



Standby power

> Case History

Millennium Arts Project, Queensland Cultural Center



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Where:

Brisbane, Queensland, Australia

What:

Complete standby power system including three 1675 kVA Cummins Power Generation generator sets and PowerCommand® digital paralleling equipment

Purpose:

To provide emergency standby power for local cultural center

Primary choice factors:

Cummins Power Generation was chosen based on equipment quality, a proven set of skills and the company's guarantee of no loss of power at any time

Australia's Queensland Cultural Center protects library and art gallery with backup power system from Cummins Power Generation

BRISBANE, QUEENSLAND, AUSTRALIA — Queensland's new cultural masterpiece is a \$277 million building venture dubbed the Millennium Arts Project, located at the cultural center on Brisbane's South Bank. The landmark project was designed to create a world-class art museum and library. Construction included a new Queensland Gallery of Modern Art, redevelopment of the State Library of Queensland and a new entrance and foyer for the Queensland Museum. The gallery is the largest art museum in Australia solely dedicated to modern and contemporary art.

The Cummins Brisbane team (local Cummins Power Generation distributor) played a key role in the project by working with contractors to determine the best solution to ensure the center and its valuable collections would have a reliable supply of electric power.

Temperature and humidity control are vital for preserving the sensitive art and historical collections on display in both the library and the art gallery, and these environmental control systems depend on reliable



Three new Cummins Power Generation diesel generator sets plus PowerCommand digital paralleling equipment provide standby power and control for the Queensland Cultural Center.



Bovis Lend Lease senior electrical project engineer Des Dykes (left) with Jeff Evans and Darek Zimnoch from Cummins Brisbane, and Ben Chapman, Bovis Lend Lease project manager (services).

electric power. The Queensland Cultural Center needed a supplier that could guarantee there would be no loss of power at any time.

Expertise changes project scope

The original Millennium Arts Project building systems design called for the three existing standby generators — which had been in place for 30 years — to be supplemented by one additional generator set. However, Cummins Power Generation and Bovis Lend Lease, the building contractor on the project, agreed there was a smarter way to deliver the standby power protection the center desired. Together, they recommended an all-new digitally controlled emergency power system that would provide more power than the older system and have a useful life of at least 25 years.

The Queensland Cultural Center needed a reliable backup power system that could be depended on to protect the museum and library's valuable collections for a long time to come.

The building contractor was confident Cummins Power Generation could deliver the system design and equipment best for the center's needs. "Cummins Power Generation has a lot of skill sets we knew would be vital to this project," said Des Dykes, senior project engineer (electrical) for Bovis Lend Lease in Queensland. "From our previous experience with them in power generation projects,

we knew them to be a very focused organization." The new backup power system comprised three Cummins Power Generation generator sets and PowerCommand digital paralleling equipment. A Cummins Power Generation MC300 digital master control system is used to operate, monitor and control the 1675 kVA generator sets which are powered by Cummins 50-litre KTA50G8 low-emissions diesel engines.

Backup power protects valuable collections

Cummins Power Generation provided temporary power to all site facilities during construction. They also dismantled and removed the old system and installed the new, state-of-the-art emergency power system with no loss of power at any time. In addition to the three new generator sets, Cummins Power Generation supplied the network control and power switching system that allows individual loads to be turned on and off in the various buildings throughout the site.

With the assurance of its new emergency power system, the center can not only welcome visitors with confidence, but the Queensland library and gallery can be confident that its temperature and humidity-sensitive collections will be protected thanks to a reliable supply of electric power.

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

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