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Standby Power

Case History

The New Islamabad International Airport

Where:

Fateh Jang, Pakistan

What:

Four C400 D5 generator sets, rated at 360 kVA prime, 400 kVA standby.

Purpose:

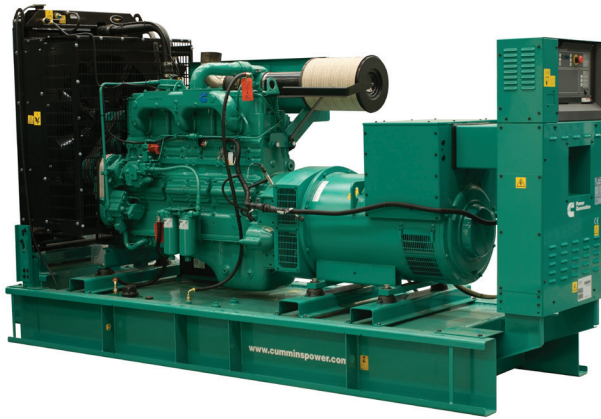
To meet power generation requirements at Pakistan's newest and largest airport.

Cummins Power Generation supplies Pakistan's super-airport

A massive new airport project underway in Pakistan will rely on Cummins Power Generation equipment, thanks to a partnership between Siemens and Cummins Pakistan distributor Orient Energy Systems (Pvt.) Limited (OES). The new airport is planned to take all flights currently operating out of Islamabad International Airport, and then grow to become the biggest in the country.

The New Islamabad International Airport is a high profile project initiated in January 2005. The project makes use of 13 km² of land originally acquired by the Pakistan Civil Aviation Authority in the 1980s located 20 km from central Islamabad at Pind Ranjah near Fateh Jang. An additional 400 acres were added to allow the airport to run two, 4,000 ft long concurrent runways, and to land the widest modern jets.

The cost of the project is estimated at US\$400 million, with a schedule to become operational 2012-2013. Once completed, the airport will serve Islamabad Capital Territory and the city of Rawalpindi, 23 km away. It is projected to outgrow Karachi airport and become Pakistan's largest.



C400 D5 generator sets are providing power to the airport project



Witness testing at Cummins Power Generation UK site helped validate the solution

There will be car parking for 2,000 vehicles, a covered plaza area for 200 cars, a 15-gate terminal, 42 immigration counters, nine baggage claim carousels and 12 X-ray machines. The 180,000 m² modular terminal building will be able to handle nine million passengers a year, offering them a hotel, convention centre, duty-free shops, airside mall, business centre, food court, leisure facilities and banks.

The New Islamabad International Airport will cater to VIPs as well as the general public with lounges having facilities that include snack bars, satellite TV, public telephones and internet service, including wireless access. The airport has a wide variety of duty-free shops, restaurants and souvenir arts and craft shops. Numerous television monitors and mobile connecting points in the terminal will allow passengers to check flight times and recharge their phones. There will be a string of financial exchange counters and commercial banks with ATM facilities linked to global payment processing networks.

There will also be a cargo complex capable of handling 100,000 tonnes a year, four rapid-exit taxiways, apron parking sufficient for the contact stands, underground cable network, parking for ground handling vehicles, secure cargo areas and major airport road infrastructure.

OES worked closely with Siemens for two years and won the business on the basis of its own background and technical expertise as well as the

Four Cummins Power generator sets supplied to Siemens through Orient Energy Systems (Pvt.) Limited will help keep Pakistan's huge new airport running.

cost effectiveness of Cummins Power Generation products. OES was able to meet Siemens' exacting technical specification and stringent service level requirements. The generator sets, which are housed in a substation, are all C400 D5 models, rated at 360 kVA prime, 400 kVA standby.

A crucial stage in the process was a presentation at Cummins Power Generation Factory in Kent, UK, involving Cummins Power Generation, OES, Siemens and other participants in the project. Three of the four generator sets were physically inspected and witness testing was performed on a single generator set. The testing covered safety aspects, shutdowns and alarms examined under different loads.

OES anticipates that the business partnership with Siemens will be beneficial in exploring new business avenues.

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



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