Standby power

> **Case History**
Dataplex

Power Generation

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Where:
Budapest, Hungary

What:
Four generator sets, model C200 D5 powered by QSK60 engine. Generator set controls include DMC 300 digital master control system, switchgear and utility paralleling.

Purpose:
Provision of reliable source of stand-by power Hungary's largest data centre to ensure all operations are unaffected in the event of a power blackout.

Primary choice factors:
- Proven reliability and quality of Cummins Power Generation products.
- Ability for installation to meet unique requirements of project such as low noise emission factor.
- Cummins Power Generation's ability to provide short-time-to market delivery to meet specific customer requirements.

Power solution for largest data centre in Central-Eastern European region

Dataplex, the first and largest data centre in the Central-Eastern European (CEE) region, is a wholly-owned subsidiary of the multinational group Magyar Telekom. From its headquarters in Budapest, its high-security data centre delivers mission critical services to customers primarily from the telecom, financial institutions and internet industries. Recognised as the third fastest growing IT services company in the CEE region in 2005, today Dataplex continues to be the leading provider of data centre services in Hungary. Located in the 8th district, within the main ring road of Budapest, the company offers high security storage and server hosting to its customers and is used by most major Hungarian telecommunications providers as well as many international carriers.

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Smooth operation of its equipment is ensured by an uninterruptible power supply that guarantees 99.999% availability. Dataplex required the latest generator set technology to support the quick take over of the mains load in the event of a power failure and during scheduled maintenance periods. The company turned to Cummins Power Generation and local distributor, CAD-Server Partnership Ltd, for the solution.

Cummins and CAD-Server fought off competition from CAT to supply CT200 D5 generator sets powered by QSK600 engines, a bespoke building management system, switchgear, transfer switches, utility paralleling and DMC 300 digital master control system. The company needed to meet a redundant power supply of 1.3kW power per square meter and installed 10kVA metering station supported by 5 x 2.5MVA transformers. The BMS (Building Management System) is based on Andover controls and covers over 7,500 sensor points throughout the facility.

One important consideration for Dataplex when selecting a supplier was the short time to market period, which provided Cummins Power Generation with a clear advantage over competitors. In addition, the latest technology and cost-effective operation and maintenance were a major advantage.

Cummins collaborated with all the contractors to overcome the practical challenges involved during the installation, particularly as the generator sets were installed on the roof of the building, which required a huge crane to lift them into position. This was managed perfectly by all the contractors working together in a team effort.

Dataplex was involved in overall design requirements for electrical and mechanical systems due to their extensive operational experience. The main contractor was Market Construction Inc, electrical contractors, AREVA and MGE Systems and the architect was local company, Hungaro-Austro Plan Ltd (HAP)

The system benefits from a cost reducing feature, which involves the rapid start and synchronisation of the generator sets which reduce the time necessary for the UPS batteries to bridge the gap between mains failure and take over by the back up supply. With automatic, manual and remote power control, the system, which is owned and operated by Dataplex, will also supply power during maintenance periods to ensure uninterrupted service to customers.

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

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