ENERGY OPTIMIZATION CHALLENGE

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

TAKE THE ENERGY OPTIMIZATION 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 OPTIMIZATION 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?

VERTIV™

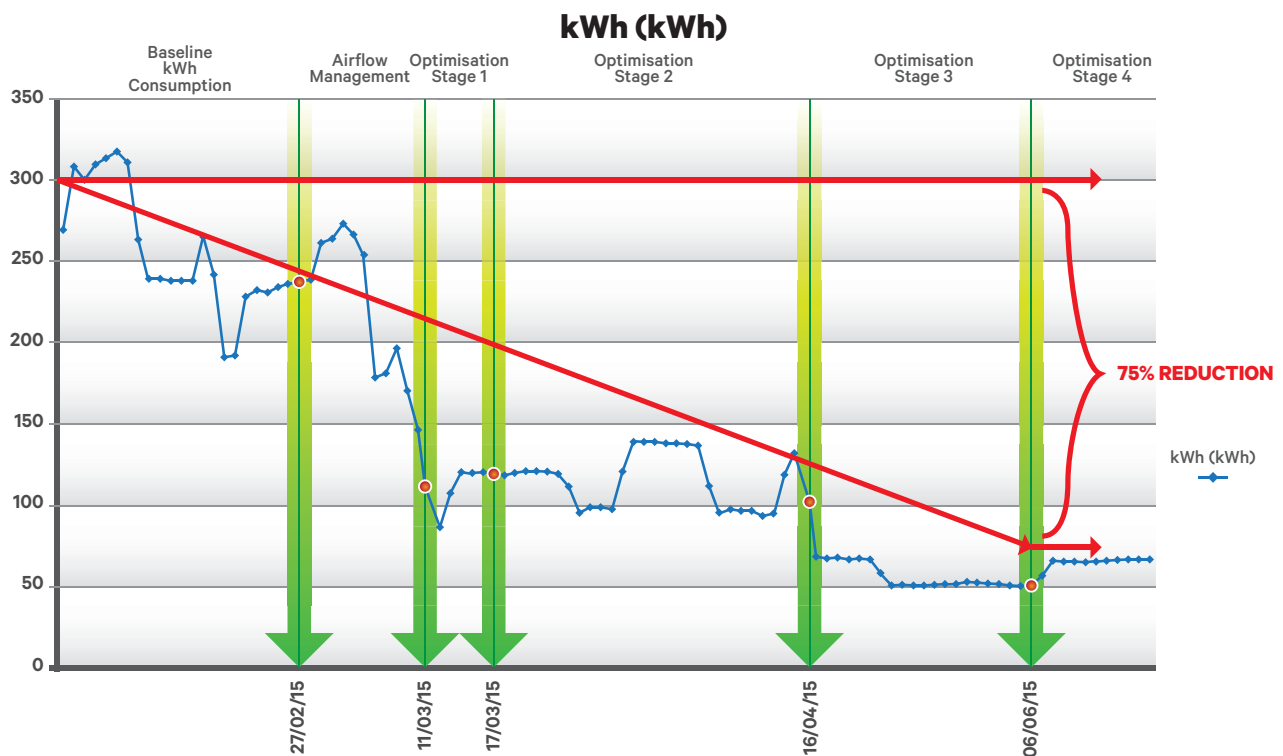# ENERGY OPTIMIZATION AND ANALYSIS SERVICES

Vertiv is offering a Vertiv Optimization Program service for data centres and computer rooms that provides verified kWh energy reductions.

BEFORE

AFTER

kWh (kWh)
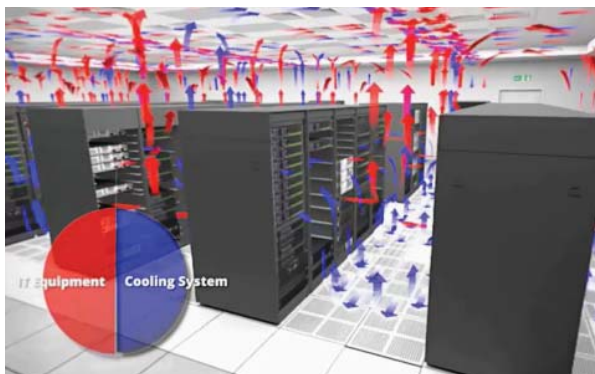
Vertiv Optimization Program delivered a 75% fall in kWh consumption
Results from a project completed in 2015 in the telecommunications industry

MANAGE YOUR AIR FLOW

Imagine having the capability to optimize the cooling capacity and manage the airflow within your data centre or computer room while providing detailed power metering to prove the savings generated. Vertiv Optimization Program 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

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 standard capacity as a business case for optimization, 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
- Optimization of cooling and airflow components
- Detailed reporting on energy usage and reduction throughout the process

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.

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

Brief: Energy optimization.

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 Vertiv Optimization Program process along with the efficiencies achieved.

- Global IT Provider | St Leonards

Chilled water loop cooling system | 68 racks of IT equipment

Brief: Increase processing and storage capacity using existing cooling capacity

The Vertiv Optimization Program 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.