

SMART STORIES

Complete Renewable Energy Solution Provides
Rural Harmony to Victorian Family



A COMPLETE PACKAGE FOR CLEAN ENERGY INDEPENDENCE

Located on eight hectares of land in rural Victoria, the Brierty's found a total energy solution to their frequent black outs and rising electricity costs.

THE PROBLEM

Ross and Kath have been in the home for 10 years and have no plans to move in the foreseeable future. Sustainably minded and environmentally aware, the family had been interested in looking for an alternative source of energy for years due to

Due to trees regularly falling across local power lines, the Brierty's were getting used to increasing electricity cuts to their home. Unable to utilise his household appliances, Ross Brierty knew he had to source additional power opportunities.

"The power goes out, every 2-3 months – and that was the final push I needed to begin seriously researching our options for a new power solution," Ross explained.

"I knew there had to be a better way, but I wasn't sure if the technology was there yet with solar and batteries, or how complicated or costly it would be to implement."

been interested in installing solar panels for many years. but weren't sure "if the technology was there yet with solar and batteries, or how complicated or costly it would be to implement".

THE SOLUTION

With quality, affordability and simplicity top of mind, Ross called Diamond Energy, their electricity retailer who specialises in innovative, renewable solutions, to discuss energy generation and storage options.

Diamond Energy proposed Ross and his family take advantage of their new innovative Home Shield® product which, as an official partner of Q CELLS, allowed for the Briertys to install a complete renewable energy voltage control package under one seamless program.

Ross explained: "We put a lot of trust in Diamond Energy because of how they've handled our electricity needs over the last five years. When they suggested Q CELLS newest all-in-one solar PV and energy storage system, and we did some further research, it seemed like they truly found us the best in the market.



QUALITY PRODUCTS, FREEDOM FROM BLACKOUTS

The Brierty's selected a package that would allow the ultimate renewable energy independence with Q CELLS high-quality products:

- Installation of premium quality, Q CELLS Q.PEAK DUO-G5 solar panels
- Australia's first fully-wrapped hybrid inverter and battery system, Q.HOME*ESS HYB-G2, to store excess solar generation - able to provide backup functionality (~12 hours)
- A scalable design allowing for up to 6 kW PV with up to 12 kWh of storage
- Voltage control and lightning protection from the Edge IQ controllers
- Onsite generation that can meet more than 50% of consumption

"It was great that all of our vita power-uses are able to be supported by the battery. Not only does it only take up about as much space as a wall heater, but we have plenty of room to expand our battery capacity when we want to," commented Ross.

Thanks to its durable, IP-65 rating, Q.HOME's sturdy and aesthetically pleasing construction made it ready for installation indoors or outdoors. The inverter and battery units were able to be installed in a detached shed on the property with the solar panels installed on the roof.

SYSTEM HIGHLIGHTS

- Home energy demand reduced by 71.1% thanks to Q CELLS PV panels paired with Q.HOME.
- Early indicators show that the Q.PEAK DUO-G5 is totalling PV production of 23.95 kWh per day.
- 35.75% of total PV production was utilised by the property, either used by load or stored. The rest (16.29 kWh) was exported to grid.
- The home only needs to import an average of 3.27 kWh from the grid per day.

"THIS COULD BE THE FUTURE"

Q CELLS technical support team was on hand to help troubleshoot with the installer an issue with the switchboard in the early days of the installation - highlighting Q CELLS' agility in dealing with technical issues.

"This could very well be the future of solar – great technology, great results, all products under one warranty and one point of call to help," said Ross.

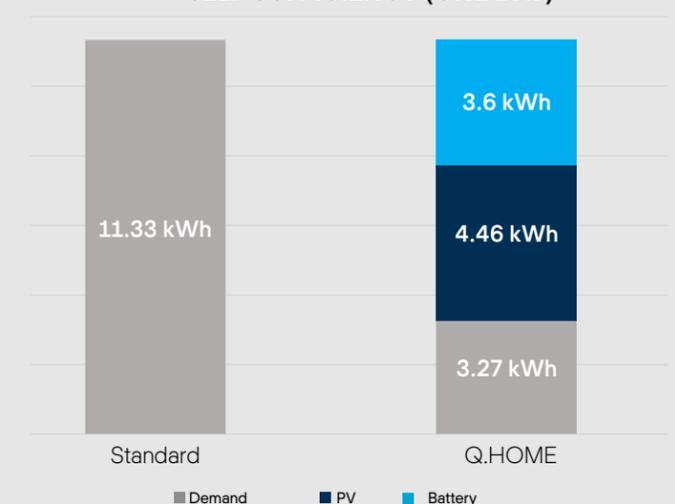
"Having everything all under one supplier is really important."

SYSTEM PERFORMANCE

SYSTEM SIZE	6.5 kW PV /4 kWh storage
MODULE	Q.PEAK DUO-G5 325 Wp
ESS	Q.HOME*ESS HYB-G2
REDUCTION ON GRID ¹	71.1%
BATTERY CONTRIBUTION ²	44.65%

1. Ratio of energy supplied by the system to house loads
2. Ratio of battery discharge amount to self-consumption

SELF SUFFICIENCY (ONE DAY)



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