

Case Study

ZenConnect at Coworking Space



About

The customer is a leading coworking space provider in India having multiple facilities across India

Customer Profile



60+
workspaces
in India



Rs.3 Cr+ annual
electricity
expenses



Presence
across 5+
cities in India



Avg property
size 1 Lakh+
sq. ft

Challenges

The customer was facing following operational challenges:

- Lack of visibility into energy consumption leading to high energy bills
- Higher CO₂ level leading to lower occupant comfort and lesser productivity
- Lack of visibility into fresh air & exhaust run hours
- Lack of comfort compliances like temperature, humidity, etc.
- Lack of visibility into asset health & predictive maintenance leading to unpredictable breakdowns
- Low power factor and current imbalance issues



Solutions Provided

- Controlled 30+ ductable air conditioners to automate the operations, optimize energy consumption and manage HVAC asset health.
- Controlled 10+ TFAs based on inputs from CO₂ sensors, to provide fresh air inside the building.
- Automated switching schedules of multiple assets to reduce energy consumption.
- Provided real time monitoring of temperature, humidity and CO₂.
- Provided real time monitoring of energy consumption, phase balancing, power factor to ensure electrical health and safety.
- Ensured central governance by driving visibility into asset health through centralized Zenatix' dashboard.

Benefits Delivered



Real-time monitoring of energy consumption on a centralized dashboard



Monitoring and automation of assets to provide better occupant comfort



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



Automated various asset operations to maintain optimum temperature and CO₂ compliances



Prevented electricity board penalties by providing automated alerts of low power factor

Key Results

10%

Improvement in Energy Savings

23%

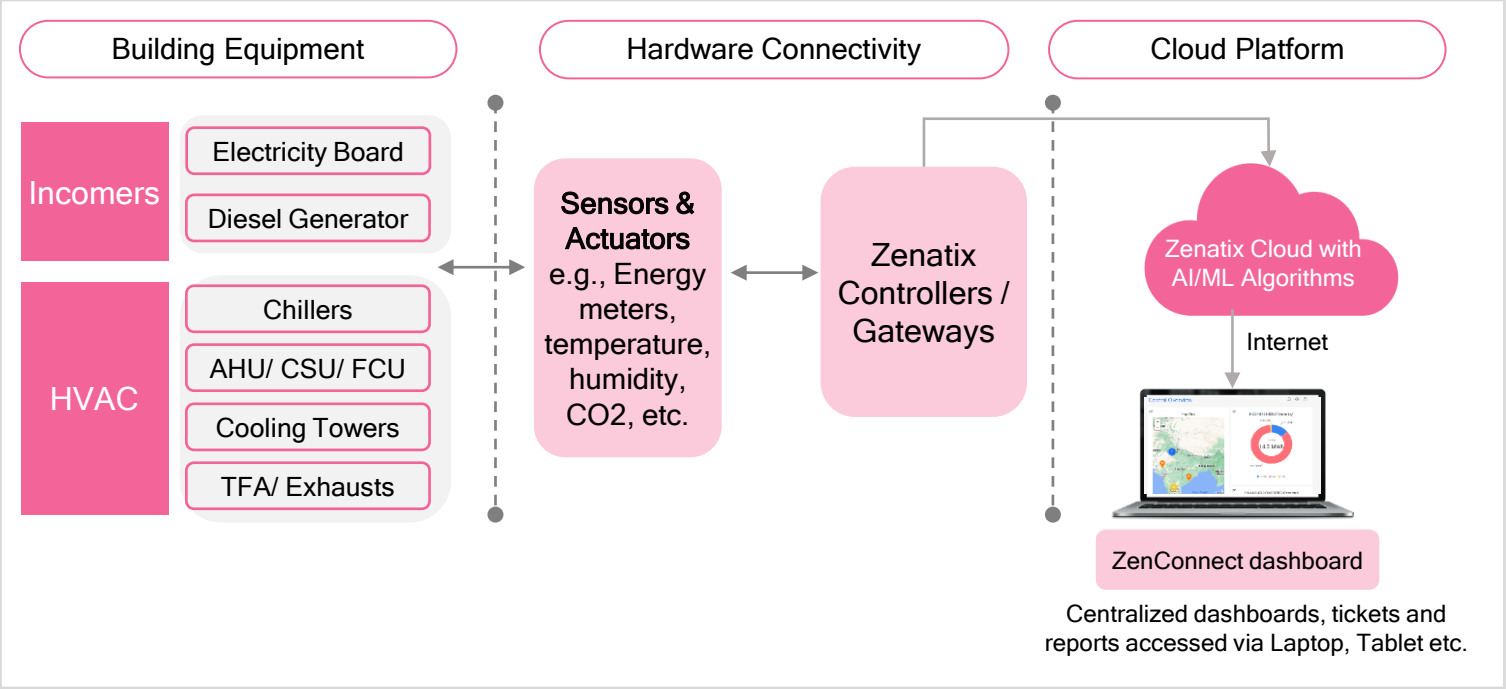
Improved Customer Comfort

20%

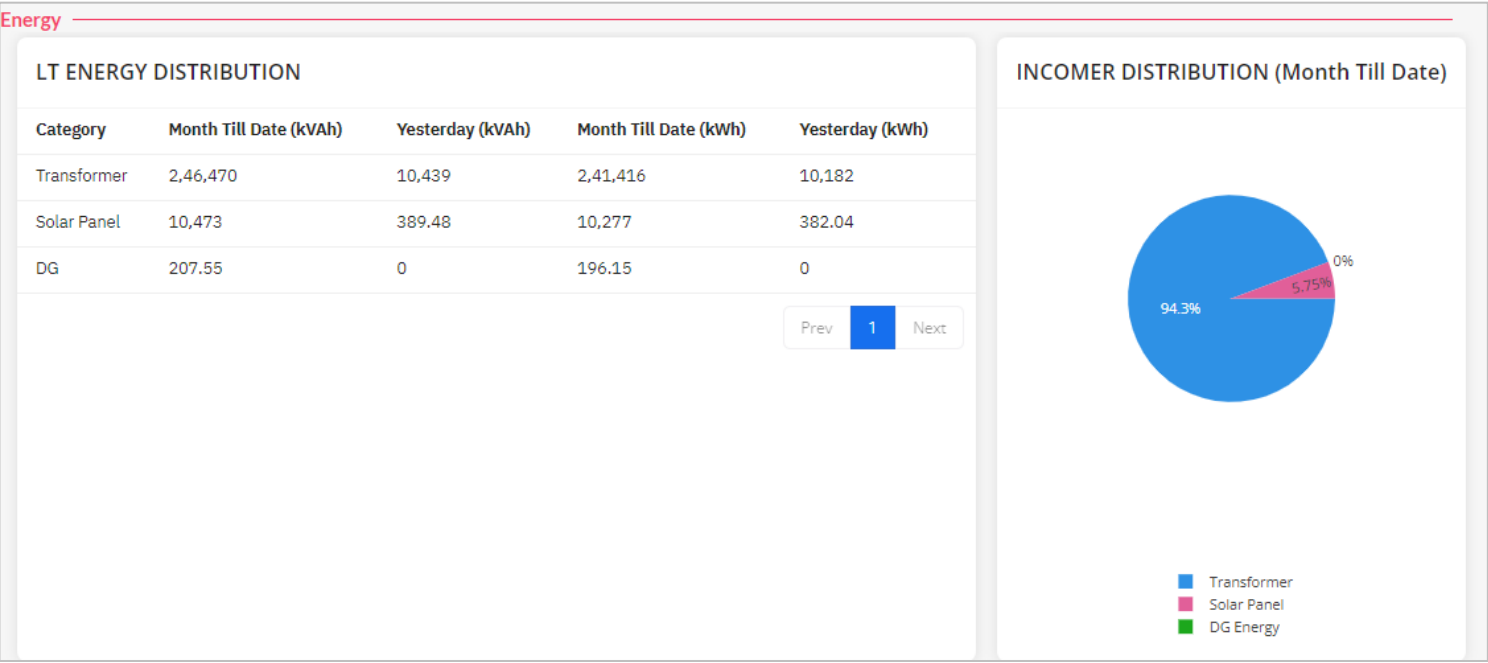
Reduction in equipment breakdown



ZenConnect system architecture



Energy Monitoring across all power incomers (EB, DG)



Controlling Ductable Acs and TFAs



A Hero Electronics Venture

View / Add Controls

Bulk Control

Control Override

Control Status

Dashboard

View / Add Controls

Delhi

AHU - 11_EQUIPMENT_HOL...

Nov 2021

<

>

Today

MONTH

YEAR

Add Controls

SUN	MON	TUE	WED	THU	FRI	SAT
31 2:00 PM : ON +2 more	01 2:00 PM : ON +2 more	02 2:00 PM : ON +2 more	03 2:00 PM : ON +2 more	04 2:00 PM : ON +2 more	05 2:00 PM : ON +2 more	06 2:00 PM : ON +2 more
07 2:00 PM : ON +2 more	08 2:00 PM : ON +2 more	09 2:00 PM : ON +2 more	10 2:00 PM : ON +2 more	11 2:00 PM : ON +2 more	12 2:00 PM : ON +2 more	13 2:00 PM : ON +2 more
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28 2:00 PM : ON +2 more	29 2:00 PM : ON +2 more	30 2:00 PM : ON +2 more	01 2:00 PM : ON +2 more	02 2:00 PM : ON +2 more	03 2:00 PM : ON +2 more	04 2:00 PM : ON +2 more

Monitoring Power factor and current unbalance

Central Analytics

POOR POWER FACTOR

Building	Power Factor
...	0.706
...	0
...	0
...	0.908
...	0.973
...	0.963
...	0.976

CURRENT BALANCING REQUIRED

Building	Current Unbalance
...	51.61
...	11.51
...	39.22
...	10.61
...	23.02
...	13.61
...	23.48

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Zenatix is a leading provider of IoT-powered energy and asset management solutions for small and mid-sized buildings. Our end-to-end IoT technology employs a wireless-first and plug-and-play approach, which delivers energy efficiency, operational efficiency and increased occupant comfort. We excel in intelligent automation and optimization of HVAC operations, asset management, indoor air quality, and other building systems for small and mid-sized buildings.

Visit us at www.zenatix.com and follow us on [LinkedIn](#) and [Twitter](#).

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by **Schneider** Electric

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