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# Prime Power

## Case History

FAP - Fauji Akbar Portia Marine Terminal

### Where:

Port Qasim, Sindh Province, Pakistan

### What:

Two generator sets operating in parallel - a C1400 D5 and a C900 D5 powered by KTA50 G3 and QSK23 G3 engines - providing 2075 kVA of power.

### Purpose:

Reliable prime power for an extensive and automated grain and fertilizer port facility operating to international standards, including storage, loading and unloading. Environmental noise and fuel efficiency of the Cummins generator sets and the 24x7 backup support provided by Orient Energy Systems (OES) the local distributors of Cummins are key considerations for selection of Cummins Power Generation.

## Pakistan automated port facility feels the benefit of Cummins Power Generation solution

PORT QASIM, PAKISTAN - Cummins Power Generation has won the contract to supply the prime power to a massive new port designed to take the country's economy up to a higher level. The Cummins Power Generation solution is crucial to Pakistan's new automated dry bulk cargo facility which will transform the way the country exports its rice, wheat and fertilizers, the bulk products of an agricultural sector that accounts for nearly a quarter of the national economy.

Known locally as FAP, the Fauji Akbar Portia Marine Terminal occupies over 22 hectares at Port Qasim, 35km from Karachi. The new port is pivotal in the development of the country's economy, providing berths for ships up to and including the Panamax class - large, but still able to pass through the Panama canal and avoid expensive overland routes. Cargo loading and unloading will be automatic, considerably reducing discharge time and providing secure storage, and replacing the use of thousands of jute bags.



To perform this nationally vital role, FAP has to self-generate power, and needs generation equipment that is reliable, cost-effective, and able to work for a minimum of 12 hours a day. FAP considered Caterpillar, ASKA and FG Wilson, before choosing a solution from Cummins Power Generation distributor Orient Energy Systems (Pvt.) Ltd. (OES) for supply, installation, testing & commissioning of Diesel Generator Sets on a turnkey basis.

Cummins Power Generation won because of its reliability, low fuel consumption and low noise emissions. OES has supplied two generator sets for parallel operation, to be run by FAP themselves. The C1400 D5 and C900 D5 units are powered by KTA50 G3 and QSK23 G3 engines and use PCCP3100 & PCC3201 control cards respectively with remote monitoring, providing a combined total power of 2075 kVA.

This power will support an operation capable of loading and unloading around 4.1 million tons of dry bulk cargo a year. At any time, FAP can handle 72,000 tons of grains with an unloading rate from ship to storage of 1000 tons an hour. Vessels up to 80,000 tons can dock and unload at a 300m long jetty. The port is designed to perform all these activities to international standards, with reduced wastage and radically lower handling costs - eliminating the use of jute bags alone saves millions of rupees.

*Pakistan's new automated state-of-the-art grain and fertilizer port facility chose Cummins generator sets for their efficiency and reliability.*

The facility has now been inaugurated by Prime Minister of Pakistan, Syed Yousuf Raza Gilani, after two years of development by principal architect China Harbour Engineering Company (CHEC), Chief Industries of the UK, and Belgium's Vigan Engineering SA. When fully operational, its customers will include the Pakistan government as well as multinational companies in the grain processing and distribution sector.

Close cooperation between the customer and OES helped the Cummins contribution to the project progress smoothly from first discussion to implementation, and the customer has now met its requirement for self-generation of 2075 kVA to power Pakistan's port of the future.

For more information about integrated standby power systems, contact your local Cummins Power Generation distributor or visit [www.cumminspower.com](http://www.cumminspower.com)



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