

How to reduce your energy costs

By effective monitoring to identify and eliminate energy wastage events quickly

A large industrial plant could have up to several hundred energy wastage events per year. If not found quickly these will certainly cost you more in energy, and will very likely lead to higher maintenance costs and lost production time.

But most plants, despite having a sophisticated SCADA system, have limited access to real time data or just don't have the resources to process the data to make timely decisions.

Instead of finding problems days, weeks or even months after they occur, we find them within hours. Our **Energy Management Centre (EMC)** gives you access to your energy and operational data when you want it, and provides extensive reporting, alarms, and advice to improve performance.

We are an independent company, not limited to specific brands of software or hardware. Our sole focus is saving you time and money, using the most suitable solution available.





Do you have any of these site challenges?

- I have numerous sub-meters already but I have problems getting and/or using the data from them.
- I would like to install sub-metering, but I'm not sure what's the best location for each meter.
- I have a SCADA system, sub-meters, charts and reports, but I still can't see what I'm supposed to do next to reduce my energy costs.
- I can't get my energy data all in the one place. It takes me hours each month just to get the data from all my different systems into a single spreadsheet.
- My demand charges are 40% of my bill but I have no way of controlling them.
- Our bills have gone up, but so has production. I don't know if my plant is actually operating more efficiently.
- I have no idea if the projects I implemented last year are still saving energy.
- I've got an energy management platform but it gives me 50 alerts a day. I can't deal with this many alerts.

The solution – Out Performers' Energy Management Centre

We'll get your sub-metering, billing and operational data all together on our central EMC web-based platform, so you can access it whenever you need it.

We interpret and analyse your data for you, giving you a list of actionable insights that you can put in place today, so you can save energy straight away and keep on track to achieving your energy targets.

“Energy use has to be monitored before it can be managed. Experience in the UK of detailed monitoring and targeting is of savings of between 5% and 25% with little or no additional capital expenditure.”

UK Department of the Environment, Energy Efficiency Office, *Good Practices Guide 31*, cited in *Energy Use in Commonwealth Operations 1998-99*, by Leyden Deer & Catriona Johnson, Energy and Environment Division, Department of Industry, Science and Resources, published by Commonwealth of Australia, March 2000, p 52



1

The **Energy Management Centre (EMC)** is an energy monitoring and reporting service that uses real-time data and analysis to save you money.

5

Understand, capture and centralise your data

By understanding your site, your business, and your priorities in detail, we identify the right energy and other parameters you need to track to reduce your energy use and improve plant performance. We design and set up the infrastructure needed to capture all the required data, including installation of sub-metering, and collate it through our energy monitoring platform. You can then access this data through any web-enabled device, such as laptop, tablet or phone, whenever you want.

2

Energy Reporting

Automated energy reporting saves you time, helps with compliance, and improves visibility over your plant costs. Receive consistent and accurate reports with the information you need on time every time. You can also run one-off reports as required.

3

Identify Energy Cost Savings – Actionable Insights

At each reporting period we give you a clear list of actions that will save energy, prioritised by consumption and cost impacts so you can address the items most critical to you. Business cases can also be developed for large projects, to show their return on investment (ROI).

4

Alerts and Alert Triage

Our alert triage system ensures you don't get buried by hundreds of nuisance alerts, and are only contacted for critical issues, such as equipment failure and impending failure, or for opportunities to avoid excessive energy charges for peak demand, etc.

Verify and maintain energy savings

Although your energy efficiency projects should deliver their promised savings when first commissioned, there is no guarantee those savings will continue to accrue. By continuously monitoring your entire system, we can see when energy savings start to reduce and will advise the best action to rectify the situation. This ensures you get the most out of your investment in energy reduction projects.



What are the benefits of our EMC?

- Understand the cost of production per product across your range – your cost of doing business.
- Find out when you are wasting energy, so you can take steps now to stop it.
- Know which energy efficiency projects to invest in next – the ones that will give you the best returns.
- Maintain energy savings of existing projects – don't let energy use creep back up!
- Use benchmarking and forecasting to achieve targets and to reduce your peak demand charges.
- Have access to operational KPIs from SCADA to your phone within minutes to optimise performance.

Out Performers' expertise in energy metering and monitoring has been recognised with an award at the 2014 National Energy Efficiency Conference in Sydney. Our extensive sub-metering project in a food processing facility was awarded Highly Commended Best Industrial Energy Efficiency Project 2014.

For more information on how you can reduce your energy costs through pro-active energy management, call us to arrange a free on-site review.

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or +61 3 9521 9821 (VIC) or
email info@outperformers.com.au**

Out Performers works with Australia's biggest energy users

We work with large industrial and commercial energy users spending more than \$2m on electricity annually to reduce their energy costs while improving performance. Our core competency is energy measurement and verification ('M&V') which ensures we improve financial returns and reduce the risks associated with implementing energy efficiency projects.

Our engineers implement a comprehensive process to develop rigorous investment grade business cases for energy efficiency opportunities and can provide full turn-key implementation to ensure energy savings are realised with the best possible payback. Our independence from manufacturers and suppliers means we offer unbiased advice based on objective criteria. Working with over 100 of Australia's top 300 energy users, we have reviewed more than 1,000 energy efficiency projects and we've learnt what works and what doesn't. We are confident about the energy savings we can achieve for you. Ask us about our **Energy Savings Guarantee**.

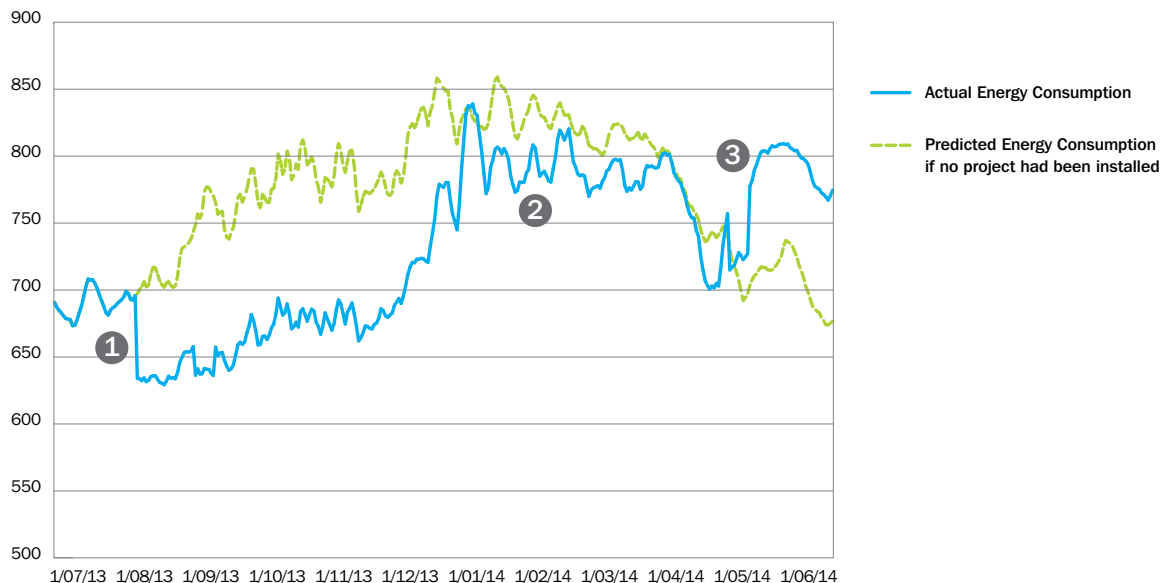


Case Study: Energy Reduction Project

Out Performers analysed the energy data for a company that had put in a refrigeration controls project a year ago but didn't have on-going monitoring. This is what we found.

Electricity use before and after refrigeration project installed

- 1** Electricity use falls after refrigeration project is implemented – saving energy as expected
- 2** Electricity use gradually creeps up over several months, up to previous pre-project levels, and then stays high. Why?
- 3** Sudden, sustained, jump in electricity use. The client is now using more electricity than they were before the project was installed! (We later discover this increase was due to the refrigeration control system being completely over-ridden.)



If this company had an Energy Management Centre installed, they would have been alerted as soon as the energy savings from the refrigeration project started to deteriorate. This would have saved them several months of unnecessarily high electricity bills, costing thousands of dollars.