

"Get more than you asked for!"

Energy Efficiency Initiatives



Analysis



Lighting



Metering



Solar

As energy costs soar, businesses everywhere are feeling the pressure. With energy costs expected to continue to rise, smart companies are rushing to investigate ways of reducing their energy consumption.

As an Electrical Contractor, Haines Electrical Service has the ability to be so much more than just product salesmen or consultants. We have the ability to test electrical installations at the outset, install monitoring devices, supply and install energy efficient products and monitor their effectiveness.

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An Energy efficiency review by Haines Electrical Service typically involves:

- Review of electricity account
- Site audit
- Switchboard review and load testing

Recommendations from the review are comprehensive, however we highlight those recommendations that provide the best return on investment. Some common interventions we provide include:

- Energy efficient Lighting changeovers
- New wiring for tariffs
- Smart metering
- Switching controls (PE cells, timers, smart controllers)
- Photovoltaic (Solar) Systems

Trust an Electrical Contractor

- All analysis and installation work is undertaken by licenced electricians.
- The products we recommend aren't simply ideas from a catalogue. They are products we have installed, tested and monitored in real world applications.
- Haines Electrical Service are Accredited Master Electricians and hold full membership to the SafetyConnect Program.
- We are able to review a single site or across the country for multi-site businesses. We hold Electrical Contractors Licences in QLD, NSW, Victoria, South Australia and Western Australia.

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Energy Efficient Lighting

When looking to reduce energy costs at a commercial site, lighting is one of the obvious things to consider. Lighting is typically found through all areas of a site and often runs continuously for long periods of the day. It is estimated that lighting accounts for around 25% of energy use in the commercial sector.

The Australian Government has placed restrictions on the sale of incandescent lighting, the worst of which were terribly inefficient, losing up to 90% of consumed energy as heat. However, there are still wide variances in the energy efficiency of different lamps and fittings available in Australia.

Advances in new lighting technologies, such as LED lighting, has brought about opportunities to dramatically reduce energy consumption. LED technology has also now dropped to a price that makes for an excellent return on investment.

Product Example

The HWP200LED Highbay is an LED fitting that can be used to replace traditional 400W Highbays.



Fitting	Total Energy Consumption	Lamp Life
400W Highbay	419W	18000 hours
HWP-200LED	198W	50000 hours

Annual Energy Saving per fitting	596.9 kWh	Savings Information
		• 54% less energy consumed than traditional Highbay
		• Longer lamp life = Reduced maintenance costs
		• Reduced fitting heat = Reduced Air-con energy costs

We're here to help!

Determining the return on investment for a change to energy efficient lighting is dependent on a wide range of factors, including usage patterns, lux levels required and the existing lighting being used. Haines Electrical Service is more than happy to review your site and to provide calculations of expected costs, energy savings and return on investment.

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Metering

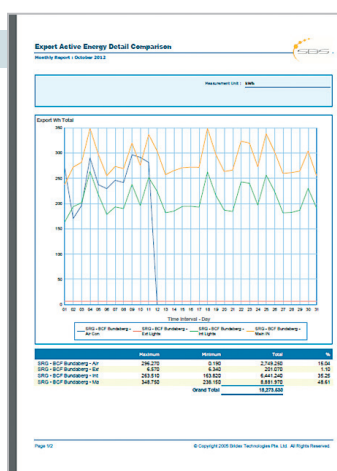
Smart metering devices play an important role in identifying where and when energy is being consumed within a workplace. Haines Electrical Service can install a metering solution that suits your needs, ranging from simple digital meters that assess overall energy use at any given time through to advanced meters that distinguish between light/ power and air-con usage, provide reporting tools and which can be remotely accessed in real time via the internet.

Why meter?

Accurate metering allows businesses to identify areas of work that are being run inefficiently. This information can then be used to identify which energy efficiency measures will give them the best value for money

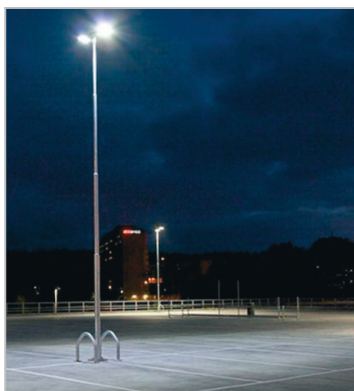
More than monitoring!

While smart metering is primarily a tool for monitoring energy use, a common side effect of installing smart metering is a change in work place practices and employee behaviour as a result of understanding which practices and behaviours are being done inefficiently.



Switching

A fundamental principle of energy efficiency is to ensure energy is only being consumed when it is required. Haines Electrical Service can supply and install a range of devices from simple sensors and timers through to advanced lighting modulators that control lighting based on the amount of natural light present.



Case Example

Carpark lighting can be controlled by both a PE Cell and a timer. The PE cell turns the lights on when it gets dark, thereby avoiding unnecessary lighting periods that occur as day lengths change with the seasons. The timer turns the lighting off at the time set by the business.

Haines Electrical Service has the skills and experience to recommend and install switching and control systems that will ensure that you are only using energy when you require it!

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Moving Forward

Haines Electrical Service is proud of our Energy Efficiency Initiatives. We hope that the information in this pamphlet has highlighted the benefits of undertaking a review and that you can see how it would benefit your business. If you would like to organise an Energy Efficiency Review or would like further information, please don't hesitate to get in contact to discuss.

Our Contact Details:

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Other associated works:



Electrical



Data



Air Conditioning



Solar

For more information visit:

www.haineselectrical.com.au

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Electrical Contractors Licence

State _____ Licence Number

Qld _____ 67359

NSW _____ 203132C

Victoria _____ 18520

South Australia _____ PGE221381

Western Australia _____ EC008482