APR ENERGY®

Powering your progress®

Peak Shaving | Case Study

Oman

At a glance

24MW
Diesel power modules

in less than 20 days

- FAST-TRACK INSTALLATION IN LESS THAN 20 DAYS
- 24MW OF PEAK-DEMAND POWER
- DECOMMISSIONING IN 8 DAYS

Challenges

- MODIFICATION OF EXISTING EQUIPMENT USED FOR THE ELECTRICAL INTERCONNECTION POINTS
- SPECIALIZED FUEL AND ELECTRICITY METERING EQUIPMENT FOR COMPLETE OPERATIONAL TRANSPARENCY
- MAXIMUM GENERATION AVAILABILITY REQUIRED FOR DAYTIME, EVENING PEAKS

Background

Located on the southeast coast of the Arab Peninsula, the Sultanate of Oman has nominal rainfall and temperatures exceeding 50°C (122°F) during the summer. The hottest months are typically from May to September, when heavy demand on the country's power grid can cause intermittent power outages, leading to disruptive economic and social conditions. The Oman Power and Water Procurement Company contracted for seasonal back-up power solutions to support the national grid during the peak demand period.

Solution

APR Energy designed, installed and commissioned a fast-track, turnkey power plant to provide 24MW of peak-demand backup power via MEDCO, one of the Sultanate's electricity distribution companies. Using our proprietary modular system of connecting generators and transformers, we were able to deploy and commission the site in less than 20 days from arrival of the equipment to the site. Local specialized contractors were used to fabricate the fuel supply system and build the interconnection infrastructure.

Outcome

As a standby supplement to the existing power grid, our turnkey diesel power solution provided three months of reliable backup capacity during the peak demand season. Using our proprietary modular system, we were able to fully dismantle and vacate the site in only eight days upon completion of the contract.

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