Railway

Global partner in rail for power supply

Linxon delivers turnkey rail electrification solutions that connect the grid to the vehicle, ensuring reliability, availability, maintainability, and safety (RAMS) while supporting sustainability goals. By integrating advanced technologies and comprehensive services, we provide efficient, future-ready systems tailored to the evolving needs of modern rail networks that are locally rooted and globally connected.

Comprehensive solution for AC and DC rail electrification

- Traction power substations (built in place and containerized solutions)
- Switching and paralleling stations
- Wayside energy storage systems
- Cabling works for the feeders including AC and DC cables
- Civil and installation works
- Systems studies and traction power simulations
- Main power stations
- SCADA systems for railway applications
- Third rails and power rails from 750 V DC to 3000 V DC
- Overhead catenary system for both AC and DC application

Tailored solutions for our clients

- Skilled, reliable and committed partner for the complete portfolio for rail electrification
- Predictable and cost-efficient solutions for sustainable business
- Grid-complaint solutions
- Compact and modular design with a high degree of integration
- Compliance to EMC and stray currents
- Compliance to RAMS requirements

Flexible services for diverse needs

Powering sustainable and efficient rail from grid to vehicle

Energy efficiency

Involving use of energy-efficient equipment, optimizing power usage, and implementing energy recovery systems

Optimized design

Cost-effective design using advanced design tools and conducting simulation studies

Digital solution

Digital twins for power systems, moving from time-based maintenance to criticality-based maintenance

Increase reliability

Reliability analysis for the equipments procured and best practices in installation

Partial upgrade

Improving performance of the rail system without disrupting the entire operation during partial upgrade and retrofit

Reduced interface

Multi-disciplinary coordination interface management plans, ensuring smooth integration of various subsystems

Our expertise

AC and DC applications

- Delivered DC wayside traction and auxiliary substation
- Delivered AC traction substation for 25 kV OHE system
- Delivered third rail projects at 750 V DC and a 25 kV OHE project

Experience and delivery

- Multiple projects delivered and under revenue operations
- Track record in delivering complex rail electrification projects across global markets
- Projects in progress Urban Mass Transit and Regional Transit System

System engineering and integration

- Traction simulation of 750 V DC and 25 kV OHE system
- Interface management with multiple stake holders
- Requirements and configuration management