

Press Backgrounder

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Philips Lighting Solutions for Olympic stadium Kiev (NSC Olimpiyskiy)

Philips provided the Olympic stadium in Kiev, the largest stadium in Ukraine, able to host 60,000 spectators, with tailor-made lighting systems. The stadium was reconstructed several times and revamped completely for this summer's major football tournament, with renovations beginning in 2008. In 2010, Philips submitted its proposal and was chosen as a subcontractor for lighting solutions.

Within the project, Philips carried out the following scope of work at the stadium:

- Designed the lighting concept combining functional and decorative solutions to create the “ring of fire” effect on the stadium's roof edge
- Performed lighting calculations and reconciled power and control systems
- Supervised installation, including the targeting, commissioning works, lighting design measurements in cooperation with partner organizations.



Reconstruction purchaser – State Enterprise NSC Olimpiyskiy
General Planner – GMP Company, Germany
General Contractors – Joint-stock holding company “Kyivmiskbud”, “AK Engineering” LLC, “Master-Profi Ukraine Plant” LLC
Capacity – 70, 050
Seats for disabled – 150
Parking slots – 248
Put into operation – October 8, 2011

With no solid structure at NSC Olimpiyskiy, the installation of a fiberglass membrane roof and hanging of hundreds of heavy floodlights in the ceiling was a real challenge, overcome by Philips. Philips' Ukrainian office involved its European colleagues and partners to help with the installation and share their valuable experience in providing effective lighting solutions.

As a multipurpose sports arena for both football and athletics, the NSC Olimpiyskiy has bespoke lighting to cater for different needs. With eight racetracks, Long Jump sectors, Javelin and Hammer Throw areas, Shot Put grounds, as well as areas for Pole-Vaulting and High Jump, Philips provided the stadium with two lighting designs: one for the football field, and one for track and field sports. As a result, Philips' floodlight equipment now illuminates the football field, racetracks and all other areas in accordance with FIFA¹, UEFA² and GAISF/IAAF³ standards for broadcasting football matches, and athletic competitions on television.

The lighting system installed has seven switch-on and illumination regimes, with a maximum of 2400 lux. The system includes 608 Philips ArenaVision sport floodlights in total. Philips is also responsible for the illumination of technical and public areas.

¹ Federation International de Football Association

² Union of European Football Associations

³ General Association of International Sports Federations / The International Amateur Athletics Federation

From a medical health perspective, Philips presented 4 HeartStart FRx mobile defibrillators to NSC Olimpiyskiy in November, 2011. These devices are to treat life-threatening cardiac arrhythmias and help those suffering a cardiac arrest – sometimes brought on in crowded areas. The machines are given to police officers, stewards or fans who are able to supply first aid.

Serhiy Churikov of NSC Olimpiyskiy medical service, explains: “The need for mobile defibrillators in crowded places has been very high for a long time now and we imagine it will be the same for the other venues hosting this summer’s football tournament. Because of this, we are holding first-aid training for the stadium staff, including training on how to use the defibrillators in emergency situations.”

For further information, please contact:

Jeannet Harpe
Philips Lighting Corporate Communications
Tel: +31 653722221
E-mail: jeannet.harpe@philips.com

Santa van der Laarse
Philips Corporate Communications
Tel: + 31 653400056
E-mail: santa.van.der.laarse@philips.com

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