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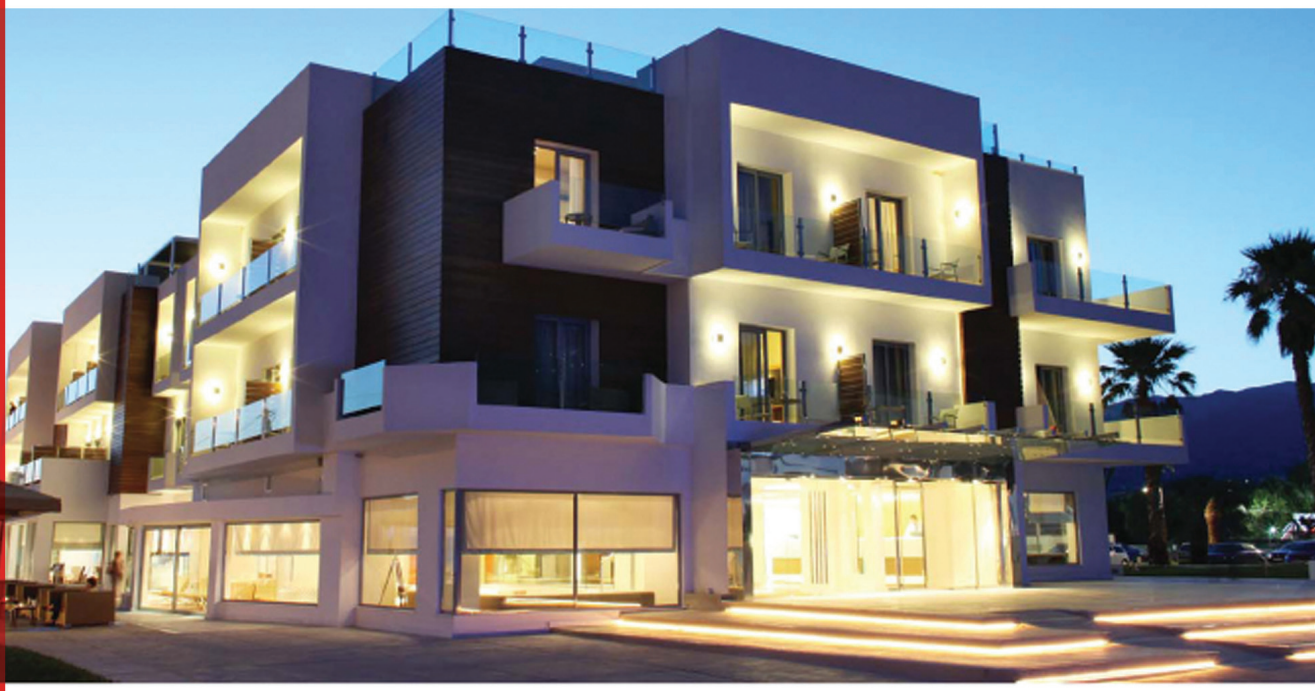
Power Generation



Standby Power

Case History

Elite City Resort Hotel

Cummins Power Generation provides the back-up to keep Greek resort guests in luxury

Where:
Kalamata, Greece

What:
Two 500 kVA C500 D5 generator sets working in parallel, with standard QSX15 G8 engines. Management is provided by a PowerCommand® PCC3201 control system. Both units are housed internally in a specially adapted room. Special provision has been made for exhaust gas removal, and for indoor cooling to cope with the region's high ambient temperatures

Purpose:
Provision of reliable standby power for a luxury beachside hotel in the city resort of Kalamata, meeting different seasonal requirements. All hotel services provided for guests are maintained during frequent and unpredictable grid power outages, overvoltages and undervoltages.

KALAMATA, GREECE - Guests at the Elite City Resort Hotel in Kalamata on Greece's Messenian coast are guaranteed uninterrupted relaxation now that a newly installed parallel pair of generators discretely looks after their comfort. Cummins Power Generation's distributor Ergotrak has installed a solution based on two 500 kVA units which provide standby power all year round.

The Elite City Resort is a luxury class hotel with many attractions. It has around 157 single and double rooms, plus public bars, restaurant, swimming pool, volleyball courts - and even its own small church. The beach is just outside the door. Guests expect the best quality service, and the hotel owners must be certain they can provide it at all times without interruption.

C500 D5 generator set

The Cummins power solution comprises two enclosed sets housed in a specially adapted room.

Kalamata is the second largest city in the Peloponnese and is most famous for its dark olives, distinctive dancing and its honey covered sweets. However, this region is also known for forest fires that can devastate infrastructure, adding to the everyday uncertainties of the public electricity supply. Meanwhile the tourist numbers in summer contribute to power outages when the grid is unable to cope with the load.

Ergotrak has supplied backup power solutions to Greek hotels many times before, but the requirement in this case was different, as Ergotrak's Sales Engineer Adonis Costakis explains. "Usually a hotel uses only one genset, but in this case we've installed two in parallel. From April to the end of October is their busy period, but in winter the load is not so great. If they used a single 1,000 kVA genset, the load would be less than 35%, which is not good for the engine. But with two 500 kVA gensets installed in parallel, they can run efficiently on either one of them."

It is an effective all-year-round solution. In winter, while one of the generator sets is available to provide backup power for the hotel, the other can undergo maintenance. The solution proposed by a competitor could not deliver parallel operation without specially adapting some of their equipment first. Cummins was able to provide a more efficient solution in a shorter timescale.

Greek distributor Ergotrak has installed parallel Cummins 500 kVA units ensuring standby power all year round at a luxury hotel.

The generator sets are situated in their own room at the back of the complex. An Automatic Transfer Switch (ATS) is located in an adjoining room. Installation of the equipment went smoothly, with special attention to the venting of exhaust gases and the requirement for air circulation for cooling. Installing them indoors means they are out of sight, which is important. Guests at a luxury hotel like the Elite City Resort don't expect to see the machinery that keeps their services running.

"The customer is very happy with the parallel solution we have installed," Costakis reports. The installation is performing to expectations, and Ergotrak is providing servicing on an ongoing basis.

For more information about integrated standby power systems, contact your local Cummins Power Generation distributor or visit www.cumminspower.com

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