

## Siemens supporting Brasília's stadium in bid to become world's greenest sports arena

- **Siemens supplying security, safety and building automation technology**
- **Mané Garrincha world's first stadium to apply for LEED Platinum sustainability certification**
- **Siemens technology helps reduce CO<sub>2</sub> emissions**

Siemens is supplying technology for Brasília's Mané Garrincha National Stadium, the most modern and sustainable sports arena to be built in Latin America. The company has been commissioned to provide equipment, products and high-tech security, safety and building automation systems for the stadium, which will host the Confederations Cup opener in 2013 and seven World Cup games in 2014. Featuring the most sophisticated technological solutions ever used in Brazil, the stadium will be one of the most advanced structures of its type in the world.

Green technologies from Siemens can reduce waste at the stadium by controlling water and energy consumption. By helping make Mané Garrincha even more sustainable, the systems will also support the stadium in its bid to become the world's first sports arena to receive LEED Platinum sustainability certification, a status achieved only by buildings meeting the highest environmental standards. The Siemens building automation software installed in the stadium meets the requirements of LEED certification, since it controls the consumption, metering and utilization of water and power, the use of air conditioning and the integration of fire detection, alarm and security systems.

"Siemens' technologies and solutions are now installed in one of the world's most modern stadiums. Participating in the construction of Mané Garrincha National Stadium in Brasília is a source of great pride for us since the project will be an

important legacy to Brazil's federal capital," said Guilherme Mendonça, head of the Infrastructure & Cities (IC) Sector in Brazil.

The agreement concluded with the Brasília 2014 Consortium, which comprises the construction companies Andrade Gutierrez and Via Engenharia, provides for the supply of more than 400 CCTV cameras, 150 turnstiles for controlling access at some 6,000 control points and approximately 6,000 fire detection points.

In addition to building automation technologies, the project includes IT and sound systems provided together with partners for the stadium, which, with a seating capacity of 70,000, is Brazil's second-largest sports arena. These technologies and solutions are already a feature of Europe's most advanced and profitable sports facilities, such as the Allianz Arena in Munich, Germany.

### **Leading-edge technology guarantees greater security**

Utilizing state-of-the-art camera technology, the CCTV system supplied by Siemens can identify spectators throughout the stadium's stands. The system, which is managed by high processing capacity software, provides for hierarchical access via password, so that the stadium's security organizations (police, fire brigade and private security) can identify possible problems and take appropriate action.

By integrating the database with the most diverse ticket sale systems, the access control system will enable the facility's operators to promote a wide variety of events. The turnstiles at the arena's entry points will be able to read all currently available identification technologies such as 1D and 2D barcodes, mifare and smartcards. The system's data will be fully encrypted, making operations even more secure and preventing ticket forgery. The system will also protect the technical areas at the stadium, and operators will not need to carry keys to open the numerous stadium gates.

All the technologies supplied will be integrated into the command and control center. This will make it possible to access the stadium's systems and operate them by means of a single screen. Siemens' solutions have already been installed at more

than 150 sports facilities worldwide – including the Allianz Arena in Germany, the Gdansk Stadium in Poland and eight arenas in South Africa.

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Further information on Siemens technologies for the upcoming major events in

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