TECHNAVIOUS™
Blueprint to Benchmark for Data Centers

Redundancy Restored. Outages Eliminated.

Business Objective

Business Challenge A 50-rack data centre with N+1 electrical and cooling redundancy suffered 40–50% rack shutdown during a planned primary UPS maintenance bringing 20–25 production racks offline for 8–9 hours, causing significant manufacturing downtime.

BUSINESS NEED

Identify the Root Cause of Unplanned Shutdown	• Determine why racks on a redundant N+1 system went offline during a single-source maintenance event.
Restore Proper Power Redundancy	• Correct the distribution of primary and secondary power sources across all 50 racks to ensure true redundancy.
Prevent Recurrence Through Change Governance	• Implement monitoring, smart PDUs, and change management to eliminate undocumented infrastructure drift.

SOLUTION IMPACT

8-9 Hour Outage Risk Permanently Eliminated	• Root cause confirmed: both power feeds on one UPS. Fault identified and corrected before next maintenance window.
Full N+1 Redundancy Restored Across 50 Racks	• Corrected power distribution gave the client verified failover capability at every rack.
Real-Time Monitoring and Change Governance Deployed	• Smart PDUs and change management controls prevent future undocumented infrastructure drift.

Conclusion

Technavious transformed a costly production outage into a resilience milestone for the Indian automotive manufacturer. A thorough physical audit exposed a fundamental power distribution flaw invisible to the operations team, corrected it before the next maintenance window, and installed the governance framework needed to keep it that way permanently.