

# 5G Networks optimise the country with energy upgrades



Wattly and Northmore Gordon worked closely with us over eight months to achieve funding from the VEU Program. They ensured the complex requirements of the program were met with full compliance and in accord with the satisfaction of the regulator; importantly this also maximised the certificate value on a VEEC volatile market.

- Michael Roberts, National DC Facilities Manager

## The Client

5G Networks is a licensed telecommunications carrier operating across Australia. Our mission is to be the partner of choice for unifying a seamless digital experience for our customers across data connectivity, cloud and data centre services, all underpinned by our expert managed services.

5G Networks owns and operates data centres in a number of locations including Sydney, North Sydney and Melbourne where they securely host customer servers and data.

## Key Facts

<b>Equipment Upgraded</b>	UPS, BMS, Aisle Partitioning
<b>Annual Savings</b>	Energy: 310 MWh, Carbon Abatement: 335 tCO <sub>2</sub> e OPEX: ~\$50,000
<b>Project Value</b>	CAPEX: ~\$300,000 Certificate Value: ~\$85,000, Payback: ~ 4 Years
<b>Program</b>	Victorian Energy Upgrades (VEU)
<b>Method</b>	Project Based Activities (PBA)
<b>Wattly Partner</b>	Northmore Gordon (Consulting)

## Our Role

Wattly worked through all the complexities of the Victorian Energy Upgrade Program to maximize the financial incentives. Wattly worked tirelessly to ensure all the regulators requirements and queries were satisfied. This included created the measurement & verification (M&V) plan, collected site data & supporting evidence, and built the baseline and operating energy models to calculate the energy savings. Wattly also provided us with price certainty to ensure the customer received the payment they had forecast.

## Challenges

- Competitive pressures to provide high quality service whilst minimising underlying costs
- Energy bills represent a substantial cost to data centre operators
- Aging equipment could impact reliability

## Additional Benefits

- Better equipment UPS reliability
- Better computer equipment operating conditions
- Faulty and inefficient auxillary equipment (pumps) identified during the measurement and verification approach

## The Project

To stay competitive in the market 5G Networks concluded that energy efficiency upgrades were required at their recently acquired Melbourne Data Centre. The upgrades included the installation of two new high efficiency Uninterrupted Power Supply (UPS), a new Building Management System (BMS), and temperature set point and chiller optimisation. In addition, a hot aisle / cold aisle approach was implemented to optimize airflow and cooling of the equipment.



Wattly is a leader in environmental certificate creation and trading. We have created the most certificates of all Accredited Persons under the Victorian Energy Upgrades program, an Accredited Certificate Provider in the NSW Energy Savings Scheme, and registered agent under the Federal Renewable Energy Target.

We've provided \$100m of financial incentives for energy efficiency and renewable energy projects at over 35,000 commercial, industrial and residential sites. This has saved our clients and partners gigawatt hours of energy, millions of dollars and reduced greenhouse gas emissions by over 5 million tonnes of CO<sub>2</sub>e.

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