

Strengthening DC Traction Power Networks



“Switchgear Maintenance and Upgrades”

CAPABILITIES

AMI offers complete 'TURNKEY' solutions, managing every stage in-house for comprehensive traction power and switchgear renewals. Our services cover everything from transformer rectifiers, DCCBs, NSCDs, ICTS, and all traction power equipment to conductor rails. Our experienced engineering team oversees every aspect of the project, including resourcing, design, installation, pre-commissioning, commissioning, and hand-back. Additionally, AMI provides full decommissioning and removal of outdated equipment, followed by the seamless installation of new systems. Each phase is carefully supervised by our expert engineers to ensure quality and efficiency at every stage.



THE DELIVERABLES

- Deliver precise equipment design and installation tailored to system specifications.
- Decommission and safely remove life-expired DC switchgear, ensuring minimal operational disruption.
- Install, test, and commission new DC switchgear to meet the highest performance standards.
- Prepare and submit all necessary pre-commissioning documentation to ensure smooth project progression.
- Conduct thorough on-site pre-commissioning tests of new DC equipment, carried out by our experienced team.
- Perform comprehensive testing of all new protection settings to ensure system safety and reliability.
- Provide complete commissioning and section proving documentation to facilitate seamless integration with the existing network.
- Support the integration of new railway innovations for traction power switchgear, managing multiple trial sites from conception through to entry into service, including comprehensive training for operational teams.

CHALLENGES & SOLUTIONS

Bringing new equipment into service while ensuring seamless integration with the existing network presents significant challenges.

This requires thorough testing of both new and interconnected equipment to confirm proper functionality across the system. A deep understanding of both current and legacy systems, combined with strong problem-solving skills, is essential to ensure that all equipment operates as intended.

The integration of new switchboard sections requires careful staging to maintain operational continuity and avoid disrupting equipment in subsequent stages. To address this, we assign dedicated engineers who manage the entire integration process. By working with a comprehensive understanding of both existing and newly commissioned equipment, our team ensures smooth integration and prevents any conflicts between systems.

