



Power Factor Correction

Power factor is a measure of how effectively you are using electricity at your workplace. Poor power factor can be expensive for your business.

Poor power factor also reduces system capacity by increasing current flow and causing voltage drops and requires the unnecessary oversizing of the network to meet supply (kVA demand) requirements.

As a result, many electricity network companies charge large commercial and industrial customers when power factor falls below 0.95 lagging. Plus, if your network company pricing has a component based on kVA demand (either maximum or co-incident), the poorer the power factor, the higher the kVA demand and higher the network charge.

The good news is, poor power factor can be corrected.

Benefits of improving Power Factor:

- Reduced energy costs (Reactive charges and possibly kVA charges)
- Lower transmission and distribution losses in your electrical system
- Higher and better quality voltage regulation
- Increased capacity available to serve actual working power requirements
- Reduced non-productive loading on the system.

Talk to us about improving your Power Factor:

The best way to improve your power factor depends largely on the site specific operating considerations involved. Where power factor is consistently below .95 lagging, one solution is to invest in power factor corrective equipment. There are a range of technical issues for consideration prior to sizing and installing corrective equipment, so it is best to talk to a **power factor specialist** about it.

As an Empower customer, we can advise you on your current level of power factor and whether your network charges include a reactive penalty charge for poor power factor and/or a kVA demand based charge.

We can then help you to find out about potential savings per annum to be made from installing power factor correction equipment.

Empower can arrange for a power factor specialist to visit your site and provide a quote for Power Factor Correction Equipment, specific to your site requirements.

Empower can project manage the entire process from power factor correction equipment quote initiation - through to installation and commissioning of the equipment. Little time or resource is required on your behalf.

Empower offers a deferred payment option to approved customers for the purchase of new or additional Power Factor equipment. You own the equipment and pay back the cost over an agreed term as monthly instalments on your electricity invoice.

For further information about Power Factor Correction and applicable terms and conditions please contact your Account Manager or call our Business Team on 0800 307 000. Alternatively you can email us at business.support@empower.co.nz to discuss this offer.