

Featherstone High School

10kVA UPS System Replacement Case Study



Featherstone High School is a leading educational institution based in Ealing, London. They focused on delivering high quality lessons that support strong academic achievement. With the aim to give students a rich and rewarding education, filled with exciting and unique possibilities.

The school has been facing challenges with its existing 10kVA Symmetra APC legacy UPS (Uninterruptible Power Supply) system. The aging infrastructure has shown signs of decreased efficiency and reliability. If the school had a power outage this old UPS could have been a liability.

The Featherstone school's IT department decided to upgrade the system to ensure a reliable power supply for critical equipment and to align with modern energy efficiency standards.

The existing 10kVA APC Symmetra UPS, which has served the school for a decade, is currently end of life and is no longer meeting the growing power demands of the school's expanding technological infrastructure.

Cetronic was contacted to provide a site survey to inform the school of what size and type of UPS system would be suitable to protect the school's existing and future electrical equipment.

Featherstone High School

10kVA UPS System Replacement Case Study



“UPS systems need to be replaced every 10-12 years. If left longer, they can no longer be counted on to support the load in the event of a power cut.”

Alex Muirhead, Sales Manager | Cetronic Power Solutions

After discussions with Cetronic Power Solutions, Featherstone High School decides to replace its existing UPS with a new Riello UPS 10kVA Sentryum UPS system. This UPS was selected due to being able to support the current load required, as well as it being an ideal size to fit in the same location as the previous APC unit.

The Riello UPS Sentryum series is known for its advanced technology, high efficiency, and robust performance. The 10kVA capacity is deemed sufficient for the school's current needs while providing room for future expansion.

Key Features of Riello UPS 10kVA Sentryum:

1. High Efficiency: The Riello UPS Sentryum series boasts a high-efficiency rating, ensuring optimal power usage and reducing energy costs over time.
2. Advanced Monitoring: The UPS is equipped with advanced monitoring and communication features, allowing the IT staff to remotely monitor power conditions, battery status, and perform proactive maintenance.

A plan was created to ensure that the UPS replacement was completed without any problems. This included specific when and where the new UPS unit was delivered, ensuring the route to the UPS's location was clear and had enough room for the UPS to fit. In addition, arrangements were made to remove and recycle the old UPS and its batteries following WEEE guidelines.

The replacement process involved a Cetronic Power Solutions engineer attending after 15:30 on a weekday to carry out the changeover works. This ensured minimum disruption to the school's staff and students.

The existing APC UPS was placed into full external maintenance bypass – this means the load is now fed via the raw mains and continues running, but the UPS is no longer connected. This means there was no interruption to the school's power.

Our engineer removed the APC UPS, isolating all the connections to make the area safe. The new Riello UPS 10kVA Sentryum was then installed. Our engineers are trained to commission Riello UPS units, so once the installation was complete the UPS was commissioned straight away, leaving the school protected again from the same day.



Finally the old UPS was disposed of and a WEEE certificate was issued to the client.

Cetronic Power Solutions have been experts in backup power for over 50 years. At Cetronic we understand the importance of providing reliable power solutions that meet our clients' unique needs, tailoring any and all parts of the project to their specific needs.