Successful Distributed Energy Solution In China

Industrial & Commercial

SUCCESS STORY

At A Glance

Installation:
2 X OP16-3B

Output:
Electricity: 3700 kW
Steam: 12 tons/h

Location: Linuo Park, Jinan, Shandong Province, China

Customer: Shandong Energas New Energy Co. Ltd

The Challenge

Linuo is a large technology and innovation-oriented business group with headquarter in Shandong province, China.

For its new Technology Park in Jinan, Linuo required a solution that would provide steam, heating and electrical power to all the facilities in the park. With constant efforts to reduce emissions, the objective was to displace traditional coal-fired power generation using a sustainable and environmental-friendly solution. For OPRA, this represents the first commercial project in China.

The Solution

OPRA delivered two gensets powered by OP16-3B gas turbines, equipped with Dry Low Emission combustion systems.

Each turbine produces 1850KWe of electrical power and 6 tons of steam per hour, with emissions below the most stringent international regulations.
The gensets are connected to the electricity grid and to the park district heating. The optimized integration into the park's power management system leads to a total energy efficiency over 80%, with significant savings in energy costs and emissions.

With an efficient collaboration with sister company Energas, OPRA was able to complete the installation in record time, and turn this first project in China into a successful installation.

The Results

By choosing an OPRA solution, Linuo Group avoids the combustion of 15.000 tons of coal per year, corresponding to a reduction in annual emissions of 10.600 tons of CO2, 160 tons of Nitrogen oxides and 320 tons of highly hazardous sulfur dioxide.

Thanks to OPRA's expertise and the advance technology of the OP16-3B, the Jinan Technology Park now benefits from a decentralized power generation solution which protects it from power outages and from the volatility of the electricity prices.

15.000 tons
Coal Use Reduction Per Year

>80%
Total Efficiency

10.600 tons
CO2 Emission Reduction Per Year

320 tons
Sulfur Dioxide Reduction Per Year

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OPRA
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OPRA's Mission: To Drive The World's Energy Transition