

OPTIMISING RENEWABLE ENERGY TO DELIVER SUSTAINABILITY & EDUCATION



Incorporating iVolt into their operations has been a major win for PLC, offering cost-effective and reliable power supply while also aligning with their commitment to education and the environment.



The Presbyterian Ladies' College in Sydney is a highly regarded educational establishment that has been providing exceptional education to young women since 1888. As part of its commitment to sustainability, the college has implemented various initiatives aimed at reducing its carbon footprint and improving its energy efficiency. One of these initiatives was the installation of a solar power system, which was intended to offset the college's energy costs.

However, the system was not functioning optimally due to voltage fluctuations and surges that were affecting the performance of the equipment and reducing the savings potential of the solar installation. To resolve this issue, the college turned to iVolt, an intelligent and dynamic voltage optimiser.

iVolt is designed with independently controlled auto-transformers and a programmable micro-controller system that responds quickly to voltage variations, ensuring a stable output voltage of 220V (+/-1.5%) at all times. The micro-controller also measures the relevant frequency of the mains supply and works automatically over a wide frequency range, making iVolt highly adaptable. This dynamic design allows iVolt to optimise the power supply and reduce energy waste, making it an attractive solution for organisations looking to improve their sustainability and reduce their carbon footprint.

Since installing iVolt, PLC has seen consistent savings of over 6% in energy costs. The ability of the optimiser to fully utilise their solar panels has reduced their reliance on the grid

at a glance

PRESBYTERIAN LADIES' COLLEGE



80,397
TOTAL ENERGY
SAVED (kWh)



3x1000A
IVOLT SIZE



14/08/2017
INSTALL DATE



??
ROI ACHIEVED
(MONTHS)



11,765
CO₂ EMISSIONS
REDUCED (kg)



6.25
ENERGY
SAVED (%)



INFORMATION CORRECT AS OF 02/02/2023

and furthered their sustainability efforts. Additionally, iVolt's dynamic technology maximises the savings potential of the site by constantly optimising the power supply.

Thanks to iVolt's patented IRT (Intelligent Real-Time) technology, PLC was able to monitor and track their energy savings in real-time. This system provides real-time monitoring and reporting of energy usage and cost savings, allowing the college to make informed decisions about their energy usage and sustainability efforts. As a result of this increased efficiency, the college was able to achieve even greater cost savings and a more sustainable energy solution.



For more information on iVolt:

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The iVolt® was designed in the UK and production takes place at its facility near Heathrow Airport. The company is part of the global Sollatek group and is accredited to ISO9001:2008

iVolt® offer a vast range of product sizes, ranging from 63A to 3,000A and above in both single and three phase, with a number of installations having been completed throughout the commercial, retail, manufacturing, leisure and public sectors.

iVolt®
Intelligent Power Optimisation