



# Prime power

> Case History  
Jasmine Offshore Oilfield, Gulf of Thailand

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**Where:**

Jasmine Offshore Oilfield, Gulf of Thailand

**What:**

Six C1500 D6 gensets, powered by KTA50G9 engines, three on Platform B and three on Platform C, together with PowerCommand® Digital Master Control Model 200 and digital paralleling equipment, from Cummins Power Generation

**Purpose:**

To provide baseload power for the platforms and all their equipment, 24 hours a day, seven days a week

**Primary choice factors:**

Product quality, reliability, suitability for offshore applications especially in terms of their continuous rating and containerized installation, PowerCommand Digital Master Control, low maintenance cost and noise levels, and after-sales support

Cummins ensures continuous power supply for offshore oil platforms operating in the Gulf of Thailand

GULF OF THAILAND, SINGAPORE — PEARL Energy Pte. Ltd., Singapore (PEARL Energy), a wholly owned subsidiary of Abu Dhabi-listed company Aabar Petroleum Investments Company PJSC, is engaged in the exploration, development and production of oil and gas resources.

Since its first acquisition in 2002, PEARL Energy has built up a portfolio of exploration, development and production assets in several contract areas across Southeast Asia.

In early February 2007, PEARL Energy announced that production at its Jasmine oilfield in Block B 5/27 in the Gulf of Thailand reached more than 20,000 barrels of oil per day (bopd) following the successful start-up of the Jasmine Platform B.

Output at Platform B, which commenced production in late January, at an initial rate of 2,300 bopd, is approximately 12,000 bopd from six development wells. Platform A, which came on stream in June 2005, is averaging approximately 8,200 bopd.

Platform B has been installed approximately 3 km northwest of Platform A. A third production platform, Platform C, is currently under construction. Under the development plan, Platform B will have 12 production



One of the platforms of PEARL Energy.

wells and eight water injection wells. Platform C will have eight production wells. The water depth in this part of the Gulf of Thailand is around 660 meters.

Block B 5/27 covers an area of 1,931 square kilometers. Platform B and Platform C are connected via subsea pipeline to the Jasmine Venture MV7 floating production, storage and offloading vessel, which is located close to Platform A.

PEARLOIL (Thailand) Limited (PEARLOIL Thailand), a 70-percent-owned subsidiary of PEARL Energy, holds 100 percent interest in Block B 5/27. The remaining 30 percent equity in PEARLOIL Thailand is held by Choice Plus Holdings Ltd. PEARLOIL Thailand is the operator of Block B 5/27.

CUEL Ltd. of Thailand built and installed Platforms B and C, through an engineering, procurement, installation and commissioning contract from PEARLOIL Thailand. WorleyParsons (Thailand) Ltd. was the engineering consultant.

*“Contributing to the impressive performance of the Jasmine B development is the expertise of the technical team, as well as the quality and sophistication of the installed equipment and systems . . . powered by Cummins gensets with total reliability.”*

Six Cummins-powered C1500 D6 gensets, three on Platform B and three on Platform C, are providing baseload power around the clock, for the platforms and all the equipment needed to produce oil in the Jasmine field. The gensets, each powered by a KTA50-G9 water-cooled, 16-cylinder, diesel engine rated at 1122 kW, 1402 kVA, were supplied by Cummins Power Generation (S) Pte. Ltd., Singapore.

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Cummins Power Generation C1500 D6 gensets powered by KTA50-G9 engines.

installed equipment and systems. In turn, the operation of the equipment, as well as other activities on the platforms, is being powered by Cummins gensets with total reliability,” said Mr. Charlie Gawthorne, project and facilities manager, PEARLOIL (Thailand).

PowerCommand Digital Master Control Model 200 The top-of-the-line DMC 200 master controller will synchronize the operation of the gensets on each platform. The Power Master Control Model 200 is a microprocessor-based paralleling system component, designed to directly interface with Cummins PowerCommand paralleling gensets. The Digital Master Control is designed for use in low or medium voltage isolated bus (not utility paralleled) applications.

The control system provides flexibility to meet specific application requirements, ease of operation, advanced functionality and optimum system reliability and serviceability. The Master Control may be either separately installed at a convenient location or integrated into the system power sections when required.

The PowerCommand control is designed for mounting on the genset. Control power for PowerCommand and the Digital Master Control is derived from the genset starting batteries, and is backed up by an independent battery backup system.

Major control features include full function master control for isolated bus paralleling systems.

The automatic load adding and shedding system includes “smart” load sequencing to automatically add and remove loads in a prioritized manner, as the system capacity changes due to genset availability and also due to changes in system load level. The automatic load-sharing feature distributes the load among the gensets.

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

