

POWER PROFILE

Customer: DoclerWeb Data Center

Location:

Budapest, Hungary

Customer Business Issue:

Uninterrupted supply of quality standby power for data center

Solution:

- One Cat® 3516B-HD 2500 kVA diesel generator set
- One Cat 300 Series Uninterruptible Power Supply (UPS)

Cat® Dealer:

Huntraco



A Cat® 3516B-HD 2500 kVA diesel generator set supplies standby power for DoclerWeb's data center and other company facilities.



Located in Budapest, Hungary, DoclerWeb provides co-location, server hosting and application hosting to hundreds of customers.

POWER NEED

Located in the capital city of Budapest, Hungary, DoclerWeb provides co-location, server hosting and application hosting to hundreds of customers, allowing them to offer complex Internet portals, databases or multimedia content in a safe, high-standard technical environment to a large number of visitors from all over the world.

Power outages – even minor voltage sags or spikes lasting less than one second – can cause sensitive equipment to falter, forcing the company to shut down its data servers and halt all business. To meet the company's uptime requirements, DoclerWeb needed standby power from an integrated system to ensure a highly reliable continuous electrical power supply for the data center and other company facilities.

SOLUTION

DoclerWeb turned to the local Cat dealer Huntraco for an integrated power system including a Cat 300 Series Uninterruptible Power Supply (UPS) unit and a Cat 3516B-HD 2500 kVA diesel generator set. The Cat UPS provides up to 750 kVA of power and, when combined with the generator set, provides stable, clean and quality power for the DoclerWeb data center and the rest of the company's facilities.

The flywheel-based Cat UPS system operates at up to 98 percent efficiency and ensures business continuity in the event of power disturbances. A minimal footprint, lower heat rejection and low maintenance costs also help to provide a very cost-effective solution over the life of the product. Programmable integration with a Cat generator set and other components assures greater system reliability and improves the total system operation.

"DoclerWeb is open to innovative solutions, and they used this new installation to compare the operational costs of their traditional battery-powered UPS with a new Cat UPS," said Balazs Sarkadi, the sales engineer for Huntraco Hungary. "DoclerWeb emphasizes high-quality, reliable technologies, and they do not consider any 'no name' brands."

The radiators for the engine were installed on the roof of the building as opposed to the typical placement in the generator room, leaving space for an additional generator set that will be needed as the data center expands.

"Even though DoclerWeb investigated other brands, only Huntraco and Caterpillar were able to offer a customized solution that included the installation of a cooling system on the roof," Sarkadi said.

RESULTS

The standby system for DoclerWeb was installed and commissioned on schedule with the excellent local support of Huntraco, and DoclerWeb now operates the highest performance Cat diesel generator set and first Cat UPS in Hungary.

To accommodate anticipated growth, DoclerWeb installed a power generation system with the capacity to expand in the near future to provide even more power. The mounting braces for exhaust mufflers are already installed, and the exhaust chimney is ready to receive the exhaust pipe for a second generator set. Also, space is available in the main switch room for an additional Cat UPS to meet increased demand.

For more information, please visit cat.com/powergeneration