

### Infrastructure & Cities Sector Smart Grid Division

Nuremberg (Germany), October 26, 2012

#### **Siemens to modernize traction power supplies for rail rapid transit lines in São Paulo**

**Siemens Infrastructure & Cities is to modernize the traction power supply network of several rail rapid transit lines in São Paulo by 2015. The customer is Brazilian commuter rail operator Companhia Paulista de Trens Metropolitanos (CPTM). The 187-kilometer-long rail rapid transit network connects the central station and the district of Brás, near to the city center, with a number of suburban areas. Siemens' share of the overall contract is roughly USD44 million.**

"Investments in transportation infrastructures increase the quality of life, especially in urban centers. In major cities such as São Paulo, there are more and more bottlenecks in the flow of traffic within the city. With our technology we're not only helping to expand the public transport network of this megacity, but we're also making a contribution to economic growth and climate protection," said Mirko Düsel, CEO of the Rail Electrification Business Unit within Siemens' Smart Grid Division. With over 20 million inhabitants, Greater São Paulo is the most heavily populated region in the southern hemisphere. The number of automobiles in the Brazilian metropolis saw more than a seven-fold increase to 7 million between 1970 and 2011, and this is why the public rail network in Greater São Paulo is to be expanded to 19 lines from the current ten by 2020.

As part of this expansion, Siemens will be modernizing the traction power supply for commuter lines 7, 10, 11 and 12 during ongoing operation by 2015. These four lines connect the central station "Estação da Luz" and Brás near the city center with the suburban areas of Jundiaí, Rio Grande da Serra, Calmon Viana and Estudantes. The whole network covers a total of 60 stations. The project will see Siemens modernize eight existing traction substations and supply three new ones, while 20 substations will be partially modernized and three of the four lines will have their medium-voltage cable network refurbished. In addition, a high-voltage feeder station, transformers, medium-voltage switchgear, traction substation rectifiers as well as a DC voltage distributor and auxiliaries are included in the scope of the order. Siemens will provide Sitras DSG switchgear and Sitras SCD short-circuiting devices, as well as Sitras PRO protection devices that comply with

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communication standard IEC 61850. Siemens performed modernization and expansion work on the traction power supplies a few years ago for a number of São Paulo's rail rapid transit lines and provided the depot on line 4.

Energy-efficient, eco-friendly solutions for rail electrification are part of Siemens' environmental portfolio. In fiscal 2011, revenue from the portfolio totaled nearly EUR30 billion, making Siemens one of the world's largest suppliers of eco-friendly technologies. In the same period, the company's products and solutions enabled customers to reduce their carbon dioxide (CO<sub>2</sub>) emissions by nearly 320 million tons, an amount equal to the total annual CO<sub>2</sub> emissions of Berlin, Delhi, Hong Kong, Istanbul, London, New York, Singapore and Tokyo.



**Siemens Press Photo**

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**Caption:**

Siemens Infrastructure & Cities is to modernize the traction power supply network of several rail rapid transit lines in São Paulo by 2015.

The **Siemens Infrastructure & Cities Sector** (Munich, Germany), with approximately 87,000 employees, offers sustainable technologies for metropolitan areas and their infrastructures. Its offerings include integrated mobility solutions, building and security technology, power distribution, smart grid applications, and low- and medium-voltage products. The Sector comprises the Divisions Rail Systems, Mobility and Logistics, Low and Medium Voltage, Smart Grid, and Building Technologies. For more information, visit <http://www.siemens.com/infrastructure-cities>

The **Siemens Smart Grid Division** (Nuremberg, Germany) supplies power providers and network operators, industrial enterprises, infrastructure elements and cities with products and solutions for intelligent and flexible network infrastructures. To meet growing energy needs, the networks of today and tomorrow must integrate more and more renewable energy sources and ensure bi-directional energy and communication flows. Smart Grids help make it possible to generate and use power efficiently and on demand. For more information, visit <http://www.siemens.com/smartgrid>