Siemens Transportation Systems Group

A strong player on the global market – Innovative single source provider and system integrator to the railway industry

Since its formation in 1989, Siemens Transportation Systems Group (TS) of Siemens AG has emerged as one of the worldwide leading international suppliers to the railway industry. As a single-source supplier and system integrator, the Group combines in its business segments, Automation & Power, Rolling Stock, Turnkey Systems and Integrated Services, all the expertise necessary to cover the spectrum from signaling and control systems to railway electrification and rolling stock for mass transit, regional and main line services. Extensive experience in project management and forward-looking service concepts complement our portfolio. In fiscal 2006 (ended September 30), TS generated sales of EUR 4.5 billion worldwide with a staff of around 18,800. These results underscore TS’ goal to continue its sustained and profitable growth on the global railway market.

Siemens Transportation Systems in China

Siemens’ business relationships with China were established more than one century ago. Since then Siemens has always been an integral part of Chinese economy with the objective to enhance the comfort and quality of the life of the Chinese people. Due to the enormous fast economic growth in China, the complete spectrum of our life is experiencing rapid development. The need to travel safely, quickly and punctually requires efficient transportation systems, which calls for more investment as well as modern technology know-how. With our wide range of portfolio as well as our leading technical expertise, Siemens Transportation Systems sees itself as the reliable and long-term partner to accomplish these tasks.
Siemens Ltd., China has established more than 60 regional offices and over 70 operating companies in China and thus is close to the customer. As part of the China wide set-up, TS China has dedicated representatives in 7 offices including Beijing, Shanghai, Guangzhou, Shenzhen, Xi’an Zhuzhou and Nanjing, with Beijing as the head office. Together with its local partners, TS China has established three joint ventures in Xi’an, Zhuzhou and Nanjing, where the singalling and control systems, key components for locomotives, and electrification components are manufactured for the Chinese and selected export markets.

During the past ten years, TS China successfully contributed to the transportation infrastructure development and modernization throughout China including mass transit projects in Shanghai, Guangzhou, Shenzhen and Nanjing, Beijing and Dalian as well as main line projects such as the world’s longest railway electrification from Harbin in Heilongjiang province to Dalian in Liaoning province, signalling, AC locomotives and 300km/h high-speed trains.

TS China will continue to be a long-term oriented partner to the Chinese rail transportation industry by providing state-of-the-art technology and know-how transfer to meet the challenges today and tomorrow.

**Siemens TS Solutions Portfolio for China**

*Rail Automation*
We are No. 1 worldwide when it comes to rail automation systems for safe, punctual, efficient and reliable rail operation. For instance with Trainguard ® – the product family for the train control system ETCS (European Train Control System), radio-controlled operation with GSM-R or Railcom Manager for improved safety and security.

*Rail Electrification*
We ensure that railways reliably obtain the power they require. Our product range includes both AC as well as DC lines and also addresses third-rail systems. By simulating networks, we guarantee that your system operates economically from the very beginning.
**Mass Transit**
We supply tailored solutions for mass transit and regional rail traffic: From streetcar through the flexible Avanto® TramTrain up to conventional or fully automatic metro trains. We consequentially use a modular design to be able to provide more individual solutions and a higher availability at lower costs.

**Locomotives**
Our locomotives are powerful, reliable and cost-effective, ensuring profitable railway operation. With our Eurosprinter® and Eurorunner® platforms, we are offering electric and diesel-electric locomotives for all types of operations – passenger, freight or mixed traffic – proven 1,000 times over.

**Trains**
From regional trains through Intercity up to high-speed rail traffic – we address your requirements along any route. The success stories include, for example, the high-speed Velaro® train for Chinese Ministry of Railways and the Spanish Railways, as well as the Desiro® modular multiple unit for UK and Bulgaria.

**Turnkey Systems**
As turnkey experts it goes without saying that we quickly and professionally implement complete rail systems within the contractually negotiated dates and budget. No other supplier worldwide has constructed so many turnkey rail systems – for instance Guangzhou and Shanghai Metro projects in China, the Kuala Lumpur Express Raillink or the light rail transit system in Houston.

**Integrated Services**
The performance and cost-effectiveness of your investment must be systematically maintained over many years. To achieve this we offer tailored service and maintenance packages for your rolling stock and infrastructure – including financing and guaranteed fast spare parts logistics.
Siemens TS Major References in China

In many projects, TS China has gained a reputation as being a long-term reliable partner of our Chinese customers. Our customers in China can build on this experience, especially when it comes to sustainably implementing the huge projects in China.

Metro Guangzhou
Since 1994 we have supplied, among other things, the power supply, operations control and passenger information systems. Till 2007, we will also deliver 40 metro trains, the first batch of which was successfully rolled out in mid-Nov. 2005 and later put into official operation in Dec.2005. These are China’s fastest metro trains so far.

Metro Shanghai
We were project partner from the construction of the first line in 1989 up to the Line 9 in 2005, supplying vehicles, operations control, power supply, telecommunications as well as other infrastructure equipment. The first Chinese metro for Shanghai Pearl Line Phase 2 rolled out On December 18, 2004. In Sep. 2005, we received the contract of delivering 72 cars for the expansion project of Line 1 and to adapt 24 existing cars for the same line.

Metro Shenzhen
Shenzhen Metro line 1&4 phase I, for which we provided signaling and control systems, was put into operation officially at the end of 2004.

Metro Nanjing
Siemens signaling technology ensures metro systems punctual and safe operations. After nearly 3 years' construction, Nanjing Metro Line 1’s successful operation starting from Sep 2005 won high appraisal for Siemens.

Metro Beijing
By supplying power supply and signaling and control systems, we are actively involved in the infrastructure construction of Beijing Metro projects, such as Beijing City Rail, Beijing Metro Line 5, and Beijing Metro Line 10 including Olympic Branch Lines.

Harbin-Dalian
In 2001 we successfully completed the largest electrification project in the world with a length of 954 kilometers.

Transrapid Shanghai
The inauguration trip was made – just two years after the contract was signed – on December 31, 2002. We provided the following systems: Drive, operations control and communication technology, power supply and power rails. The Transrapid began commercial operation in early 2004.
Locomotives
In 2004, together with its local partner CSR Zhuzhou Electric Locomotives Company Ltd. (ZELC), TS China was awarded with a large-scale order to deliver 180 double locomotives to Chinese Ministry of Railways.

Train
In Nov. 2005, Siemens received a major contract together with its Chinese partner Tangshan Locomotive & Rolling Stock Works to build 60 high-speed trains with a speed of 300km/h for China.

Beijing-Tianjin Dedicated Passenger Line
In April 2006, together with its local partners, Siemens signed a contract with Chinese Ministry of Railways (MoR) for the supply and the erection of the signalling, communication and power supply systems of the Beijing-Tianjin dedicated passenger line. This line is the pilot project of the MoR for new high speed railway networks in China and therefore is regarded as the key project of the dedicated passenger lines.

Siemens TS Joint ventures in China
Siemens is convinced that it can only work closely with its Chinese partners by having deep roots in China. This is reflected in the fact that TS China has not only offices in Beijing, Shanghai, Guangzhou, Shenzhen and Nanjing, but also many local partnerships and especially three joint ventures in the core areas of our business:

Siemens Signalling Co., Ltd. (SSCX)
in Xi’an (Shaanxi province) – founded in 1995 and responsible for signaling products and systems for both mass transit and main line operations. Today, Siemens Signalling Co., Ltd. is already one of the main suppliers in the projects of main line transportation and mass transit home and abroad.

Siemens Traction Equipment Ltd. (STEZ)
In Zhuzhou (Hunan Province) – founded in 1998 and involved in supplying the key components for electric locomotives.

Saitong Railway Electrification (Nanjing) Co., Ltd (SREN)
In Nanjing (Jiangsu province) – founded in Jan 2005 and is a Joint Venture of Siemens Ltd., China and Daqo Group who serves the Chinese main line and mass transit electrification market with advanced technology and on-time considerate service. The company manufactures and distributes railway electrification products, such as components of Overhead Contract Systems, In-door Single-pole Vacuum Circuit Breakers, Single-pole Air-insulated Switchgears, Disconnectors, Third Rail Systems, and Traction Substations.