

# Voltage management for the future

**M**any Engineers, Energy Experts and FM Professionals are disregarding the benefits that the latest Voltage Optimisation systems offer having been miss-sold on the expected energy savings in the past or because they have doubts that the old Voltage Optimisation technology would be able to offer any real benefits.

The latest technological developments have put an end to these doubts.

e-efficient Energy's market leading eVO+R™ Voltage Optimisation plus Regulation systems deliver provable savings and are the only UK company to provide true Voltage Management with their unique tried and tested Buck & Boost technology.

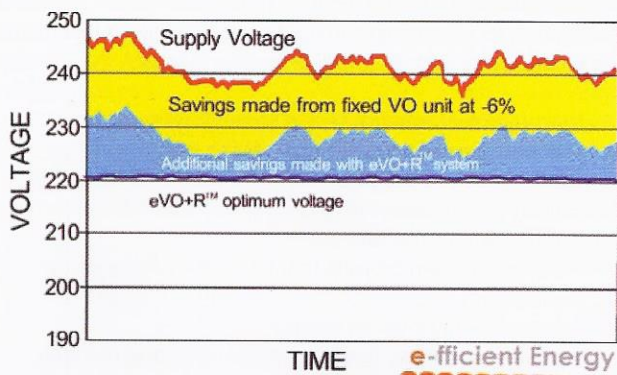
If you have considered, and rejected Voltage Optimisation in the past, now is the time to look at it again.

e-efficient Energy's eVO+R™ systems are not only delivering genuine guaranteed savings but the added benefits of a regulated and managed voltage is resolving Plant, Machinery and Electrical problems caused by Brown-outs and voltage spikes experienced across the UK. And the increasingly volatility of the UK Mains supply is remedied by these eVO+R™ systems – smoothing the incoming voltages to the optimum level for the particular characteristics of the site.

More and more companies, especially those with critical loads are investing in this technology to give them the peace of mind they need and eradicate their fears over existing and future voltage issues.

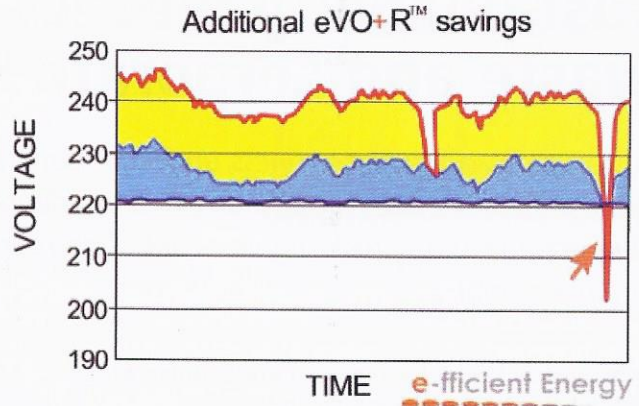
## Buck & Boost – why it is the better solution

Unlike other Voltage Optimisation systems which typically employ step down transformers which just reduce the incoming voltage by a set amount - for example 4% or 6% - the eVO+R™ Voltage Optimisation plus Regulation system intelligently optimises and regulates the incoming mains voltage and maintains it at the desired set point voltage. This is typically 220V to match the optimum voltage of the majority of electrical equipment but can be varied on-load at 1V increments to suit the exact needs of your building. This facility is unique to the eVO+R™.



eVO+R™ systems typically generate up to 30% greater savings in electricity usage than step down transformer systems – maximising your opportunity to reduce your electricity bills, carbon footprint, save more money and achieve the highest Return on your Investment.

The UK suffers from over voltage supply for the majority of the time and on occasion from under voltage. True Voltage Regulation is only achieved when the mains voltage is controlled not just when there is "over voltage" but also in "under voltage" scenarios.



This is known as Buck & Boost Voltage regulation - True Voltage Management.

Uniquely the eVO+R™ Voltage Optimisation plus Regulation system has an intelligent Buck & Boost facility which boosts the voltage up to 220V if the incoming mains voltage drops below 220V – safeguarding your sensitive electrical equipment and maximising the savings possible.

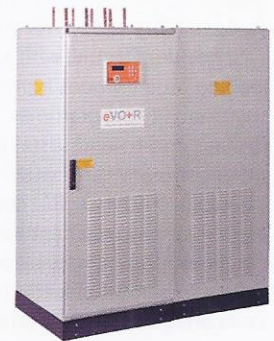
Buck & Boost Voltage Regulation controls the voltage via a multiple tap transformer. No other system on the UK market can offer this valuable benefit. The simple reality is that the National Grid voltage continuously fluctuates and most sites will suffer from a 12V voltage swing. Fluctuations in the incoming supply voltages limit the ability of basic fixed ratio Voltage Optimisation.

...and this Voltage volatility is set to increase as we reach the maximum power availability from the National Grid and as the Grid reacts to feed-in supplies from Wind power, photovoltaic and local generation.

The new Buck & Boost intelligent technology addresses these performance and reliability issues – guaranteeing a consistent output voltage and ensuring the user a continuity of supply.

eVO+R™ is a future solution for your business.

To find out how eVO+R™ Voltage Management can help you protect your electrical infrastructure, and reduce your electricity usage and carbon footprint e-efficient Energy have recently launched a Free Site Survey scheme to encourage companies to see if it will work for them – to benefit the e-efficient Energy team on 01909 569 016 or see their website at [www.e-efficientenergy.co.uk](http://www.e-efficientenergy.co.uk)



## e-efficient Energy

the technical leader in Voltage Optimisation plus Regulation  
maximising your electricity savings and carbon footprint reduction



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