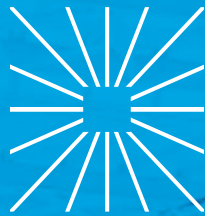


Shaping  
energy solutions

Transportation  
Key projects



- North America
- Europe
- Middle East & Africa
- Asia Pacific



### **BMRCL urban mass transit system**

**Customer:** The Bangalore Metro Rail Corporation (BMRCL)

**Location:** Bangalore, India — 2022 - 2024

#### **The challenge**

→ Supply of the complete power supply package (including third rail) for the new lines of the Phase II corridor Urban Mass Rapid Transit System in the city of Bangalore, India

#### **Scope**

- Engineering, project management, supply, erection, testing and commissioning for the complete power supply scope
- Traction substations, auxiliary substations (along with power cables), a 750 V DC third rail system and a supervisory control and data acquisition system for the complete electric traction power
- Maintenance planning system installed at BMRCL's operation control centre and integrated with the supervisory control and data acquisition system

#### **Benefits**

- Improved efficiency of power supply by almost + 10% compared with competitors
- Reduced carbon footprint and greenhouse gas emissions by around 17 million metric tons over a lifetime period of 25 years



### **Kochi Metro urban mass transit system**

**Customer:** Kochi Metro Rail Limited (KMRL)

**Location:** Kochi, India — 2022 and 2023

#### **The challenge**

- Working on operating lines for extension for existing power supply network for new stations
- Integration of existing system by third party and new system supplied by Linxon

#### **Scope**

- Design, engineering, project management, supply, erection, testing and commissioning of complete power supply scope for the extension
- Traction substations and auxiliary substations
- Power rings for the new systems
- A 750 V DC third rail system, basically a conductor rail providing electric traction power to railway trains and is placed outside of running rails

#### **Benefits**

- Single supplier which takes overall responsibility of complete traction power supply system for extension package



### **Kolkata Mass Rapid Transit System (MRTS)**

**Customer:** Rail Vikas Nigam Ltd. (RVNL)

**Location:** Kolkata, India — 2022

#### **The challenge**

- For an old metropolis like Kolkata with lingering issues of over population, congestion as well as environmental pollution, ideal transportation solution is MRTS along with supplementary feeder bus service and adequate first and last mile connectivity

#### **Scope**

- Linxon turnkey scope involves project management, engineering, supply, erection, testing and commissioning of complete power supply scope for the two corridors. The project consists 13 traction substations and auxiliary substations and a 750 V third rail system, basically a conductor rail providing electric traction power to railway trains and is placed outside of running rails

#### **Benefits**

- Once operational, the system will nourish this public-transport oriented transit feature of the city and will cater the expectation and demand of the people by providing fast, reliable, safe and modern mass transportation mode



### **Pink and Yellow monorail network**

**Customer:** MRTA of Thailand

**Location:** Bangkok, Thailand — 2021

#### **The challenge**

- Two monorail projects in Bangkok which transport millions of city commuters in the Greater Bangkok area
- Reducing air pollution and easing traffic congestion

#### **Scope**

- Bulk substation, traction and service substations and critical equipment
- Complete turnkey solution which includes engineering, supply, installation testing and commissioning
- 115 kV AC/22 kV AC/750 kV DC

#### **Benefits**

- The substation package will help power both monorail projects, thus bringing respite to millions of commuters in Bangkok, easing traffic congestion and reducing pollution
- Encourages a shift from road transport to more sustainable urban rail commuting



### **Great Western Electrification Plan**

**Customer:** Network Rail Infrastructure Ltd.

**Location:** Southern England, United Kingdom — 2020

#### **The challenge**

- In 2014, ABB Grid Integration (ABB EPC projects now delivered by Linxon) and UK Power Networks Services joined forces in a consortium to deliver a turnkey project for the creation of the new auto-transformer feeder substations (25-0-25 kV) to deliver trackside power for Network Rail's Great Western Route Modernisation (GWRM) programme

#### **Scope**

- Engineering/design, manufacture, installation and commissioning of 25 kV substations (switchgear, transformers & automation including IEC 61850 solution) along the 190 km route

#### **Benefits**

- The project is a critical element in the electrification of the Great Western railway to make travel more reliable, greener and smoother for passengers, as well as quieter for people living near the railway



### **Bangalore Metro Phase I, India**

**Customer:** Bangalore Metro Rail Corp.

**Location:** Bangalore, India — 2017

#### **The challenge**

- Turnkey power supply for the first phase of the modern Bangalore Metro, comprising two corridors – the East-West corridor of 17.9 km length with 17 stations and the 20.8 km long North-South corridor with 21 stations

#### **Scope**

- Design, supply, installation and commissioning of four distribution substations rated at 66/33 kV
- 38 auxiliary and 27 traction substations
- Transformers, switchgear, capacitors, relays and the associated cables
- SCADA (Supervisory Control And Data Acquisition) system

#### **Benefits**

- Efficient and seamless management of various parameters of the power network, high system reliability and space saving design with compact gas-insulated and air-insulated switchgear



## Delhi Metro Rail Corp, phase 1 and 2

**Customer:** Delhi Metro Rail Corp

**Location:** Delhi, India — 2013

### The challenge

→ Reliable partner for the electrification of metro line 1, 3, 4, 5 and 6 (phase I and phase II of DMRC)

### Scope

- Turnkey delivery of the complete electrification system, comprising design, supply, installation, testing and commissioning
- 370 track km of 25 kV overhead contact line and related 25 kV switching posts
- Three traction substations feeding the lines with one AC 25 kV and 150 auxiliary substations for the railway infrastructure
- SCADA system including asset and building management systems

### Benefits

- Reliable system completed ahead of schedule

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