



CUSTOMER: YAOUNDE STADIUM

POWER PLANT: 3 x 800 kVA

LOCATION: CAMEROON - AFRICA

KOHLER-SDMO: ENSURE THE SMOOTH RUNNING OF THE 2016 AFRICA CUP OF NATIONS WOMEN'S FOOTBALL TOURNAMENT

SPORTS INFRASTRUCTURE

Under the auspices of FIFA, the Confederation of African Football (CAF) nominated Cameroon to hold the 12th staging of the Women's Africa Cup of Nations in 2016. Reserved for the teams of nations recognised by the Confederation of African Football, the competition has been held since 1991. This year preparations were supported by the French manufacturer KOHLER-SDMO, which supplied the machines to ensure that the tournament goes off without a hitch. Yaoundé and Limbé are the two host cities for the final phase. Ahmadou Ahidjo Stadium will host 8 teams from the different qualifying nations between 19 November and 3 December 2016: Egypt, Equatorial Guinea, Ghana, Kenya, Nigeria, South Africa and Zimbabwe. Nigeria will be defending its title.



EXPRESSION OF NEED: MAJOR WORKS TO RENOVATE THE ENTIRE INFRASTRUCTURE AT YAOUNDÉ STADIUM

Built in 1972, the multi-sports stadium has been given a fresh look in 2016 for the Africa Cup of Nations.



The Cameroon ministry of sports and physical education implemented a major renovation project for Ahmadou Ahidjo Stadium in Yaoundé, which will open its doors in November to host the 2016 Women's Africa Cup of Nations. The stadium has a capacity of 40,000. It will also host the Men's Africa Cup of Nations in 2019.



PROJECT IMPLEMENTATION: SUPPLY OF THREE GENERATING SETS OF 800 kVA TO PROVIDE THE STADIUM'S POWER DURING THE TOURNAMENT.

Three generating sets with backup energy of 800 kVA have been installed outside the stadium in containers in the vicinity of the main electricity control rooms.

These generating sets will be able to provide all the stadium's electricity demands during the matches, notably to power the floodlights during the competition to mitigate the unreliability of the electricity grid in Africa.

In the event of a failure occurring as the result of an incident, the inhibition unit will prevent the gensets malfunctioning by enabling them to start up in fault mode.

The main challenge for this project was the very tight completion deadline to provide a functional installation by 19 November, the date the tournament commences. The equipment meets the NF E 37-312 safety standard. Particular attention was also paid to reducing the noise pollution emitted when the generating sets are operational.

Our local distributor, ARNO, managed the contract with the support of SDMO commercial and technical personnel. In the presence of Mr Paul Bell, director of sports infrastructure and equipment within MINSEP, the Cameroon sports ministry, the equipment was handed over on 28 June 2016. Mr Bell took part in the testing of the future installation on the test benches at the KOHLER-SDMO production site located in Brest, France, before supervising on-site installation in August.



KOHLER-SDMO SOLUTION: OFFERING RESPONSIVENESS AND SUITABLE EQUIPMENT IN TIGHT DEADLINES

SDMO was able to demonstrate its responsiveness in the areas of equipment definition and support, technical design and generating set installation.

In accordance with the NF E 37-312 standard, a remotely installed inhibition unit is connected to each backup generating set.

The installations have been designed to emit an absolute minimum of noise pollution when the generating sets are running. The gensets have been installed in three 20-foot ISO20 Super Silent containers fitted with bafflers. The containers reduce noise emissions down to 80 dB(A) at one metre and ¾ load utilisation.



Pic. 1. Three generating set individually installed in three Super Silent Containers.

With this installation closely meeting the constraints and demands of the client within a totally renovated infrastructure, it only remains for us to wish Cameroon a magnificent Africa Cup of Nations with complete peace of mind.

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