

A UNIQUE VOLTAGE OPTIMISATION
SYSTEM



Case Study:
Northern Foods –
Gunstones Bakery



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The Customer

Northern Foods produce branded and retailer own brand ready meals, sandwiches and salads, pizza, biscuits and puddings. With revenues of nearly £1 billion, they employ over 9,000 people at sites across the UK and Ireland

Gunstones Bakery at Dronfield produces a wide range of own label sandwiches, sushi and bread based products.

Installation & Savings

Following the installation of three Powerstar units at Gunstone's bakery (Dronfield) the following savings have been achieved.

Powerstar installation (TX2):

The average consumption the month before the Powerstar Installation for this transformer was 530.2kW per hour while after the installation this was reduced to 486.7kW per hour.

- Savings of 8.20%.
- An average direct saving of 43.5kW per hour.
- Therefore based on 360 days of production per year, the total savings on Tx 2 are 395,491kWh per year.
- Based on 6p/kWh the saving is £22,529 per year.

Powerstar installation (TX3):

The average consumption the month before the Powerstar Installation for this transformer was 430.1kW per hour while after the installation this was reduced to 387.8kW per hour.

- Savings of 9.84%.
- An average direct saving of 33.5kW per hour.
- Therefore based on 360 days of production per year, the total savings on Tx 4 are 365,883kWh per year.
- Based on 6p/kWh the saving is £21,953 per year.

Powerstar Installation (TX4):

The average consumption the month before the Powerstar Installation for this transformer was 345.6kW per hour while after the installation this was reduced to 312.0kW per hour.

- Savings of 9.70%.
- An average direct saving of 42.3kW per hour.
- Therefore based on 360 days of production per year, the total savings on Tx 3 are 289,561kWh per year.
- Based on 6p/kWh the saving is £17,374 per year.



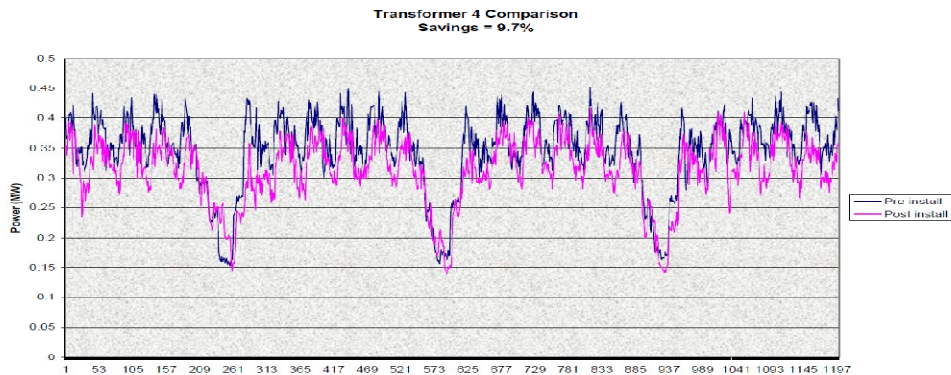
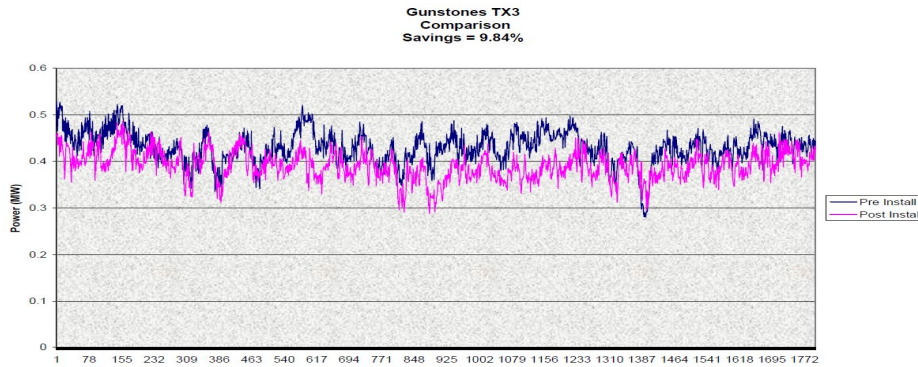
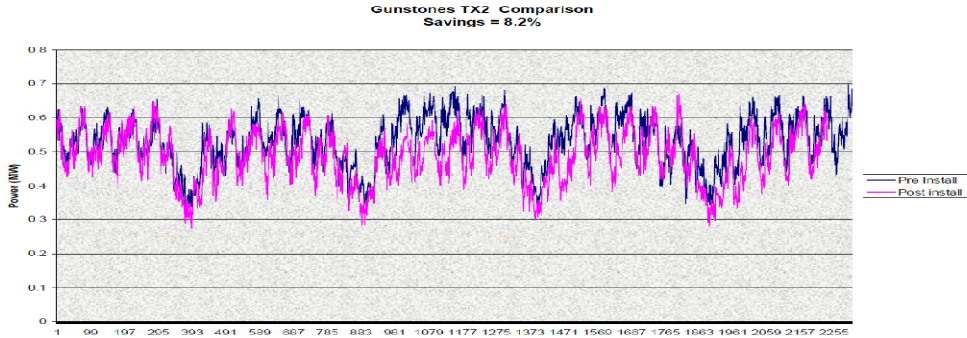
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Savings analysis



Savings summary

In total this equates to an average saving of 119.3kW per hour this equates to 1,030,935kWh (Based on electricity consumption in the two month period and extrapolated to twelve months) per annum based on 360 production days per annum.

Using 6p/kWh (as per proposal) this equates to £61,856 per annum.



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