



POWER FACTOR MANAGEMENT

Resolving Power factor issues
to reduce your energy spend

Power Factor measures effective conversion of electricity power like heating, cooling and lighting on your site. Poor Power Factor – usually below 95% – means you’re paying excessive costs via direct or indirect penalties from your network company.

Poor Power Factor can also cause:

- Low voltages which can affect equipment performance
- Reduced capacity in your electrical system

Reduced capacity in your electrical forces you to:

- Switch off equipment at peak demand times
- Invest in switchboard upgrade to install new equipment on site or reduce outage risks

FIXING POWER FACTOR ISSUES

At Smart Power, we’re experienced in improving Power Factor to reduce energy spend and risk.

We understand that poor Power Factor usually arises from inductive load e.g. air conditioning, fluorescent lights, lighting ballasts, lifts, power transformers and welders. Although we can identify and fix the problem at the source, it is not always the most cost-effective solution.

Installing Power Factor corrective equipment (capacitor banks) on your switchboard is usually the best approach to manage your whole site. We recommend installing a ‘Smart’ controller with the capacitor banks to enable them to be switched on and off automatically as needed.



THE PROCESS INVOLVES:

1. Analysing your meter's data to assess Power Factor (PF) correction needed
2. Identifying any existing PF corrective equipment*
3. Sourcing quotes to install or repair PF equipment on site
4. Writing business case outlining the cost benefits
5. Inspecting site switchboard
6. Manage equipment installation and monitor performance during initial stages for quality assurance

*Power Factor corrective equipment must be regularly monitored and maintained to ensure optimal use. We offer monthly monitoring services for Power Factor as well as monitoring whole-site performance.

BENEFITS

- Avoid network penalties
- Improved equipment performance through higher voltages
- Improved electrical system capacity
- Experienced in managing whole site performance
- Independent advice
- Ongoing monitoring services.

WHAT OUR CLIENTS SAY

"Expertise and advice"

"Provides sound advice. Good technical expertise"



Contact Us

Australia

Smart Power Utilities Pty Ltd
PO Box 608, Eltham
Melbourne VIC 3095 AUS
TEL/FAX +61 3 8669 1657
rod@smpwr.com
smartpowerenergy.com.au

Wellington, New Zealand

Suite 3, 99 Mana Esplanade
PO Box 57058 Mana,
Porirua 5247, NZ
TEL: +64 4 233 0717
FAX: +64 4 233 0716
office@smartpower.co.nz
smartpower.co.nz

Auckland, New Zealand

PO Box 90748,
Victoria Street West,
Auckland, 1142 , NZ
Level 2, 23 Union Street,
Auckland Central 1010, NZ
TEL: +64 9 358 1259
FAX: +64 9 358 1263
shaun.hayward@
energysselect.co.nz
energysselect.co.nz

