

POWER PROFILE

Customer: Sabey Data Centers

Location:

New York, NY

Customer Business Issue:

Continuous standby power for the tallest data center in the world

Solution:

Four Cat® C175 generator sets

Cat® Dealer:

H.O. Penn



Intergate Manhattan is the tallest high-rise data center in the world.

POWER NEED

In 2011, Sabey Data Centers purchased Intergate Manhattan, the largest, newest, and most secure of New York City's data centers. Sabey oversees critical data management for customers including financial institutions, Internet sites, and a biomedical group. A protected environment is essential and it's safe to say security is not an issue.

"We are actually located in the secure perimeter of One Police Plaza, which is the headquarters for the New York City police department," said Mike Bosco, New York properties director of operations for Sabey. "So, in order to get any materials into this building, we have to go through a police roadblock."

Because of the critical nature of their businesses, the tenants cannot afford a disruption in power. If an issue were to arise, they need a reliable partner to step in and help.

SOLUTION

Together with their Cat dealer, Sabey chose four Cat C175 diesel generator sets to provide emergency power systems for their critical operations. Equipped with a four-stroke-cycle diesel engine, the C175 is designed for reliable uptime and works with an integrated control system for improved performance. Together, the generators provide 72 MW of backup emergency power capacity.

The Sabey team also knew Caterpillar would have no problem installing them on the 3rd floor, as they have installations on 30th up to 90+ floors in other New York buildings.

"I've been working with Caterpillar for almost 20 years. I haven't installed any other type of generators in any of my facilities," said Bosco. "One of the things is reliability and knowing that when the power goes down, the equipment is going to start up within the needed timeframe and re-feed the system. Another part of that is how the Cat dealer maintenance crew works. That reliability has always been there."

RESULTS

Sabey is successfully operating at Intergate Manhattan with Cat backup power ready in case of a power interruption or outage. They have room for 24 generators, if their power needs change. Sabey continues to operate over 3,000,000 sq. ft. of data center space and is consistently recognized for its world-class data centers and record of sustained uptime.

Mike Bosco and his team rely on local Cat dealer, H.O. Penn, for emergency power system service and maintenance even in the most challenging situations. While Intergate Manhattan hasn't been affected by any super storms, it could always happen in the future, and Bosco wants to be prepared.

"I've been through three major events in the last 15 years, including the 2003 blackouts in the city of New York," said Bosco. "I was running a building uptown with four Cat engines, and we were the only floors in the high-rise building that were still operational. That's why we use [Caterpillar] today, and we're going to continue to use them in the future."

For more information, please visit cat.com/powergeneration