

CUSTOMER: INTERXION MRS1

POWER STATION: 2 x 2500 kVA

LOCATION: MARSEILLE, FRANCE



KOHLER-SDMO: ENSURING THE CROSS-BORDER LINKS BETWEEN THE VARIOUS EUROPEAN INTERNET NETWORKS

DATA CENTRE

The MRS1 data centre is the eighth data centre in France for Interxion, the benchmark European player in the data centre colocation market. Interxion manages 42 data centres in eleven countries, providing its 1,500 clients with applications and critical content alongside excellent response times, all within a completely secure environment. Interxion notably hosts over 600 telecoms operators and internet service providers, with 21 European internet interconnection points. In 2014 the Interxion group achieved turnover of 340.6 million euros.



EXPRESSION OF NEED: INSTALLATION IN AN ALREADY OPERATIONAL DATA CENTRE

Interxion opened its site in Marseille, France, on 14 April 2015. Significant investment was earmarked for renovating and modernising the installations. The data centre covers some 6,200m², making the MRS1 site the largest of Interxion's eight data centres in France. SDMO has already demonstrated itself to be a reliable partner in other projects with Interxion: installation of 3x 3100 kVA + 3x 3100 kVA at the Paris St Denis site.



PROJECT IMPLEMENTATION: INTEGRATION OF THE GENSETS WITHIN AN URBAN ENVIRONMENT

The pre-project site was already equipped with 3 SDMO generating sets (3 x 2200 kVA). On completion, the number of generating sets at the site will be seven in order to meet the additional capacity requirements. The two new generating sets will be used at DCC power of 2330 kVA at 4/4 continuous load.

This project had two main areas of focus:

- Special precautions were taken to protect the building's structure and historic architecture as well as to optimise the available (and non-extendable) space for the seamless incorporation of the new generating sets.
- The location of the data centre in Marseille city centre requires compliance with pollution and noise emission limits, both day and night.



KOHLER-SDMO SOLUTION: REDESIGN EXISTING INFRASTRUCTURE BY ADAPTING TO THE SPECIFIC PROJECT DEMANDS

Thanks to its engineering expertise, SDMO has been able to design and integrate the equipment within an existing and demanding structure. The space was reconfigured (demolition and reconstruction of interior walls, construction of firewalls). It was divided into 3 distinct areas to prevent fire spreading in the event of an incident.

In order to meet the constraint of limited space, the seven generating sets also share a cooling tower located on the roof. Similarly, air inlets pass through the building's inner yard, with the added advantage of reducing noise pollution emitted by the generating sets.

Soundproofing works have also been carried out at the premises. Baffles have been fitted to the gensets' air inlets and outlets. The generating sets meet the TA-Luft standard. The generating sets' emissions are below 2000 mg/Nm³ of nitrogen oxide (NO_x).

The MRS1 data centre has Tier-III certification from the Uptime Institute. Work is underway to enable Interxion to obtain Tier-IV certification.



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