LIVE THE ADVANTAGE

Powering Growth. Built for the Future.

Enabling Scalable Power Infrastructure for a Leading Hyperscale Data Center Campus

PROJECT OVERVIEW

A major hyperscale data center campus in Pune is being developed as part of a national **1 GW** data center platform being built across India.

As part of the phase 1 rollout, Legrand delivered an integrated power distribution architecture across two facilities, supporting approximately **96 MW** of capacity.

PROJECT HIGHLIGHTS

250 MW
Total Campus Power Capacity

96 MW
Phase 1 Power Capacity

2
Facilities

40
Data Halls

8,600+
Tap-off Points

THE CHALLENGE

The Pune facility's multi-phase expansion pressured deployment timelines and infrastructure coordination. Traditional cabling would have complicated installation, wasted space and restricted live-environment modifications.

Campus Expansion

Design infrastructure to support a large-scale, multi-phase campus development.

Increasing Capacity

Deliver high-capacity power distribution for dense and mission-critical IT loads.

Cable Complexity

Manage extensive cable requirements with space, weight and routing constraints.

Future Flexibility

Ensure flexibility and adaptability to support future technologies and growth.

THE LEGRAND APPROACH

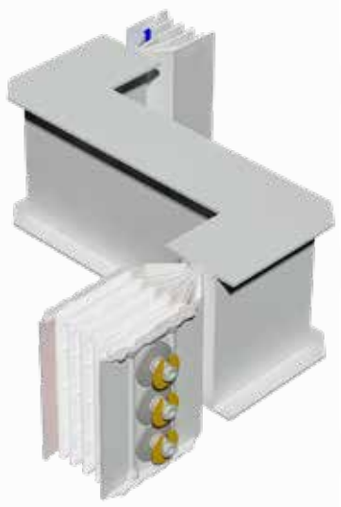
Legrand Data Center Solutions delivers integrated infrastructure solutions that help data centers scale with confidence. Combining engineering expertise with a portfolio spanning critical power, cooling, connectivity and intelligent infrastructure, Legrand supports every stage of the data center lifecycle.

For this project, Legrand delivered an end-to-end power distribution solution, managing everything from design and engineering through installation, testing and commissioning.

Design → Engineering → Supply → Installation → Testing → Commissioning

The solution combined Zucchini Busbar Trunking, which forms the high-capacity power backbone, with Starline Track Busway, which provides flexible power distribution within the data halls. Together, they create a modular architecture that simplifies deployment, supports phased expansion and adapts to changing infrastructure requirements.

ZUCCHINI BUSBAR TRUNKING SYSTEM



High Current Capacity
Supports high power distribution needs.

Space Optimized
Compact design for efficient space utilization.

Reliable & Safe
Proven system with high safety and reliability.

Flexible Configuration
Easy to adapt to complex layouts.

Seamless Power Distribution

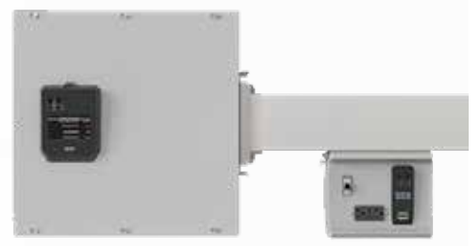
STARLINE TRACK BUSWAY SYSTEM

Plug & Play Flexibility
Quick and easy tap-off anywhere along the track.

Scalable & Reconfigurable
Supports future growth and changes.

Reduced Installation Time
Faster deployment with minimum disruption.

Enhanced Safety
Enclosed system for maximum protection.



BUILT FOR GROWTH, ENGINEERED FOR PERFORMANCE

The facility was planned as a four-phase build, moving from initial development through capacity expansion, campus scale-up and future capacity. This staged roadmap lets the operator match investment to actual demand rather than overbuilding upfront, and is enabled by modular, adaptable systems that absorb evolving IT loads and layouts without rework compressing time-to-power at each stage.

Reliability is engineered into the flow itself. Power moves from the utility through high-capacity busbar trunking into the electrical rooms, distributes through LV switchboards and protection and reaches the racks via reconfigurable Starline busway.

The result is a high-availability, high-efficiency backbone that meets today's mission-critical demands while leaving clear headroom for next-generation workloads.

PROJECT OUTCOMES

Faster Infrastructure Rollout
Delivered across two G+4 facilities, the modular architecture simplified installation and supported phased deployment across the campus.

Simplified Expansion
Scalable infrastructure accommodates future growth with minimal operational disruption.

Greater Operational Flexibility
With 8,600+ tap-off points, the Track Busway system enables easier adds, moves and changes across the data halls.

Cleaner Infrastructure Environment
Approximately 6.7 km of Zucchini Busbar Trunking helped reduce cable congestion while creating a structured, easier-to-maintain power distribution backbone.

Reliable Power Distribution
Approximately 20 km of Starline Track Busway delivers flexible, high-capacity power distribution across the white space, supporting mission-critical workloads.

Built for Long-Term Growth
The scalable foundation reliably supports future client expansion and demands.

WHY THIS PROJECT MATTERS

This project demonstrates Legrand’s ability to deliver integrated infrastructure solutions at hyperscale.

Rather than supplying individual products, Legrand delivered a coordinated power distribution architecture designed to support performance, scale and reliability across a rapidly expanding data center environment.

Krishna Raj
National Head – Sales
Legrand Data Center Solutions India