

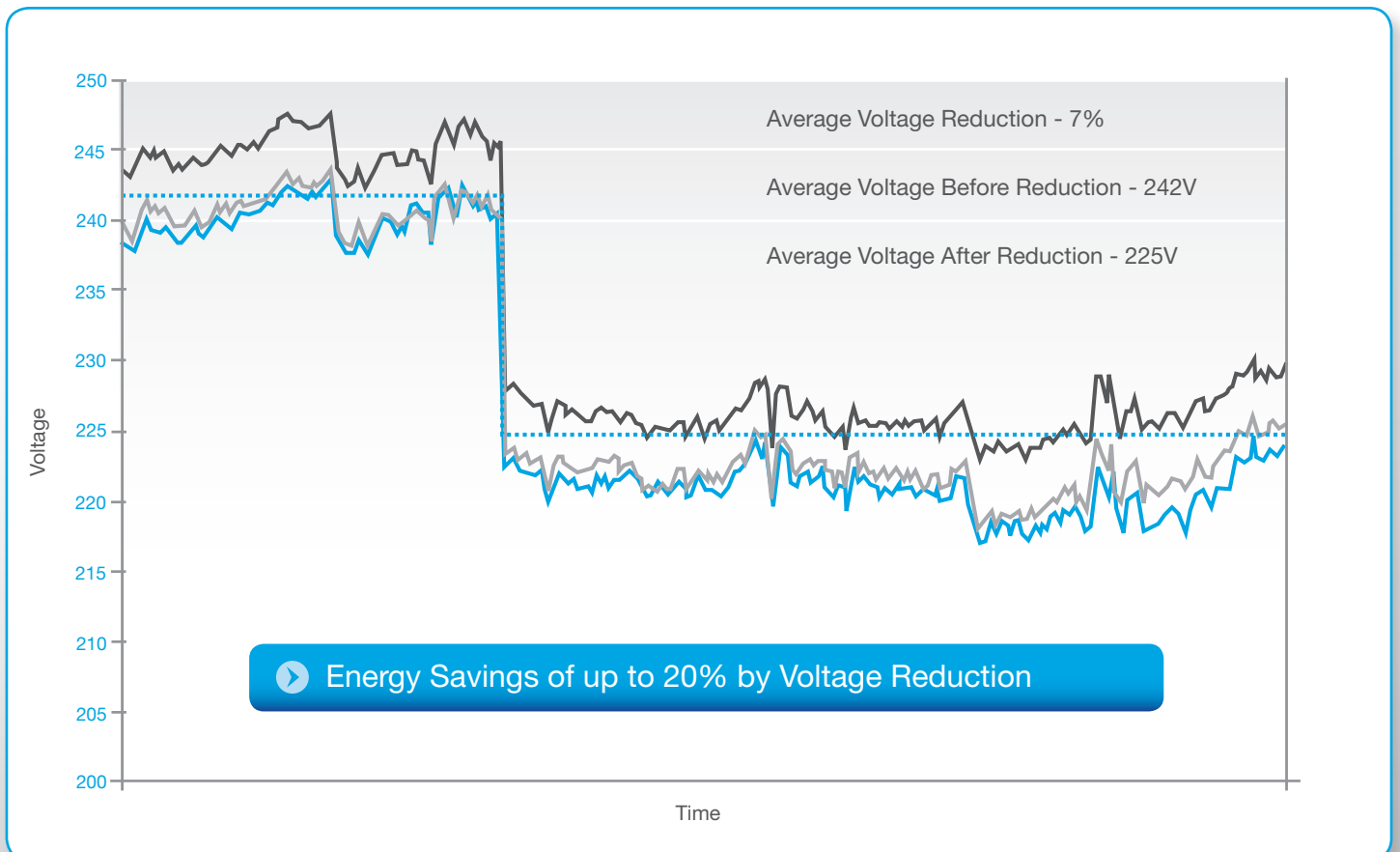


## EST Energy Saving Transformer

PowerSave™ is a voltage optimisation transformer that helps organisations make some of the biggest financial savings possible on their energy bills by reducing the mains voltage used to power electrical equipment. The PowerSave™ Energy Saving Transformer (EST), a tapped auto-transformer, reduces voltage by up to 12%.

The PowerSave™ EST reduces input voltage by a fixed amount, making it ideal for sites with a reasonably stable voltage supply. This proportional reduction helps prolong the life of electrical equipment while reducing carbon emissions – each kWh of electrical energy saved is equivalent to 0.537kg of CO<sub>2</sub>.

With organisations facing a steady increase in electricity prices, the PowerSave™ EST ensures a reduction on supply voltage while helping organisations reduce costs and meet their Carbon Reduction Commitments.



# EST Energy Saving Transformer



**power save**

Reducing energy worldwide

## Specification for Three Phase EST

Output Voltage	Maximum nominal reduction of 12%
Output Adjustment	3 fixed taps of 3%, 5% & 7% (others upon request)
Input Voltage	Maximum 440V three phase
Output Rating	100A to 3,000A
Supply Frequency	50/60Hz
Waveform Distortion	None
Efficiency	>99.5% at full load
Insulation Class	"H"
Temperature Class	"F"
Operational Temperature	-5°C to +40°C
Operational Humidity	95% non-condensing
Enclosure	IP21 floor standing (others upon request)
Transient Suppression	Optional
Warranty	Up to 5 years

Many types of electrical equipment work perfectly well on a voltage lower than the standard mains supply.

This is particularly true for equipment designed to operate on 380V or 400V three phase supplies where the supply is 415V, and for equipment designed for 230V or 220V single phase supplies where the supply is 240V.

The PowerSave™ EST provides a maximum output current of up to 3,000 amps per phase to reduce voltage by between 3% and 12%.

## Benefits

The PowerSave™ EST is proven, highly efficient and deliver a return on investment with minimal ongoing maintenance requirements.

- Energy savings of up to 20%
- Prolonged equipment life span
- Carbon Trust and Salix funds available
- Adjustable configurations based on site requirements
- Single and three phase options with ratings of up to 3,000 amps per phase
- Contributes towards CRC

### Additional Options

Metering  
Remote Monitoring  
External Bypass Switch

### Additional Energy Saving Products

**PowerSave™ Energy Saving Regulator (ESS):** Maintains a regulated output where mains supply quality is variable, delivering energy savings of up to 25%.

**Harmonic Reduction Transformers (HRT):** Removes harmful third harmonics from the neutral cable, resulting in overall energy savings.

E&OE issue 1 SD-002: Claude Lyons reserves the right to change specifications without notice due to continual improvements.