Comprehensive solutions for rail infrastructure

Increasing rail network safety, security, and reliability
Smart transportation for smarter cities and businesses

Safe and reliable transportation is crucial for the growth of cities and success of investments, as well as the efficiency and comfort of everyday commuting. To serve the needs of authorities, people, and businesses Schneider Electric has a full portfolio of solutions, products, and services for sustainable long-distance and urban rail infrastructure.

As the global leader in energy management and automation, Schneider Electric has the experience and reach to deliver rail projects anywhere in the world while offering local expertise.
The rail market is seeing a resurgence around the world. Fast growing countries need efficient mass transit and rail freight to sustain growth, while rail is also a priority in stimulus packages in crisis economies.

High-speed rail networks will increase worldwide by 2020 by 80% and €581bn will be invested in development. Urban metro and tramway systems will follow the same trend. In Asia the total length of electrified tracks will double by 2020 - China alone will have 1,200,000 km of track.

With rail networks rapidly expanding, electricity is a critical aspect in operations, as it can amount up to 35% of OPEX for some businesses. Improving energy efficiency is therefore a core objective for rail operators.

Sources: Frost & Sullivan “Rail Outlook Study 2013-2022”; Schneider Electric customer experience
Schneider Electric rail solutions help you answer today’s challenges as well as tomorrow’s. Whether for long-distance routes, urban mass transit, remote freight, or practically any other rail network, our portfolio enhances your infrastructure and helps optimise your operational costs.

Our top priorities include sustainability, security and safety, profitability, and reliability. For our rail customers, this means:

• More energy-efficient, lower-carbon transportation
• Integrated solutions and smarter infrastructures
• Better protected and monitored critical infrastructures
• Optimised OPEX and sustainable investments
• Improved rail infrastructure reliability and uptime
• More efficient maintenance
• Intelligent modernisation strategies
This is where our solutions live:

1. TRACTION POWER
2. SIGNALLING POWER
3. STATIONS
4. PARKING
5. MAINTENANCE SERVICES
6. ENERGY MANAGEMENT SERVICES
7. OPERATIONAL AND ASSET MANAGEMENT

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This is where our solutions live:

1. **TRACTION POWER**
   Our traction power supply range provides a quality solution to improve the safety of passengers and freight.

2. **SIGNALLING POWER**

3. **STATIONS**

4. **PARKING**

5. **MAINTENANCE SERVICES**

6. **ENERGY MANAGEMENT SERVICES**

7. **OPERATIONAL AND ASSET MANAGEMENT**
This is where our solutions live:

1. **TRACTION POWER**
2. **SIGNALLING POWER**
   - We deliver proven technologies for every signalling power project, providing a low-cost and low-risk path for new innovations for both over- and underground applications.
3. **STATIONS**
4. **PARKING**
5. **MAINTENANCE SERVICES**
6. **ENERGY MANAGEMENT SERVICES**
7. **OPERATIONAL AND ASSET MANAGEMENT**
Our integrated solutions for railway stations are cost-effective to design, install, and operate. We offer a single point of control for a broad range of building systems, including access control, video security, fire protection, HVAC, and lighting.
Transportation is evolving beyond train networks. The electric vehicle is playing an increasingly important part in everyday travel and users require a means to charge their vehicles. Parking facilities are ideal locations to provide EV charging facilities to travelers.
This is where our solutions live:

1. TRACTION POWER
2. SIGNALLING POWER
3. STATIONS
4. PARKING
5. MAINTENANCE SERVICES
   Electrical equipment is a major investment, so optimising costs is vital. Schneider Electric's installed base services help increase performance throughout the life cycle on one line of any installation.
6. ENERGY MANAGEMENT SERVICES
7. OPERATIONAL AND ASSET MANAGEMENT

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1. TRACTION POWER
2. SIGNALLING POWER
3. STATIONS
4. PARKING
5. MAINTENANCE SERVICES
6. ENERGY MANAGEMENT SERVICES
   We provide extensive energy services (audits, metering solutions) and power management support which can decrease energy costs by 30%.
7. OPERATIONAL AND ASSET MANAGEMENT

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Schneider Electric asset management solutions span enterprise asset management, mobile workforce, reporting and analysis, workflow and condition management. This means we provide real-time answers for reducing costs while maximising asset reliability and performance. Organisations utilising these solutions realise an excellent return.
To ensure safety, security, and reliability, rail operators need intelligent solutions to monitor, control, and optimise the assets on the rail network. Our portfolio is perfect for mature rail infrastructures as well as the new networks. Whether you’re building, operating, or maintaining a rail network, we can help you bring greater efficiency to your rail project.

Our railway solutions

- Substation automation
- MV distribution
- Video systems
- Services
- Uninterruptible power supply
- Energy network and asset management
Meeting both regional and international requirements is essential for any reliable railway network. Thanks to extensive expertise in rail technology, Schneider Electric is able to provide best-in-class, innovative, and cost-effective electrical solutions tailored to the needs and requirements of local rail markets worldwide.

Explore the map to see examples of rail projects around the world.
For more information about Schneider Electric’s integrated solutions for railway infrastructure, visit www.schneider-electric.com/URL

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