

ELECTRICAL ENERGY AUDITS

**Do you realise that you
can save energy and
reduce your power bill?**

McNae Electrical Solutions can conduct an Energy Efficiency Audit and provide a report of electricity consumption for your commercial or residential property. This will give you the information necessary to implement energy saving initiatives that will save you energy and money in the long term.

WHAT WE DO

We come to your premises with sophisticated power logging equipment which we will install in your electrical switchboard. This will monitor your actual power consumption. We then prepare a report showing



**McNae Electrical
Solutions Ltd**

where your power is being used and what you can do to reduce your consumption. We provide a range of recommendations that are tailored to your specific energy use profile. This allows you to act on the savings initiatives that best suit your home or business.

ISN'T AN AUDIT EXPENSIVE?

You may think that an energy audit costs money that you don't have.

Think again... an energy audit costs little compared to what it might save you. It's mainly an investment in time—and the potential savings in energy and money are too big to ignore. Remember:

- Wasted energy can happen anywhere, and you won't know until we look.
- You're in it for the long haul: Savings through making your electrical systems "run right" will continue for years after an audit is done.
- It's free money: Savings in energy costs may be recycled to meet other needs.
- You're the boss: While the fixes we recommend in your report have realisable payback periods, you are the one that chooses which of them to implement.

Depending on the number of circuits surveyed, a residential audit costs from \$400 and a business audit from \$750.

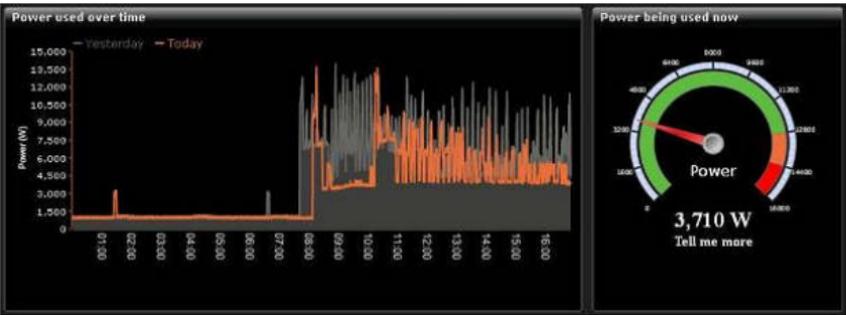
Remember this is often less than 10% of your electricity spend in a single year, but the savings from implementing



the recommendations from such an audit are typically 10 – 20% of your annual energy spend **every** year thereafter. This means that an audit soon pays for itself and is always well worth doing.

WHAT'S INVOLVED?

We will conduct a measurement of power consumption and power quality. We use a Multi-Phase Power Logger to measure and record electrical power parameters at the incoming point in your house or commercial premises. We then use a 16 Channel Power Logger to record and monitor



power use at the switch boards in your facility. We measure daily power use on 16 different circuits at a time. The data is transmitted wirelessly to our servers where we collate and use this to evaluate your facility's peak demand and power usage.

POTENTIAL AREAS FOR SAVINGS

Our report will help you identify savings that can be made. Some of the areas we report on include:

Energy usage optimisation

Do you know when you use the most electricity or your night usage pattern? Our report will identify your maximum demand and energy consumption profile. With this information you can find out where the dollars are going and where to make savings.

Lighting

Many light fittings and illumination methods are now being superseded by new technology developments. Our audit report will identify inefficient lighting and recommend affordable upgrade options.



Compressed Air

Compressed air is a notoriously inefficient use of energy and if our report shows high compressor use, we will suggest avenues for improvement.

Power Factor Correction

Power factor is frequently found to be a problem in large industrial sites because power factor correction units are not working correctly or have not been installed. This can result in significant penalty charges being imposed by your electricity company.

Motor control

You can save energy by increasing the efficiency of fans and pumps in your business. But you can't determine the viability of upgrades unless you first know your usage patterns. Our energy audit will give you this information.

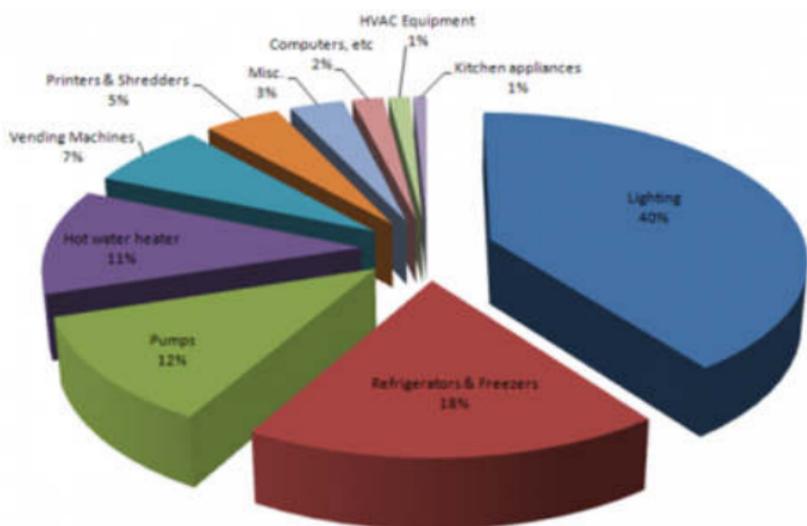
Meter accuracy and optimisation

Unsure if your power bill is accurate? Our power logger will tell you. This information also enables you to optimise your usage patterns, e.g., through load shedding to reduce your power bill.

WHY CHOOSE US?

McNae Electrical Solutions is a family owned business that has been operating in the Manawatu for over 25 years.

Yes, we do energy audits. But we also back that up with the experience and expertise required to implement any electrical upgrades you may require. Our name says it all—we have the **solutions** to all your electrical needs—residential, commercial, and industrial.



OTHER THINGS WE DO

- Full residential, commercial and industrial design and installation service
- Repairs and maintenance with 24 hour call out service
- Lighting upgrades
- Solar electric installations
- Solar swimming pool heating
- Thermographic imaging inspections

- Automatic gates
- Commercial door systems
- Portable Appliance testing and tagging
- Vehicle hoists
- Industrial automation
- Generator installation and hire
- Power factor correction
- Alarm systems & security cameras
- Irrigation, dairy sheds, and farm systems
- Electronic and scientific equipment servicing
- Multimedia and projection systems



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