

# Champion-class power protection



ABB provides major sport event with hundreds of UPS devices and full support.

Sporting expertise is, of course, front and center of all sports events. But behind the scenes of any modern event lies an astonishing array of technology. And that technology has to work 100 percent of the time. Glitches are not allowable where, in some cases, gold medals may be decided by fractions of a second. In other words, the uninterruptible power supply (UPS) systems supporting the technology must not fail.

This quest for 100 percent uptime and previous good experiences with ABB are two reasons why the organizers of a renowned international sport event turned to ABB for power protection equipment.

The project was anything but simple. For a start, ABB had to deliver highly reliable, verified solutions – from design to site commissioning – to multiple, geographically spread venues. These sites included not only competition locations but also infrastructure sites (eg, a broadcast center for global media). This undertaking involved a colossal amount of equipment: over 100 large three-phase UPSs (SG Series IEC 400 V up to 500 kVA), over 2,500 single-phase UPSs such as the VH Series IEC and the PowerValue 11 RT G2 (IEC and UL) and 90 ELDS eHouses.

Over 60 senior UPS engineers, 10 project managers and 10 project coordinators from the Global Power Protection Service organization were required to attend the live events and provide onsite assistance in case of incidents during competitions. Further, a Mission Critical Digital Platform, with disaster recovery, was supplied to prevent incidents and drive all service operations at the venues.

Ever since winning the order, the ABB team displayed a strong cross-country collaboration among the Power Protection organization. More than 10 countries (LSOs) contributed to sharing service resources and enabled ABB to assemble a very strong team. Strong project management was vital in sharing resources effectively among ABB divisions and a solid relationship with the Quartino UPS factory in Switzerland was critical in achieving the huge equipment quantity and tight delivery schedule.

Training and educational programs were given onsite and remotely to prepare the organization to perform all required duties. Training was also provided to the

local partner so they could cover a wide service area. Thanks to the project, ABB built a strong local UPS service team that will remain a legacy for future business expansion. Great emphasis was placed on safety, which resulted in zero incidents recorded.

The equipment also had to endure the tough conditions: Several installations were running at maximum capacity during competitions and space was tight so some containerized solutions had to be split in two to provide location flexibility and accommodate the high temperatures and humidity. Redundant cooling systems were a must.

The equipment worked perfectly and enabled a very satisfied organizer was able to deliver an impeccable event.

