

# Big box retail chain achieves easy savings through intelligent energy insights.

Total Utilities are helping a well-known New Zealand owned and operated retail chain identify and resolve energy wastage, resulting in significant savings and lower carbon emissions.



94 sensors installed



Reducing Energy Cost



Cutting carbon emissions



Driving sustainable growth



## Why they needed us — How we helped — The trial run

Due to their goals and commitment to sustainability, this leading brand required a smart and cost-effective solution to cut their energy waste and costs across their retail network.

Our energy insights solution, Panoramic Power measures energy use and pinpoints consumption on every piece of equipment. It also detects problems and potential failures before they occur.

We installed 94 energy sensors across several sites on critical systems, including heating, ventilation and air conditioning (HVAC) units, and store lighting. The sensor data was then collected and analysed in real-time on cloud-based software.

### The Results

By monitoring the equipment within each site for energy wastage and potential failures over the trial period, we identified:

- Out-of-hours usage: By closely monitoring their out-of-hours power consumption, any faults or wastage can be rectified. It was easy for managers to identify where improvements could be made which increased efficiency and decreased costs.
- One of four HVAC units at one site had failed despite the Programmable Logic Controller saying it was working correctly. Fixing this resulted in saving \$2,000 per year.
- Their HVAC was running at night when stores were closed. Rectifying this saved one store \$9,500 per year.
- Benchmarking the energy usage across sites highlighted further undetermined energy waste during closed hours that would potentially cut a further 18% from annual energy costs at one site and 5% at another site.

In total, we helped the client identify savings of 22% during the trial period. We also recommended several other actions to reduce waste even further. This clearly demonstrated that our energy management system could offer significant long-term savings and help them reach their sustainability goals.



### Working for a greener future, together

Our Energy Insights solution, Panoramic Power, allowed our client to determine exactly where energy is consumed at each site. With this information, they have made simple changes to reduce their carbon emissions by 1,536 tonnes-CO<sub>2</sub>e.

This is only the beginning. We will deliver a portfolio-wide Energy Insights project to benchmark sites and critical systems. By doing so, we can highlight further potential energy performance gains and keep track of real-world savings as measures are applied.



TOTAL UTILITIES is a  
Toitū carbonzero certified  
organisation in line with  
ISO 14064 1!

Follow our journey here  
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EXPLORATION IS WIRED INTO OUR BRAINS.  
IF WE CAN SEE THE HORIZON, WE WANT TO KNOW WHAT'S BEYOND.