

Power factor correction.

Power factor correction can save energy, money and our environment.

In simple terms, power factor is a measurement of how effectively your business uses the electrical power supplied to the site.

A power factor of 1 (or unity) is excellent. A power factor of anywhere between 0.9 and 1 ensures your business is using its energy effectively. However a power factor of below 0.9 may mean a higher than necessary kVA demand. Your business may be using energy ineffectively, resulting in unnecessary expense charged on your electricity bills.

A power factor correction solution, tailored to your specific business needs, can be an effective way to improve your business' power factor and reduce distributor demand (measured in kVA) ensuring you get the most from your energy dollar.

What are the implications of a low power factor?

- Various distribution networks in New South Wales, Victoria and South Australia charge extra for sites with a poor power factor.
- Low power factor could also lead to stressing of the internal electricity infrastructure. This may cause unnecessary overheating and equipment degeneration.
- Added cost for new installations because of the need to oversize cables, switchboards and other electrical equipment.
- Poor power factor can also lead to lower than "normal" voltages within a plant and consequently present unreliable equipment performance.

What benefits can be realised by addressing poor power factor?

- Allows your business to lower its ongoing energy kVA demand charges, saving you money.
- Allows your business to optimise the life of its electrical assets and delay or avoid unnecessary electrical system upgrade and replacement costs.
- Reduces the threat of operational downtime caused by the overloading of your electrical assets within your facility.
- Benefits the environment by conserving resources thus reducing greenhouse gas emissions.

Power factor correction services.

Power factor can be improved through the installation of automatically controlled capacitor banks. These are designed and sized to suit particular site conditions and load.

Our specialist consultants can analyse the meter data, review site conditions, design and offer a turn-key power factor correction solution that is sensitive to your site's individuality and operations.

For more information about Power Factor Correction or if you'd like to discuss your energy needs, please call your Account Manager or our Sustainable Business Solutions team on 13 23 34, between 8.30 am and 5.00 pm, Monday to Friday.