

University of East Anglia Standby Generator Power

Location: Norwich

Products & Services Supplied: Rental Generators

Overview

Expanding to take on a number of new departments and buildings, the University of East Anglia turned to shentongroup to provide three backup generators whilst electricity provider, EDF, shut down power to allow for High Voltage upgrade work.

The Problem

Located two miles outside of Norwich city centre within 320 acres of parkland, the University of East Anglia has expanded rapidly over the past few years and now has in excess of 13,000 students, 2,200 staff and a choice of nearly 300 courses.

It is home to the Sainsbury Centre for Visual Arts, as well as a multi-million-pound Sports park, and more recently it has introduced a new School of Medicine, Health Policy, and Practice. Therefore, the university needed to upgrade its electricity supply to facilitate these and other new buildings under construction.

“The University turned to shentongroup to provide an integrated power package that would include all equipment and plant to provide standby power throughout the University.”



Solution

Steve Edwards, Electrical Design Engineer at the University of East Anglia, explains why shentongroup beat off a number of its competition to win the work: “We selected shentongroup Power Management as it was the only company that was able to provide a total package”.

The package initially included shentongroup providing three 1250kVA packaged generators which were synchronised together to form one power solution, rated at 3,750kVA. The low voltage power from this system was then put through a step-up transformer to convert it to 11kV and then connected into the university's primary power sub-station.

In addition, shentongroup also installed a separate 500kVA generator to run the university's sports hall which houses a swimming pool, fitness centre and human performance laboratory.

shentongroup's Technical Director, Derek Barry, detailed shentongroup's management approach to the project: “shentongroup meticulously project-managed the complete installation, and in addition to the generators and transformers, we also supplied cabling, essential HV protective matting, barriers, and also fuel supplies including; bulk tanks and refuelling service”.



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“They remained on site during the three day period to ensure that everything went smoothly”

Outcomes

Whilst EDF undertook their major upgrade work throughout the campus, the University of East Anglia enjoyed continuous power throughout, with the assurance that shentongroup staff were onsite throughout the three days.

On the university's experience of shentongroup, Steve Edwards commented: “They remained on site during the three day period to ensure that everything went smoothly”.

About shentongroup

shentongroup is the UK's leading technical expert in standby power, uninterruptible power supplies, and combined heat and power supplies. The company provides power solutions to organisations spanning a broad

array of industries that rely on continuous power supplies and includes; finance, telecoms, healthcare, manufacturing, retail, IT, government, utilities, sport and leisure, and of course, Education.

shentongroup's standby generator range includes single and three phase generator solutions, ranging from 10kVA to 3.2MVA. British built to the highest quality and safety standards, shentongroup generators are ideal for use as prime power or standby power supply usage. All include a full range of weatherproof canopies to meet sound attenuation levels; proven industry-leading control systems and switchgear hardware; integral bunded base-frame fuel tanks and fuel management systems; containerised modular solutions; custom built drop-over acoustic canopies; and skid-mounted 'open' sets for specific applications.

shentongroup also provides a range of DEFRA-approved bulk fuel tanks. These include plastic fuel tanks and double-skinned steel fuel tanks.

Polyethylene bulk fuel tanks are maintenance-free, fully-bunded and are OFTEC and DEFRA certified. They're available in capacities ranging from 1220 to 5000 litres. shentongroup's steel bulk fuel tanks are purpose built and double-skinned. They're manufactured to BS799 part 5 and comply to both statutory pollution prevention PPG2 and DEFRA regulations.

To find out more about your standby power options, contact the shentongroup technical team on 0844 888 444 5.

About The University of East Anglia

Home to some 13,000 students, 2,200 staff and a choice of nearly 300 courses. The University of East Anglia is a top 1 per cent leading research institution and 10th in the UK for research output. In 2015 the university was ranked 2nd in the National Student Survey.

Comprising 4 faculties and 28 schools of study, in 2010 it was named the 10th best university in the world under 50 years old.



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