

Fact sheet – Moses Mabhida Station and Stadium

The Moses Mabhida Station and the Moses Mabhida Stadium built for the FIFA World Cup in 2010 are equipped with highly efficient technology, delivered by both Siemens and Osram, a wholly-owned subsidiary of Siemens AG.



Siemens technology at Moses Mabhida Station entails several improvements for passengers

- The R140 million Station enables soccer fans simply to step off the train and take a short walk to their seats in the Moses Mabhida Stadium rising up behind it.
- It was completed and handed over in August 2010 but was running during the World Cup.
- Siemens supplied help points and Emergency Call devices (ECD). The ECD enables VoIP connections to the help points. These calls can be routed to either train operators, for additional information, or emergency assistance.
- In addition to the above function the ECD routes live information to the Electronic Display Boards.
- The live train data is fed to the Electronic Display Boards and the Public address system via the RailCom system which was supplied by Siemens.
- RailCom Manager is a flexible, open system that makes real-time information continuously available to passengers. It does this by combining actual train movement data with train timetables, it provides accurate real time arrival and departure information, even in areas of poor train movement reporting.
- Further more, RailCom monitors the condition of the assets (i.e. Public Address system, Display Boards, ECD's and Help points), operators receive early warning of potential faults, meaning that preventative maintenance or re-commissioning can be planned in advance.
- Commuters can now plan their trips more accurately, improving their rail travel experience.
- Siemens aims to provide a form of transportation that is effective, efficient, reliable and safe for commuters.



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The highly modern Moses Mabhida Stadium has become a defining landmark in Durban

- With its "arch of triumph", the Moses Mabhida Stadium in Durban is a defining landmark similar to Sydney's Opera House or The London Eye.
- The stadium can accommodate roughly 70,000 spectators. It is therefore the second largest stadium that was built for the FIFA World Cup 2010 in South Africa.
- The multi-disciplinary aspect of the stadium's design allows the stadium to host a wide range of sporting and cultural events.
- The different levels of the stadium are supported by 1 750 columns and 216 raking beams that provide the main support to the seating panels.
- One highlight of the stadium is the 30-story high arch stretching for 350 meters and weighing 2,600 tons. It is hollow on the inside allowing an elaborate lighting system to be installed and maintained.
- The arch also represents the once divided nation coming together, inspired by the South African Flag.

With the illumination of "The Arch" Osram realized the biggest LED-project in South Africa

- The arch is illuminated by 822 "LED Beam" spotlights which Osram developed specifically to meet the requirements of the stadium in cooperation with the South African luminaire manufacturer BEKA.
- They are almost two meters long, extremely versatile and weatherproof. The product also stands out for low maintenance and low running costs.
- LEDs use approximately 20 percent less energy than alternative solutions for similar applications while emitting the same amount of light.
- Thanks to their high quality, the lamps are expected to have a lifespan of around 50,000 hours.
- With the LEDs special light effects can be created, e.g. white light running along the arch during the matches.