AGED CARE CASE STUDY: CONSTRAINED SUPPLY MANAGEMENT

Operational since: March 2022

At a glance

Arcare's Seven Hills site had been impacted by loss of electricity service, caused by insufficient grid supply. The DNA Energy system provided a quick, low cost alternative to an electricity infrastructure upgrade, as well as delivering lower ongoing energy costs.

Key learnings

Issues around constrained supply sites, whether caused at the site or network level, will increase as the energy transition gathers pace. Having the ability to utilise existing loads to manage these constraints not only offers energy security, but also significant reductions in operational cost and disruption, as the DNA Energy system is non invasive and lowers energy bills on an ongoing basis.

Also..

The same DNA Energy system can be used to lower customer demand charges and provide network support for distribution network operators.

CONTACT

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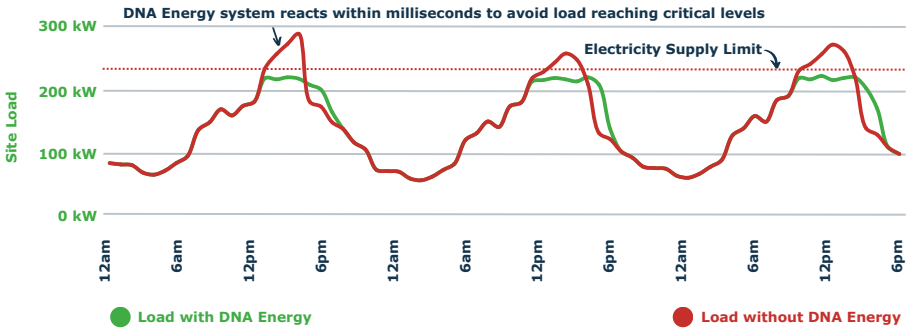
CHALLENGE

The energy grid in the area suffers from blackouts, with the energy network operator not upgrading for many years. To maintain it's high quality customer service, solutions like a diesel generator or battery were unsustainable and expensive options for Arcare.

SOLUTION

A DNA Energy wireless mesh control system was installed at site, providing metering and controls across the electrical and HVAC systems. Since the the system was installed in March 2022, the DNA Energy system has avoided blackouts on several occasions.



BENEFITS

1

No loss of power to the site

The most critical benefit is that the site has been able to operate as normal without the worry that they may lose power at any time.

2

Low cost, immediate results

Compared to an electricity upgrade, the $34k system means the customer is around $200k cash positive, as well as having lower demand charges.

3

Certainty and timing

Because the DNA Energy solution is provided behind the meter, no lengthy network connection is required. The system was installed and commissioned within a week.