

Many sites in the UK are supplied by a higher than optimal voltage that is responsible for significant energy losses in voltage dependent equipment.

VOLTAGE MANAGEMENT THROUGH MV SUPPLY



Voltage Management is an energy saving technique that reduces these unnecessary losses by improving voltage to site. The Tx21 transformers we supply come with in-built voltage management capabilities that allow for easy adjustment to LV site voltage without the need for costly additional equipment.

TWO AREAS OF ENERGY SAVINGS

1 SAVINGS THROUGH REDUCED TRANSFORMER LOSSES

Based on a 30-year transformer lifespan, a 1000kVA Tx21 transformer will typically save £106,000 over its lifetime when compared with a modern, Eco design Tier 1 compliant transformer.

2 SUBSTANTIAL POTENTIAL SAVINGS THROUGH VOLTAGE MANAGEMENT

Tx21 transformers are designed to deliver a reduced secondary (415 instead of 433V). In addition the units feature an extended tapping range (+7.5%) designed to reduce site voltage at source without the need for costly dedicated voltage management equipment. This reduces plant footprint, avoids additional system losses and eliminates the need for additional plant maintenance.



GUIDELINE VALUES FOR NO LOAD VOLTAGE

HV VOLTAGE	TAP SETTING	LV VOLTAGE
11000V	7.5% (1)	384V
11000V	5% (2)	394V
11000V	2.5% (3)	405V
11000V	0% (4)	415V
11000V	-2.5% (5)	425V
11000V	-5% (6)	436V



