

Case Study

ZenConnect at Retail



About

The customer is a leading sporting goods retailer in India having multiple stores spread across India

Customer Profile



Rs 10 Cr+
Annual Electricity
Expense



60+ stores
pan India



5+ Indian
Cities



25k sq. ft.
Avg Store
Size

Challenges

The customer was facing following operational challenges:

- Huge energy expenses due to manual operations of lighting, HVAC and controls.
- Lack of centralized visibility into solar power generation and its export back to the energy grid, across multiple stores
- Lack of comfort compliances like store's temperature, humidity, air quality, CO2 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

- Identified the equipment like HVAC and lighting circuits operating outside operational hours (leading to energy wastage) by monitoring consumption pattern
- Deployed AQI, temperature, humidity, CO2 sensors to improve air quality and maintain compliances.
- Deployed bi-directional meters and created automated reports to track solar power generation and its export back to the energy grid.
- Sites with low power factor were regularly highlighted to the customer to take corrective action and reduce electrical penalties.
- Sites with high current unbalance are reported which resulted in more balanced load distribution and increased electrical safety.

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



Centralized visibility of assets & their operations across multiple stores



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

Key Results

13%

Improvement in Energy Efficiency

25%

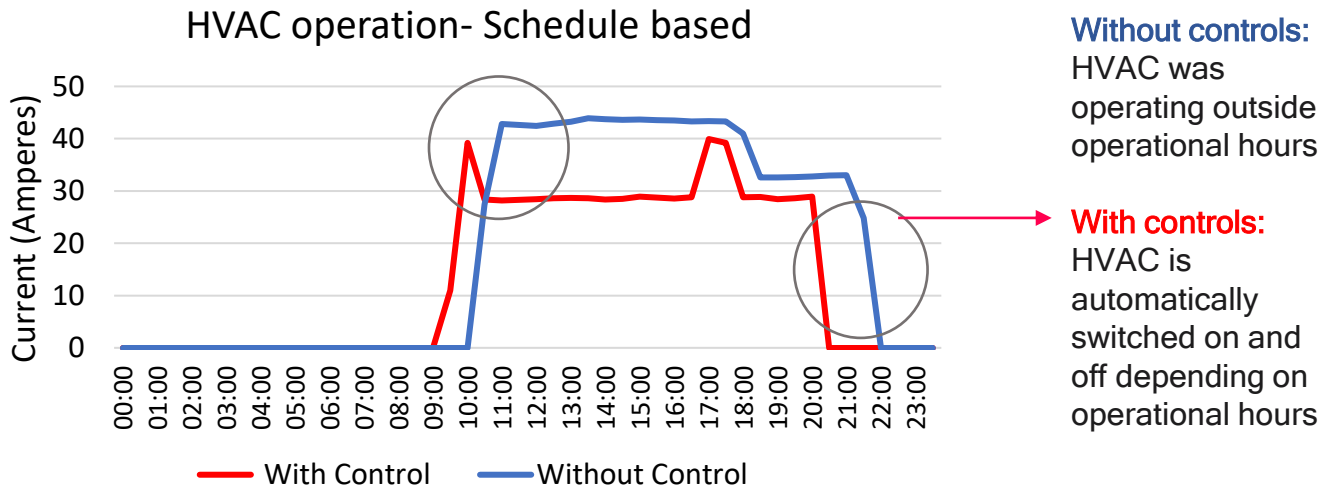
Improved Customer Comfort

19%

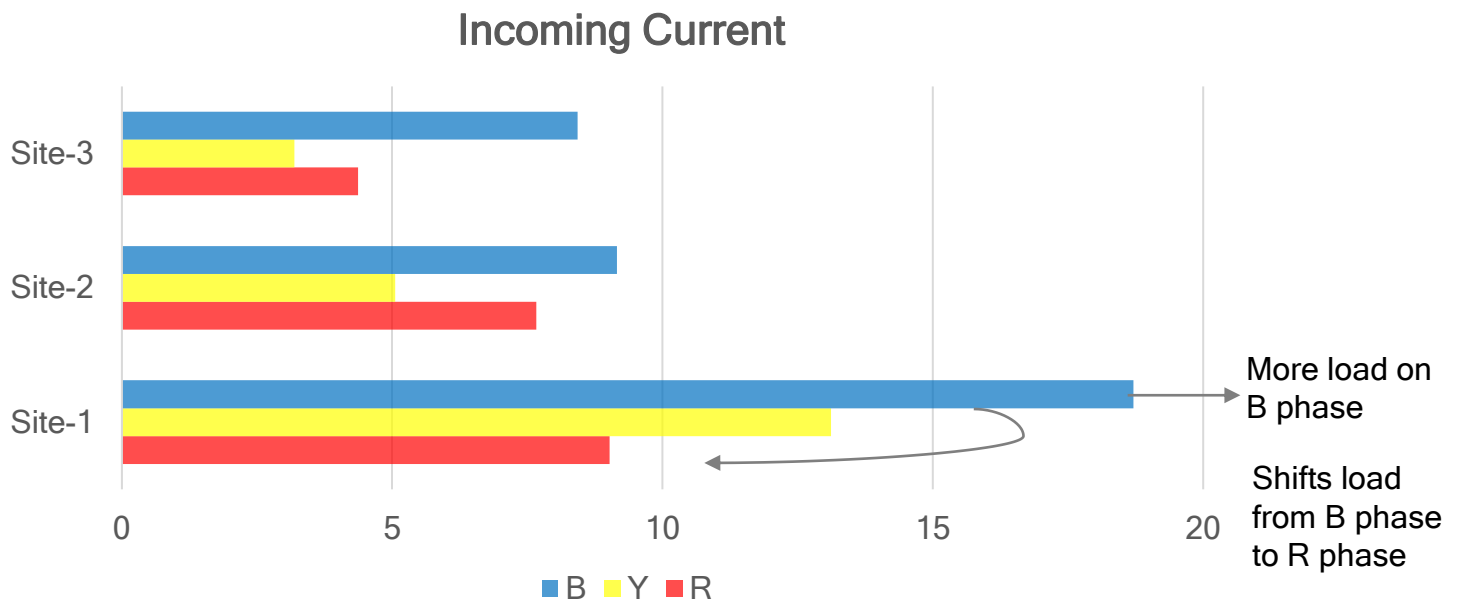
Reduction in Asset Breakdowns



HVAC Operations



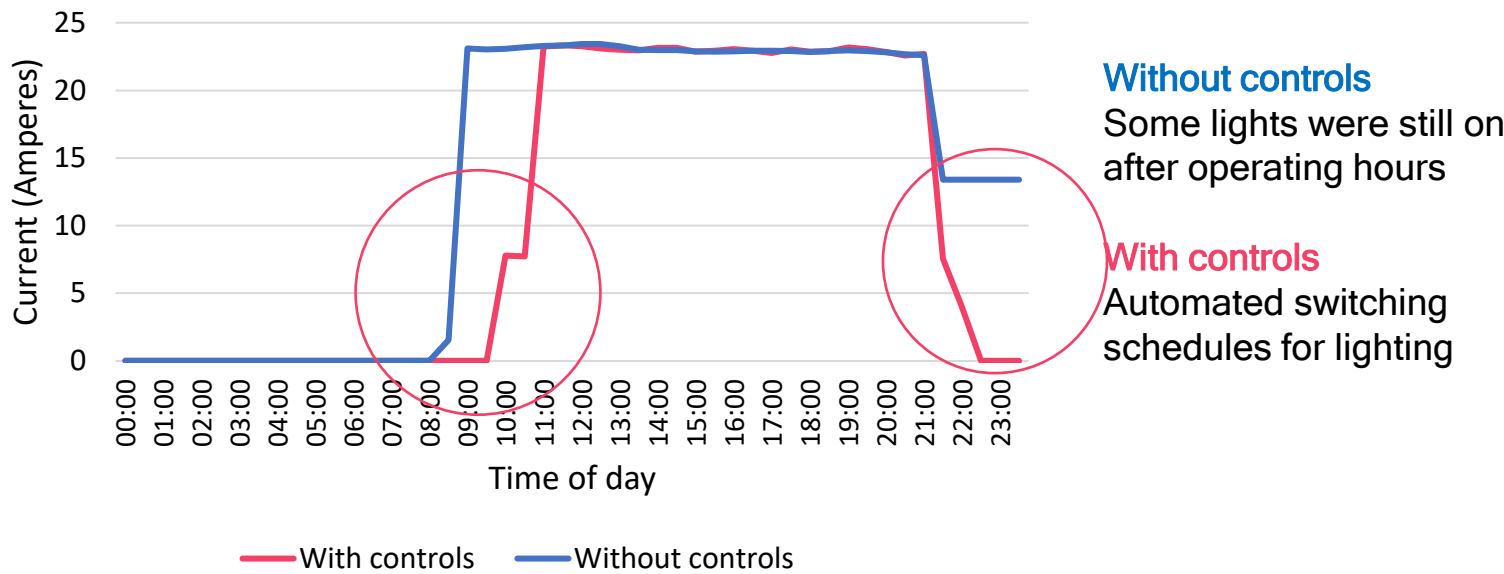
ZenConnect reported HVACs running out of operational hours & helped with schedule-based controls to automate their operations



ZenConnect reported unbalanced load division & reduced safety hazards

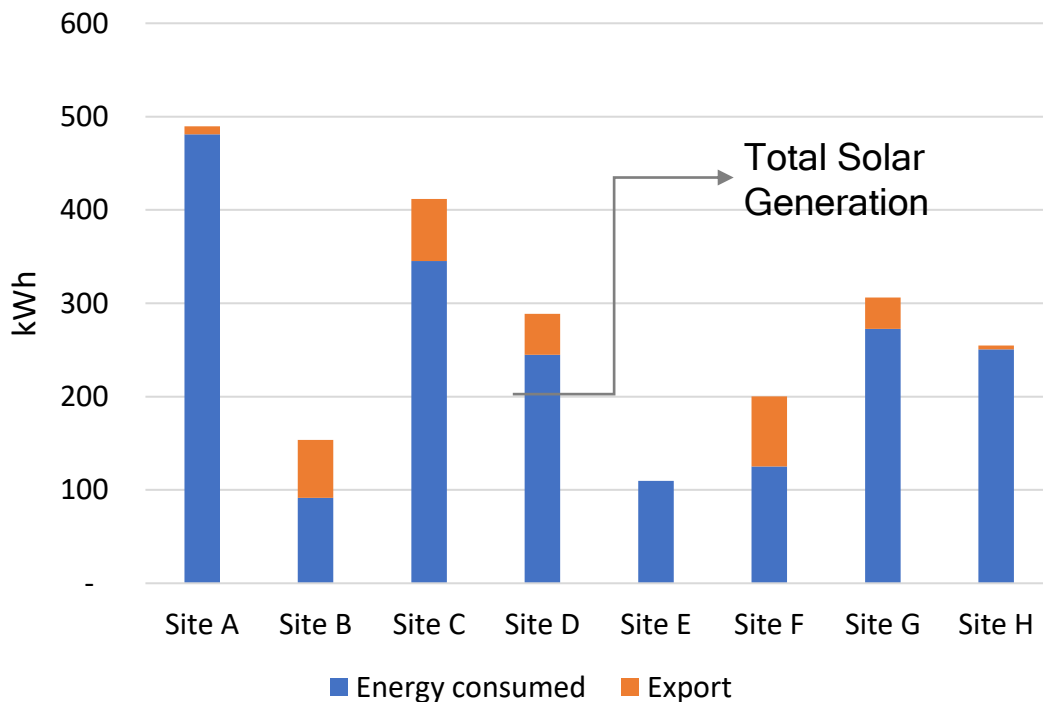


Lighting operation



ZenConnect reported lighting running out of operational hours & helped with schedule-based controls to automate their operations

Net Solar Generation



ZenConnect enabled centralized monitoring of actual energy import/export to the DISCOMs & ensure that you pay what you really owe to the DISCOMs





by **Schneider** Electric

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Contact

info@zenatix.com

[+91 11 4084 4800](tel:+911140844800)

Office

5th Floor, Building 8C,
Cyber City, Gurugram,
India

Follow us on:

