

Case Study

ZenConnect at Multiplexes



About

The customer is a leading multiplex operator in India having multiple multiplexes spread pan India

Customer Profile



1.5 Lakh
Seats



600+
Screens



150+
Multiplexes



60+
Indian
Cities



70 Mn
Guests
Annually

Challenges

The customer was facing following operational challenges:

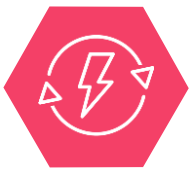
- Lack of visibility into energy consumption & sub-optimal operation of assets
- Low comfort compliances (excessive cooling) due to manual operations
- Inefficient processes that rely entirely on manual control of various assets of the multiplex
- Lack of visibility into low power factor and current imbalances
- Unpredictable breakdowns due to a lack of visibility into asset health and predictive maintenance



Solution Provided

- Automated operations to ease the manual/operational overheads.
- Centralized platform for monitoring and control across distributed multiplexes
- Deployed temperature and humidity sensors for better guest comfort in the multiplex
- Automated monitoring of energy helped improve avg power factor of 0.95.
- Controlled 18 AHUs, 18 chilled water actuators, 10 VFDs, interior lighting & monitored 3 chillers.
- Integrated their 13 existing & 5 new energy meters for mains, AHUs and chillers.

Benefits Delivered



Real-time monitoring and analysis of energy consumption to identify energy saving opportunities



Automated asset operations using intelligent controls



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



Monitoring and automation of assets like HVAC system to ensure comfortable ambience



Prevented bill penalties & energy hazards by providing automated alerts of low power factor, current imbalances, etc.

Key Results

11%

Improvement in Energy Efficiency

25%

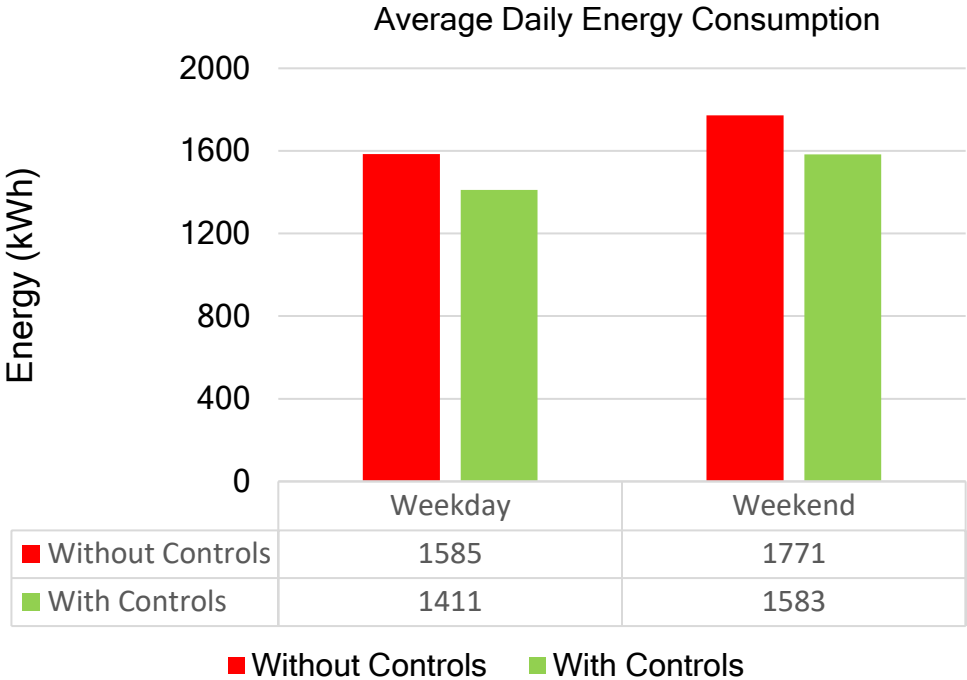
Improved Customer Comfort

18%

Reduction in Asset Breakdowns

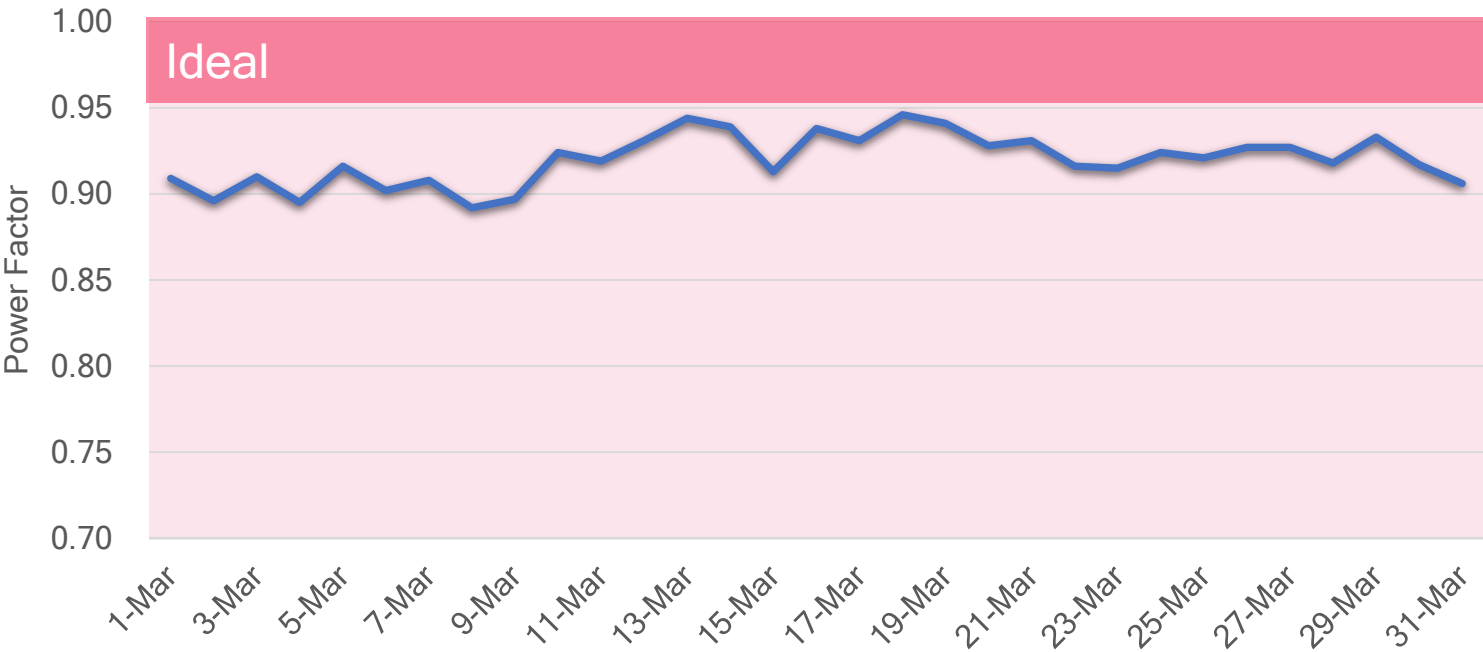


Energy Consumption



ZenConnect helped reduce energy consumption by ~11% during operational hours.

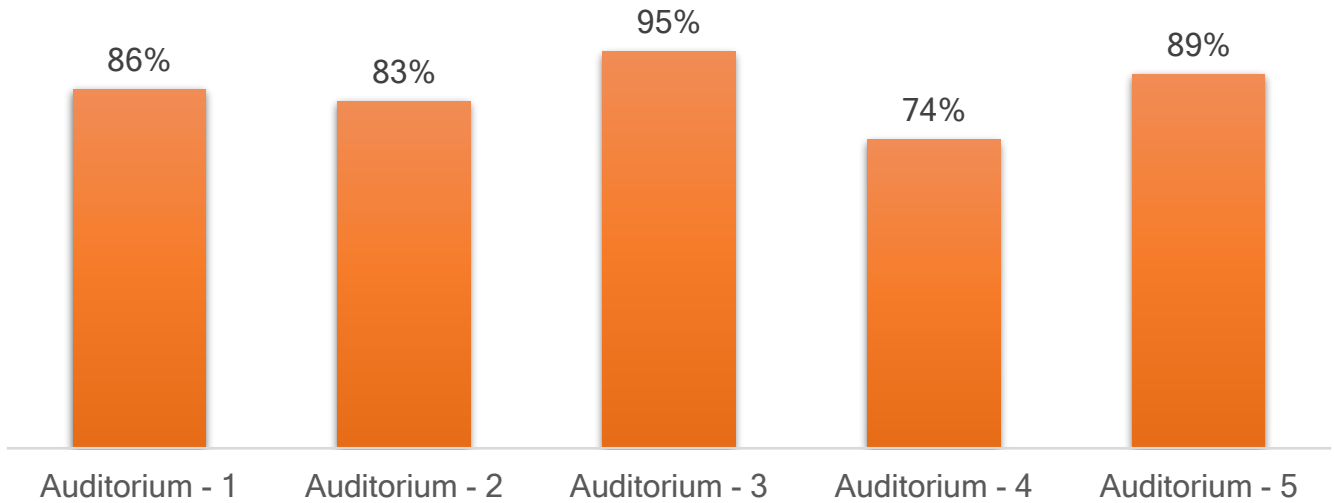
Power Factor



ZenConnect reported lower power factor outside ideal range. It helped avoid electricity bill penalties

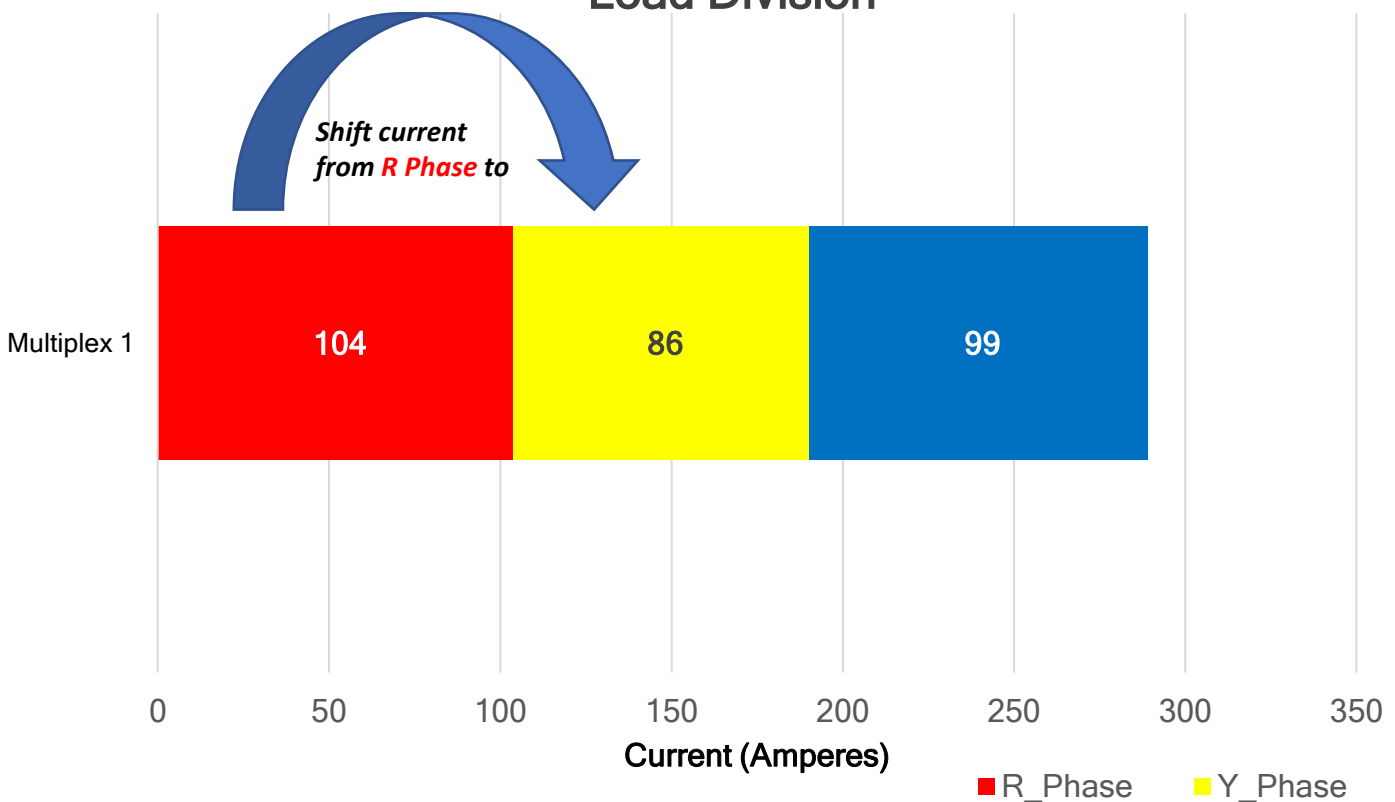


Temperature Compliance %



ZenConnect monitored the auditorium temperature compliance (23-26 °C) during operational hours.

Load Division



ZenConnect reported unbalanced load division & reduced safety hazards



by **Schneider** Electric

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