



# Crucial backup power at the ready for a specialist Qatar nursing facility

## PURPOSE

To design and provide an emergency power substation for a new long-term care hospital

## SUPPLY

2 x Cummins C1675D5A diesel generator sets and PowerCommand® DMC2000 Digital Master Control

## WHERE

Hamad Medical Corporation Skilled Nursing Facility, Doha, Qatar



## Standby power to maintain patient care at a Doha medical unit, even if the grid fails

The Hamad Medical Corporation (HMC) is the main healthcare provider in Qatar and operates several state-of-the-art hospitals in the country's capital, Doha. One of its newest units is the Skilled Nursing Facility: a standalone, state-of-the-art 68-bed facility providing long-term medical and nursing care, physiotherapy and other treatments to elderly Qatari patients who no longer need to be in hospital.

While the specialist facility normally relies on the utility feed for its prime power, it was also vital it had a source of dependable backup power to sustain its 24/7 patient care in the event of a grid failure.

HMC selected local Cummins distributor Doha-based Cummins Qatar LLC, to deliver what was needed. Having partnered with the distributor on numerous earlier projects, HMC knew they could be trusted to provide the dependable turnkey solution it required. Cummins' Power of One™—the promise that Cummins products are built using only Cummins components for optimal reliability — and Cummins' world-class reputation reinforced HMC's choice.

With the client go-ahead secured, Cummins Qatar began work: designing, supplying, and installing a complete power plant to supply the reliable standby power needed.

**“Our ability to a supply turnkey power solution coupled with our understanding of the medical unit's need to have a totally dependable power supply were all-important to HMC. We're proud that we were able to deliver the highest quality standby plant on time and to their expectations”.**

**TONI AKIKI,**

*General Manager of Cummins Qatar LLC*



Cummins engineers specified the type, model, and size of the required generator sets, together with the design of the new power plant, which was sited in a dedicated substation 20 meters from the main facility. Two factory-tested Cummins C1675D5A diesel generator sets, an ACB Panel and a PowerCommand® DMC2000 Digital Master Control system were installed as the core power system. A NiCad battery and diesel storage day tank were also added. The proximity of the substation to the patient accommodation also required Cummins to house the generator sets inside 65dB@3m sound attenuators and acoustic walls to minimize noise. Before commissioning, Cummins conducted full Site Acceptance Tests (SAT) on the equipment to validate its installation and operation, and also ran hands-on operational training for HMC's on-site team.

Given the vital role of the standby power plant, a rolling maintenance contract was also put in place, through which Cummins provides ongoing technical support to ensure the power equipment remains in optimal working order.

Cummins' experience in delivering power that's right for the job gives HMC's Skilled Nursing Facility precisely what it needs: uninterruptible power to provide round-the-clock patient care, irrespective of any utility outages.



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