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Power  
Generation



# Standby Power

## Case History

Barcarena, Pará, Brazil

### Where:

Alubar Group Factory, Barcarena, Brazil.

### What:

Six C400 D6 generator sets, equipped with PowerCommand® PCC3100 digital master controls.

### Purpose:

Provide emergency standby and peak-shaving power.

### Primary choice factors:

Reliability, lower-cost energy, local service and support.

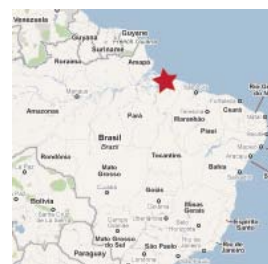
### Distributor:

DCML Norte – Cummins Minas Distributor.

## Alubar Group chooses Cummins Power Generation for affordable and continuous power.

The Brazilian conglomerate Alubar Group comprises three businesses:

- Alubar Metals offers fabricated aluminum and its alloys for electrical and steel applications;
- Alubar Cabos provides aluminum cables for networks and transmission lines;
- Alubar Energia participates in the energy concession and generation markets, with an emphasis on renewable energy sources.



The Alubar Group operations are located in Barcarena, Brazil in the northern state of Pará.



The DMC1000 controllers provide supervisory and power transfer functions with PowerCommand digital paralleling controls.



The generator sets installed in sound-attenuating enclosures at the Alubar plant in Barcarena, Brazil.

Through its aluminum operations, the company has played a significant role for more than a decade in the development of Pará, the second-largest state in Brazil and the most populous state in the northern region. That commitment is evident in Alubar's high technological standards, customer service, social and cultural projects, and relationship with its workers and local suppliers.

### Two problems, one solution.

The Alubar Group invests in advanced technologies in order to maintain its competitive position in aluminum rods and cables. Continuing that leadership requires reliable, affordable power. A failure of the power supply can paralyze production. However, the power available from the local utility was not always reliable. Moreover, the cost was unacceptably high during periods of peak demand.

A popular way to solve these twin problems of high cost and unreliable power is with combined-cycle generation, also called combined heat and power (CHP), or cogeneration. This is the simultaneous production of two types of power, generally electricity and thermal power, from a single source of fuel.

The solution to both problems was provided by Cummins Power Generation and its local distributor, DCML Norte. The Alubar Group power system consists of six Cummins C400 D6 generator sets used for both standby and peak-shaving prime power. These generator sets are rated at 500 kVA each for standby power and 467 kVA each for prime power. The units, sound-attenuated to 75 dB at 1m, operate in parallel,

controlled by a PowerCommand PCC3100 generator set communications module and a DMC1000 digital master control.

In addition to providing standby power in case of a power outage from the utility, the generator sets are used during the peak hours of 6:30–9:30 p.m. to provide more affordable electricity for the plant. So the system is providing cost savings as well as ensuring the availability of power at all times. In fact, the company reports that its electricity costs from the utility have decreased by about 30%.

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### World-class products and service.

Generator sets and controls from Cummins Power Generation earn their reputation as dependable, high-quality systems through technology, reliability and flexibility. And at Alubar Group, backing up those systems with equally world-class service is the local distributor, DCML Norte — Cummins Minas Distributor. It's another successful demonstration of The Power of One.™



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