



Standby power

> Case History

Advanced Info Service Public Co Ltd,
Bangkok, Thailand

Our energy working for you.™



Where:

The Metropolitan Operation & Maintenance (MOM) Department of Advanced Info Service Public Co Ltd, Shinawatra Tower 2, Bangkok, Thailand

What:

Two units of 1000 kVA 800DFHD generator sets, each powered by a QST30G4 diesel engine, together with PowerCommand® Control and Annunciator from Cummins Power Generation

Purpose:

Standby power for the MOM Department's 2000 kVA power requirement

Primary choice factors:

Proven track-record, product reliability, cost-competitiveness, lower noise levels, PowerCommand Control, quick-response service support

Largest mobile phone operator in Thailand picks Cummins Power Generation for standby gensets

BANGKOK, THAILAND — Advanced Info Service (AIS) is the wireless telecommunications arm of Shin Corp of Bangkok, Thailand. The company, in which SingTel of Singapore has an equity holding, operates the largest GSM 900 mobile network and the second largest GSM 1800 network. It is a major importer and distributor of mobile phones and accessories and provides a fixed line corporate data networking service.

AIS was listed on the Stock Exchange of Thailand (SET) in 1991. The company expanded its wireless communication networks by investing in Advanced Paging Co Ltd, a market leader in paging service under the brand name 'Phonelink'.

In December 2001, the company acquired the Digital Phone Company that directly operates the metropolitan GSM 900 network. All its other telecommunications operations are carried out through subsidiaries.

Standby Power

AIS occupies four floors of the 21-floor Shinawatra Tower 2 in Bangkok. The MOM Department, which has



Cummins Power Generation gensets capable of handling high SCR content loads.



Cummins Power Generation advanced PowerCommand Control ensures quick start up to power 2000 kVA facility load.

350 employees, occupies an area of about 1200 square meters. It comprises the Mobile Switching Center (MSC), Operations & Maintenance Center and the MSC Billing Center, which operate round-the-clock.

About 65 percent of its power supply is used for the mobile switching operations, while 35 percent is used for building facilities such as air-conditioning, lighting and the UPS.

Because an uninterrupted, reliable power supply is absolutely essential, the AIS MOM Department installed a standby generator system from Cummins Power Generation to back up the total 2000 kVA power requirement. The system comprising two units of 1000 kVA 800DFHD gensets, each powered by a QST30G4 diesel engine, was commissioned in April 2002.

“Having installed 12 units of various models of Cummins Power Generation gensets at several other AIS mobile switching facilities in 2001, including the two units in Shinawatra Tower 2, what impresses us about Cummins generators is their low noise level at less than 80 dBA at one meter,” said Mr. Somkit S, Engineering Support Manager, AIS.

“This, together with product reliability and cost-competitiveness, and the quick-response service support provided by personnel from Cummins Power Generation and its distributor Diethelm were compelling reasons why we chose Cummins gensets for the switching department as well,” said Mr. Somkit.

The gensets installed since 2001 are 2 x DFHD at MSC, Shinawatra Tower 2; 2 x DFHB at MSC, Bangna; 2 x DFHB at MSC, Nakornprathom; 2 x DFHB at MSC, Korat; 1 x DFHB at MSC, Lopburi; 2 x DFGB at MSC, Kornkaen; and 1 x DFEK at Sub-MSC, Nakornprathom.

The standby power generation system at the MOM Department in Shinawatra Tower 2 has several features, including automatic crossover and remote monitoring functions, facilitated by the PowerCommand Control.

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PowerCommand Generator Sets Control

Only Cummins Power Generation gensets are available with the industry-leading, microprocessor-based PowerCommand Control. This field-proven control system offers several attractive features, high performance, and reliability.

PowerCommand controls offer the capability of integrated digital paralleling, substituting less reliable, complex, and expensive paralleling equipment, with simple, off-the-shelf solutions. This is the system that does it all. With pre-integrated equipment that reduces the complexities of system design and installation. Smart microprocessing that gives the system unprecedented power to monitor itself. And interoperability that provides the flexibility of integrating standby power with a building automation system. Combining these advantages, Cummins Power Generation’s PowerCommand controls ensure state-of-the-art performance that is unsurpassed.

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

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