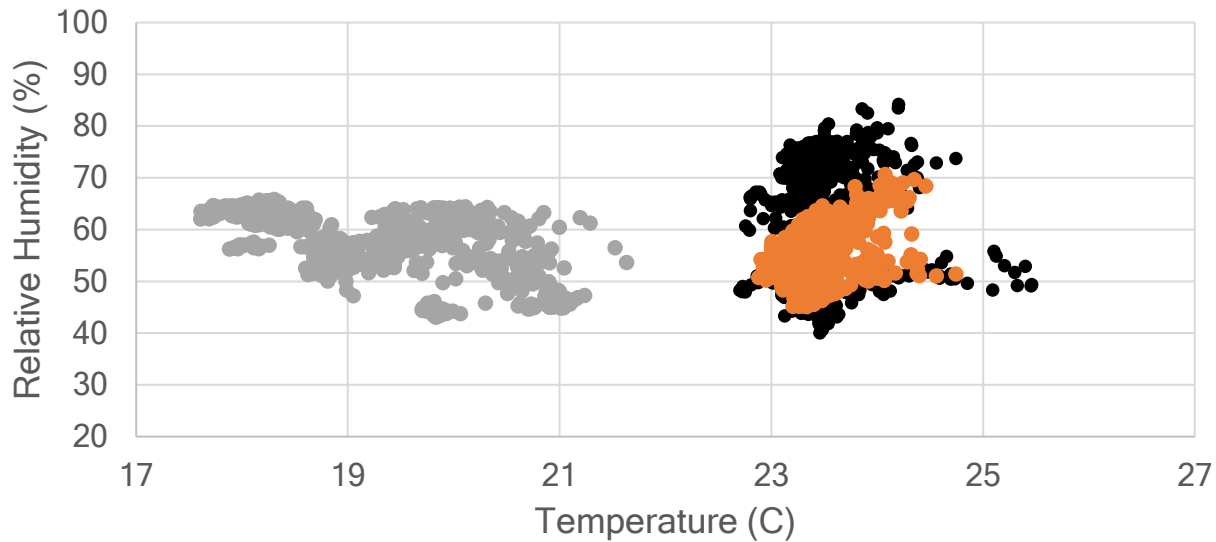
Energy Consumption

Month	Without ZenConnect (Year X) (In kWh)	With ZenConnect (Year X+1) (In kWh)
January	36,723	31,718
February	34,202	31,291
March	43,886	40,139
Total	114,811	103,147

ZenConnect helped reduce energy consumption significantly



Temperature and Humidity @ Media Rooms

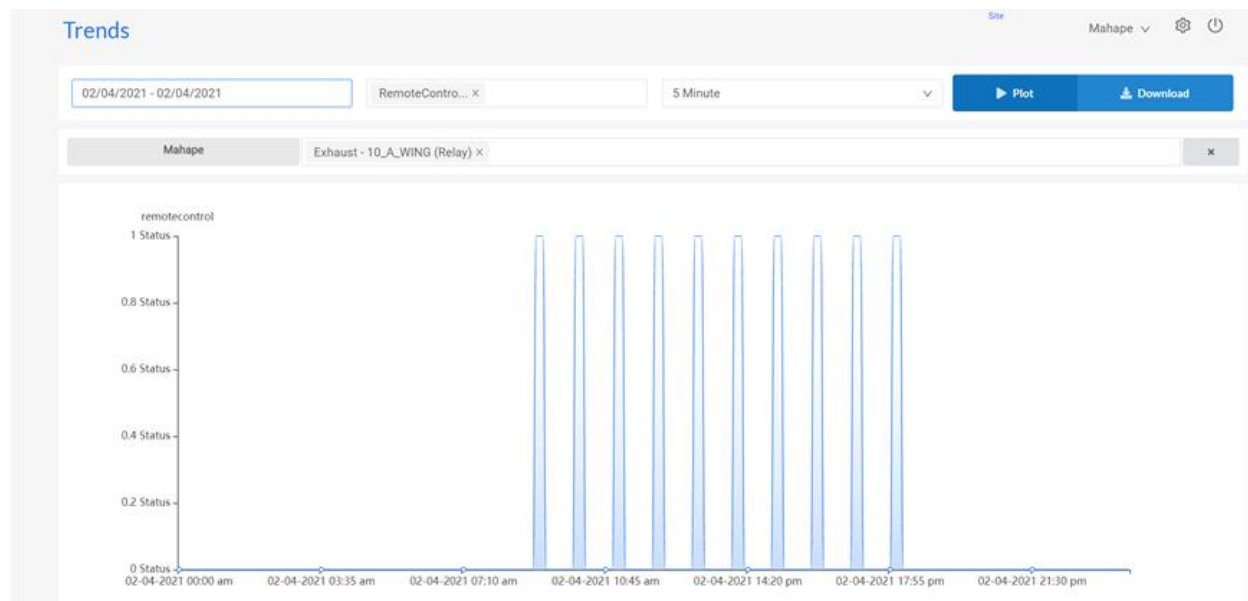


● 1F_MEDIA_ROOM ● 2F_MEDIA_ROOM ● 3F_MAIN_MEDIA_ROOM

ZenConnect helped maintain temperature and humidity compliances in all media rooms

Note: Important documents are stored in media rooms, and temperature/humidity controls are critical.

Automating operation of Exhaust and fresh air fans



ZenConnect ensured that all exhaust and fresh air fans were operating according to the defined schedule





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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