



ENERGY OPTIMISATION CHALLENGE

Learn more about lowering electricity costs & freeing up stranded capacity in the data centre.

TAKE THE ENERGY OPTIMISATION CHALLENGE NOW

**ANSWER YES TO 2 OR MORE
OF THESE QUESTIONS &
YOU WILL QUALIFY FOR AN
INITIAL ON SITE ASSESSMENT
WITH ONE OF OUR ENERGY
OPTIMISATION CONSULTANTS**

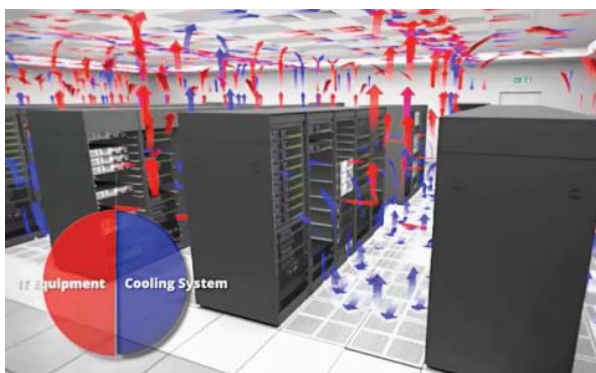
Would you like to?

- Reduce your monthly electricity bill?
- Secure a low risk, high return investment within your business?
- Introduce an ongoing cost avoidance strategy?
- Increase the capacity of existing equipment?
- Verify the reduction of kilowatt-hour (kWh) consumption?
- Extend operational life of existing equipment?
- Reduce ongoing maintenance costs?
- Receive government financial support?
- Have a ROI (return on investment) of typically under 36 months?
- Benchmark a reference point for ongoing energy consumption?
- Understand your current and potential NABERS rating as a data centre?
- For further information contact Peter at peter.simon@vertivco.com

ENERGY OPTIMISATION AND ANALYSIS SERVICES



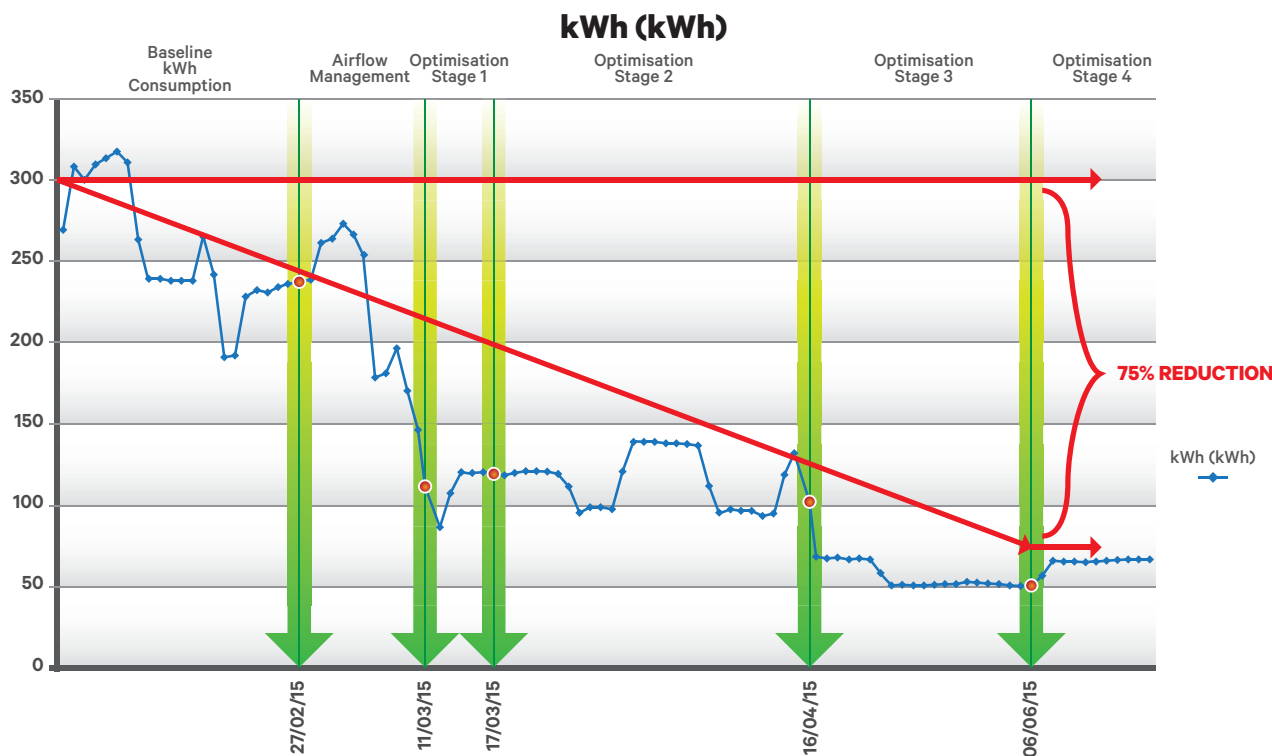
Vertiv is offering an *eCap™* energy optimisation service for data centres and computer rooms that provides verified kWh energy reductions. The service is compliant with the governments data centre NABERS* initiatives and qualifies for state and federal energy abatement programs.



BEFORE



AFTER



eCap™ delivered a 75% fall in kWh consumption
Results from a project completed in 2015 in the telecommunications industry

*National Australian Built Environment Rating System (NABERS) www.nabers.gov.au

MANAGE YOUR AIR FLOW

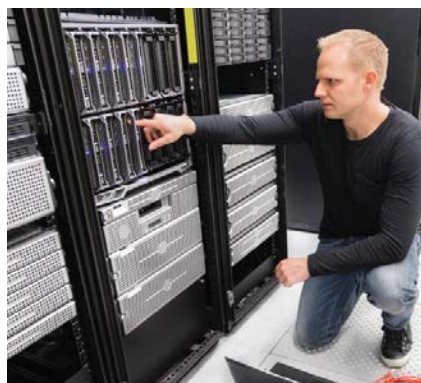
Imagine having the capability to optimise the cooling capacity and manage the airflow within your data centre or computer room while providing detailed power metering to prove the savings generated. *eCap™* is a low risk, economic & environmentally efficient solution for data centres or computer rooms and is made up of complementary retrofit-able equipment that enhances the day-to-day operational capacities while reducing ongoing operational costs.

BENEFITS

- Lowers ongoing electricity bills
- Frees up stranded capacity of existing equipment
- Verifies reduction of kWh consumption
- Extends operational life of existing equipment
- Reduces ongoing maintenance costs
- Yields a return on investment of typically under 36 months

COMPLIANCE

The energy metering is fully compliant with the NSW Government NABERS for data centres energy rating scheme and the Office of Environment and Heritage and qualifies for energy rebates through state and federal government approved processes.



WHAT'S THE OFFER?

Vertiv consultants will provide an initial on-site assessment requiring access to the data centre or computer room and will take non invasive key power usage details from the Uninterruptible Power Systems (UPS) and Computer Room Air Conditioning (CRAC) units supporting the IT load. After the initial on-site consultation, a detailed gap analysis report will be presented detailing current kWh consumption & highlighting the potential energy savings or stranded capacity as a business case for optimisation, including return on investment calculations.

THE PROCESS

- On site assessment and report presentation
- Deployment of energy metering and verification over a continuous 28-day period
- Deployment of a thermal management strategy
- Optimisation of cooling and airflow components
- Detailed reporting on energy usage and reduction throughout the process
- Generation of government rebates to financially support the implementation of the *eCap™* solution

PROVEN RESULTS

Multiple benchmarks have consistently delivered significant energy savings between 30% to 50% on cooling costs and reduced overall facilities power costs between 10% to 25%. See next page for proven results. Improving the efficiency and NABERS infrastructure rating from 1-2 stars up to the 4.5 stars with fully compliant energy metering and verification.



Condenser based cooling system | 4 data centre halls 350 racks of IT equipment

Brief: Energy optimisation.

The Global IT Provider achieved a reduction of 1.5MWhr per day resulting in a monthly saving of \$8,669 in electricity costs. The average PUE achieved across all 4 data centre halls fell from 1.65 to 1.44 (mechanical PUE) and reduced carbon emissions by over 500 tons per year. Over time the IT load has increased while the PUE has remained constant validating the eCap™ process along with the efficiencies achieved.

- Global IT Provider | St Leonards

Condenser based cooling system | Server Room 30 racks of IT equipment

Brief: Raise the NABERS office building rating from 3.5 star to 4.5 star by optimising the internal data centre.

The optimisation process allowed the office building rating to be increased to 4.5 stars while reducing the cooling system kWhr consumption by 40%, reducing maintenance costs and extending operational life of the equipment.

- Federal Government Department | ACT

Chilled water loop cooling system | 68 racks of IT equipment

Brief: Increase processing and storage capacity using existing cooling capacity

The eCap™ process reduced cooling system power usage by 75% in the data centre (white space). This reduction in cooling power was redirected to allow additional IT equipment to be deployed.

- Telecommunications Industry Small Data Centre | Sydney

Note: Potential savings realised are dependent on the existing infrastructure of the room and to the extent it can be optimised, including but not limited to air flow management techniques deployed, CRAC technology and associated control capabilities.

Reference details available on request.
Contact Peter.Simon@VertivCo.com or phone 0406 383 644 for an on-site assessment

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