Optimizing Power Distribution & Control

Industry: Automobile

Client: Commercial Real Estate Developer, Bengaluru, India

The Challenge

- ✓ No central control of electrical systems
- ✓ Delayed fault detection
- ✓ Uncontrolled energy usage
- ✓ Manual backup management

Our Approach

We connected **machines to a smart IIoT platform to:**

- ✓ Smart IoT-based automation of HVAC & lighting
- ✓ Centralized energy dashboards
- ✓ Auto fault detection via PLC
- ✓ Load balancing & energy optimization

Key Solutions

- ✓ Smart IoT Switchgear
- ✓ SCADA + Real-Time Load Analysis
- ✓ Auto Fault Alerts & ATS Control
- ✓ Predictive Energy Dashboards

Tech Stack

SIEMENS | Schneider Electric | scada | MQTT | Grafana

Impact Summary

Metric	Before	After
Energy Monitoring	Manual/Isolated	Real-Time Centralized
Fault Detection Time	1–2 Hours	Instant Alerts
Backup Optimization	Poor	2× Efficiency
Energy Consumption	High	Reduced by 35%

Results at a Glance

35%	50%	100%	2X
lower energy bills	faster fault resolution	facility-wide control	improved backup usage

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