

## BORRI POWER WILL SAVE THE DAY IF THE CHIPS ARE DOWN

Major IT services provider Blue Chip has ordered four of Borri Ltd.'s high efficiency Uninterruptible Power Supplies (UPS) for its showcase data centre, soon to be one of the most efficient and environmentally friendly data centres in Europe.

Blue Chip purchased the B9600 ECO-UPS systems to provide reliable and efficient back-up power for the recently-opened state-of-the-art facility in Bedford, which can house up to 600 server racks and is claimed to be one of the greenest facilities of its kind, with a target Power Usage Effectiveness (PUE) of just 1.1.

Independent reseller and one of Borri's premier partners, Buckingham-based NSSE, secured the order after effectively demonstrating the high efficiency levels that could be achieved, even at part load, when using Borri's transformer-based ECO-UPS solutions, which can reach an impressive operating efficiency of 95 percent, whilst operating in true on-line mode, and above.

The transformer-based ECO-UPS installed at Blue Chip's new £5million eco data centre offers the greatest electrical protection and comes with an impressive 0.99 input power factor (PF), giving improved efficiency and stability of the overall transmission network and a THDi of less than three percent to help eliminate any current distortion.

With independent power plant rooms sited either side of the main data halls, the electrical design preferred by Blue Chip was true 2N+1 with a combined parallel-redundant mode configuration. The decision to use 2N+1 was to remove any single points of failure that may arise and also allow for other UPS equipment to be maintained without transferring the load to bypass mode, which would expose the load to unconditioned power.

In partnership with NSSE, Borri delivered and commissioned the four B9600 400kVA units in conjunction with a dedicated back-up mains supply and bespoke electrical switchgear, allowing the UPS systems to be isolated for maintenance works. Borri has also catered for increased future electrical infrastructure requirements for Blue Chip, which is planning to deploy an additional eight 400kVA UPS systems from Borri.

Blue Chip Engineering Director, Vic Henry, said: "We were very impressed with the design and efficiency of the ECO-UPS systems. Borri also provided excellent technical advice on how to deploy the units. We are now planning for a further eight units over the months ahead to bring the centre to full electrical capacity and intend to upgrade to Borri's new B9600FXS series."

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# CASE STUDY



government's Energy Technology List (ETL). The ETL is part of the Enhanced Capital Allowance Scheme and a key plank in the Government's programme to fight climate change by providing tax incentives for businesses investing in equipment that meets energy-saving criteria.

With further energy price rises looming, it is now more important than ever for data centres to explore and understand the true cost of power. Borri can help by offering cost-effective ECO-UPS solutions that take into account power output, day-to-day energy consumption and environmental impact.

Transistors (IGBT) enables the B8000 UPS range to have a minimal effect on the mains supply, providing less than three percent harmonic distortion, allowing a generator to be downsized by as much as 50 percent.

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For more information call 01246 431431

[www.borri.co.uk](http://www.borri.co.uk)

