

# Are you responsible for the electrical supply network in any factory, school, college, large retail outlet, government or commercial building?

If so, this leaflet may help you to identify a method of significantly reducing your electrical energy costs.

## How much electrical energy are you potentially wasting?

You may be able to increase your active power without increasing your supply capacity or replacing cables and switchgear.



You may be able to make significant Cost of Energy savings with a relatively small financial outlay, providing a short payback period. Also achieving a cost effective reduction to carbon emissions.

### Possible Solution

You can minimise the waste in your electricity consumption by improving your Power Factor and saving up to 20% of your electricity costs. Power Factor Correction is a proven technology utilised successfully in many installations over many years.

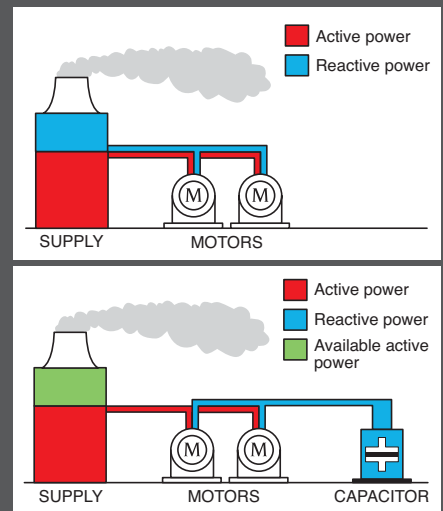


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## How does Power Factor Correction work?

In these two diagrams the first indicates an electrical supply feeding two inductive loads i.e. in this case motors. The supply consists of two types of Power. Active power shown here in red and reactive power shown in blue. The active power is useful in driving the motor but the large amount of reactive power is not useful, but still has to be paid for! Power Factor Correction involves installing capacitors into your electrical distribution system and has the effect of increasing the amount of available active power highlighted in green in the second diagram.

By installing Power Factor Correction you could save money on your electricity bill and also reduce heating losses in transformers and distribution equipment, increase plant life, stabilise voltage levels and increase the electrical capacity of your existing equipment. These benefits all lead to improved profitability.



## What does Power Factor Correction look like?

Eaton manufactures a comprehensive range of Power Factor Correction equipment which can be installed as separate stand alone units in your plant room or for mounting in existing switchgear enclosures.

### How can you find out more ?

Simply contact Eaton on +44(0)121 685 2011 to discuss your application. To advise on whether the installation of Power Factor Correction could be beneficial to your application, in most cases all the required data can be gained from a site survey together with a recent copy of an electricity bill. Initially we may be able to provide some outline advice over the telephone if you can provide us with details of the Maximum Demand KW, KVA rating and the existing Power factor.

**Ring Eaton on +44(0)121 685 2011 to help you with the following four simple steps...**

1.

Carry out a survey of your current electrical supply.

2.

Verify the impact of installing Power Factor Correction equipment.

3.

Factor in the cost of installing a Power Factor Correction Unit.

4.

Establish the value of savings and the payback period.

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