AGED CARE CASE STUDY: ROOFTOP HVAC DEMAND RESPONSE / VPP

BlueCare

Operational since: September 2023

At a glance

An innovative solution for BlueCare creates a double win. Through the implementation of cutting-edge technology and partnership with an electricity generator, the site's energy demand has been reduced whilst delivering risk offset to the energy market, supporting the ongoing decarbonisation of the Queensland electricity grid.

Key learnings

The primary concern with operating the HVAC control pilot was maintaining internal thermal comfort for residents and staff. The DNA Energy system has successfully demonstrated that it can operate as a Demand Response tool without compromising site operations. A secondary benefit is lower peak demand, therefore less pressure on the energy grid.

Also..

The same DNA Energy system can be used to improve viability or Return on Investment for solar, battery and EV charging projects.

CONTACT

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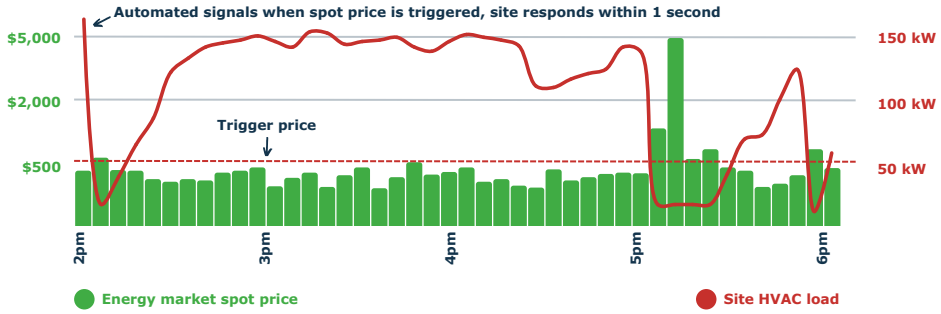
CHALLENGE

In the face of volatile and soaring energy costs, this not-for-profit was seeking an innovative solution to help them manage both the financial and environmental impacts of the site's electricity needs.

SOLUTION

A DNA Energy Demand Response system was installed at BlueCare Redcliffe Aged Care Facility, in parallel with a 'Virtual Power Plant' (VPP) through Hydro Tasmania. Immediate results were seen in downward pressure on site energy demand and energy market pricing.



BENEFITS

1

Making a difference

At scale, projects like this improve network stability, which is a critical factor in enabling more solar and batteries to be safely added to the grid.

2

High value returns for the planet

The $28K DNA Energy system will pay back in under two years, making it a valuable tool for companies seeking quick financial returns that boost the business case of energy efficiency projects.

3

Independent Network

The system operates on DNA Energy's proprietary wireless network, meaning no cyber concerns or reliance on site comms.