

BENEFITS OF POWER FACTOR IMPROVEMENT & FILTERS

The installation of Power Factor Improvement equipment at your site will provide you with the following benefits:

1. You will receive significant annual cost savings in Energy charges off your current Electricity Bill (where the tariff is kVA demand). This will be an on going savings for the life of the equipment.
2. You will have a short payback period - usually 1 to 3 years.
3. You will meet your legal obligations by complying with the Australian Standards and Electricity Distribution Code (EDC) ensuring you satisfy your Network Provider's requirement for Supply of Electricity.
4. You will reduce the strain on the Network Provider's supply system and help avoid any possible "blackouts" in your area.
5. You will free up spare capacity on your Transformer and Main Switchboard and therefore reduce the total power required by the site. This provides you with spare capacity for future load growth without the need to upgrade the infrastructure.
6. You will reduce the supply system losses (I^2R losses) in cables, transformers and switchboards ensuring longer life from the installation.
7. Your installation will have a more stable and improved voltage regulation ensuring motors and plant operate at maximum efficiency.
8. Your installation will have reduced the existing harmful system harmonics and therefore reduced the occurrence of power quality related equipment such as "unidentifiable" faults and spurious malfunctions.
9. You will have minimized the pollution of an otherwise "clean" network in your neighbourhood by suppressing the harmonic content in the supply.
10. You will Reduce the flickering effect in computer screens that is normally associated with voltage drops in the neutral conductor.
11. You will reduce the temperatures in the transformers, motors and generators due to eddy currents.
12. You will reduce the nuisance tripping of electronic circuit breakers through the overloading of cables and the "skin effect".
13. You are helping to minimize the Greenhouse Gas Emission (CO₂) by reducing the amount of natural resources required to be processed for producing useful electricity.