

**CUSTOMER:** DAR AL-SABAH GENERAL CONTRACTING AND REAL ESTATE INVESTMENT**POWER PLANT:** 4 x 3300 KVA**LOCATION:** BAGHDAD - IRAQ

KOHLER-SDMO : A CUTTING-EDGE INSTALLATION WITHIN THE LARGEST SHOPPING MALL IN IRAQ

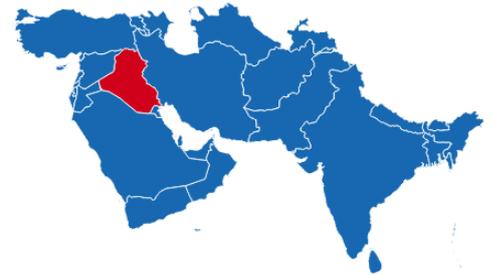
CONSTRUCTION

DAR AL-SABAH GENERAL CONTRACTING & REAL ESTATE INVESTMENT is a key player in Iraq. It provides a diverse range of activities, including the distribution of goods (it is the largest private distributor in Iraq), property development, and industrial solutions (cement, mineral water bottling), etc. This company is behind the construction of Iraq's largest commercial complex, located in the country's capital: The Baghdad Mall.

Spanning a surface area of 80,000 m², it houses:

- A shopping center of approximately 28,300 m², comprising a supermarket and 150 stores
- A five-star 25,160 m² hotel, with 243 rooms set over 33 stories,
- A medical complex, comprising 30 doctor's clinics, pharmacies, laboratory diagnostic facilities, radiology clinics and a hospital, all housed within a total surface area of almost 10,000 m²
- A 10-story parking lot which can house up to 675 vehicles.

The mains power grid in Iraq is not stable: power cuts are very frequent and can last between 6 and 10 hours a day. Ensuring installations have backup in the form of a stand-by diesel power plant is therefore crucial.



STATEMENT OF REQUIREMENTS: PROPOSING A TURNKEY SOLUTION, FROM RECOMMENDATION TO AFTER-SALES TECHNICAL SUPPORT

Within this framework, a call for tenders was issued, which was won by KOHLER-SDMO in conjunction with its distributor EREL, thanks to three key strengths in its tender:

- EREL and KOHLER-SDMO had been supporting the customer since the start of the civil engineering work. The power plant and the medium voltage substations were designed by KOHLER-SDMO technicians and submitted to the customer at the design development study stage.
- The fact that an integrated solution (generating sets, transformers and medium voltage cells) was put forward was of particular value.
- In addition to the quality of the products supplied by KOHLER-SDMO, one of the key factors for the customer during the final decision was installation and maintenance capacity.

Thanks to its distributor EREL, which has a presence within Iraq, KOHLER-SDMO offered a turnkey solution, providing both initial starting of the installation and maintenance.



PROJECT IMPLEMENTATION: INSTALLATION OF FOUR 3300 KVA GENERATING SETS COUPLED TO FOUR TRANSFORMERS

The scope of services provided by KOHLER-SDMO and its distributor EREL comprises the supply, installation and starting of all equipment, and the laying and connection of the low voltage cables between the step-down transformers and the project's LVCCP*.

Four 3300 kVA generating sets equipped with APM802 control/command systems (including one master), coupled to four 400V-33KV step-up transformers were installed by KOHLER-SDMO in conjunction with EREL.

This system supplies a panel of medium voltage cells.

Advantages which make a difference: value for money

- ▶ the turnkey solution put forward
- ▶ the high quality reputation of KOHLER-SDMO
- ▶ local technical support thanks to our agent EREL



*Low voltage central control panel



KOHLER-SDMO SOLUTION: ENGINEERING CAPACITIES AND A STRONG PARTNERSHIP WITH ITS AGENT EREL

It is thanks to its engineering capacities and its strong partnership with its agent EREL that KOHLER-SDMO was able to meet the constraints of the site:

- Limited space for installation of the power plant
- Ambient temperature of 55°C
- Dusty environment

The proposed solution was perfectly adapted to the installation and the site. The coolant system was sized to optimize the capacity of the generating sets and to adapt them to the severe ambient temperature found in Iraq.



The customer was clearly fully satisfied with this project since several more projects are currently undergoing finalization, once again in collaboration with EREL.

KOHLER
SDMO

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