



**VORTEX**  
ELECTRICAL

**Queenscliffe  
Community Solar  
Program 2023**



**QCAN**  
QUEENSLIFFE CLIMATE ACTION NOW

## Queenscliffe Community Solar Program 2023

### Helping 3225 homeowners and businesses to make the switch to clean, affordable energy

The Queenscliffe Community Solar Program is an initiative of Queenscliffe Climate Action Now (QCAN), supported by the Borough of Queenscliffe Council, in partnership with Vortex Electrical.

The program aims to help residents, businesses and community organisations to overcome barriers of confusion, cost and trust in installers, to encourage a major uptake in renewable energy technology across our community.

By leveraging the buying power of our community and working with a carefully selected delivery partner we can make the installation of quality solar, battery and heat pump hot water systems easy and affordable.

The overarching aim of the program is to accelerate the adoption of renewable energy and electrification in our Borough and surrounding areas in order to meet the renewable energy targets adopted in our community-led Climate Emergency Response Plan.

Through this program you'll get high quality products with leading warranties in a system specifically designed and installed for you by a reliable and trusted local solar retailer, Vortex Electrical.

Excitingly, for every solar and/or battery system installed as part of this program, Vortex will make a cash and solar panel donation back to the community which will be used to install renewable energy systems on community buildings throughout the Borough.

Vortex Electrical were chosen as the delivery partner for this program following an extensive EOI and due diligence process undertaken by QCAN with the help of an independent solar industry consultant. They were chosen for their expertise and experience, commitment to personal on-site service and the offering of top-quality systems at competitive pricing.

The program is open to all homeowners, businesses and community organisations in 3225 and surrounding areas.

### About QCAN

Queenscliffe Climate Action Now (QCAN) comprises residents and business owners from Point Lonsdale and Queenscliff in the Borough of Queenscliffe. We are a volunteer-based, incorporated group working in partnership with the Borough of Queenscliffe to implement our Climate Emergency Response Plan which was adopted by Councillors in May 2021.

**Vortex Electrical is based in Belmont and have been servicing the wider Geelong community since Simon Hansen created the business in 2009.**

### **What you need to know about Vortex:**

- Vortex is a small and mighty growing team of Geelong locals, passionate about the renewables industry and is a Clean Energy Council (CEC) Approved Solar Retailer.
- Sophie, Vortex's CEC Accredited Designer (for both grid connect PV and batteries) will work with you to design the best tailored solution for YOUR home based on YOUR usage, YOUR needs and YOUR budget. Aside from solar, batteries and hot water heat pumps, Vortex can also install: Heating and cooling: wall hung split systems or ducted split systems, Induction cooktops and EV chargers.
- Vortex will guide you through your rebate eligibility and their admin superstar Maddy can even sit with you to complete everything online. Vortex takes care of all the boring paperwork.
- Vortex uses quality components that they trust – they only install components that they would install on their own homes.
- Vortex will make sure you understand your system so that you can get the most out of it once your system has been installed and commissioned – so you learn live! Consumption monitoring is designed into all their systems as standard.

### **What else you get:**

- 10 year workmanship warranty.
- A one on one after sales guidance on system monitoring and making the most of a solar system.
- A personal electricity plan check in 6 months following install.
- Vortex is offering a free panel clean and system audit for all program participants to be conducted 2 years after installation.
- **Vortex Electrical is donating back to the community – Vortex will make a cash and solar panel donation with every eligible system installed!**
- Vortex would also like to take the opportunity to trial and employ a local apprentice.
- Additional discounts for adding on extras
  - Hot water heat pump = \$200 discount.
  - Split system unit = \$200 discount per unit.
  - EV Charger - \$100 discount per unit.

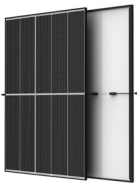


These are indicative examples only. Vortex will design a personally tailored solution and system components that meet YOUR needs and YOUR house, YOUR electricity usage profile and YOUR energy future.

6.6kW System	Example 1	Example 2	Example 3
Panels	Trina	Winaico	REC Alpha
Inverter	SunGrow	Fronius	Enphase
Price	<b>\$7,670</b>	<b>\$9,229</b>	<b>\$14,239</b>

\* No Solar Vic rebates have been applied and all systems include consumption monitoring

### Example 1 - Trina Vertex S+NEG9.28



**6.640kW** of Solar Power  
**16 x TSM-415NEG9.228**  
**Trina VertexS+ 415** Watt panels  
**25 Year** Product Warranty & **30 Year**  
 Linear Performance Warranty  
**8,753kWh** per year

### SunGrow Double-MPPT String Inverter



Single Phase **5.000kW** Inverter  
**SunGrow Power Supply Co., Ltd. 1 x**  
**SG5.0RS**  
**10 Years** Product Warranty

### Example 2 - WST-410MGX-P3



**6.560 kW** of Solar Power  
**16 x WST-410MGX-P3 - 410** Watt panels  
**25 Year** Product Warranty  
**25 Year 85.28%** Performance Warranty  
 Module efficiency of 20.95%  
 Local direct support since 2012  
**2 Years** Complimentary 3 in 1 System  
 Insurance  
**8,277 kWh** per year

### Fronius Primo GEN24



**Fronius Australia Pty Ltd**  
**5.000 kW** of Total Inverter Power  
**1 x Primo GEN24 5.0**  
**Warranty** coverage of up to **5 plus 5**  
**years** for registered products

### Example 3 - REC Alpha Pure-R Series



**6.560 kW** of Solar Power  
**16 x REC410AA Pure-R - 410** Watt  
 panels  
**20 Year** Product Warranty\*  
**25 Year** Performance Warranty  
**8,476 kWh**

### Enphase IQ7X Microinverter



**16 x 0.315 kW**  
**5.040kW** of Inverter Power  
**Enphase Energy Inc. 16 x IQ7X-96-2-**  
**INT**  
**10.0 year** Warranty

#### Assumptions

- Indicative pricing including GST & STC discount.
  - Export limitation not required.
- No additional switchboard work required.
  - Simple back to back install.
- Single storey tin roof install, one array.
- Component pricing may fluctuate.



	Example 1	Example 2	Example 3
<b>Add a Battery</b>	Sungrow 12.8kWh	BYD 11kWh	Tesla Powerwall
<b>Price</b>	<b>\$19,383</b>	<b>\$23,101</b>	<b>\$31,592</b>

\* No Solar Vic rebates have been applied

### Example 1 - SunGrow Lithium Battery



**1 x SBR128**  
**12.8kWh** of Storage  
**Modular** Storage System  
**High Voltage** LFP Battery  
**100%** Usable Energy

### Example 2 - BYD Premium HVM



**1 x HVM 11.0**  
**11.04kWh** of Storage  
**10 Year** Performance Warranty

### Example 3 - Tesla Powerwall



*On a typical day, Powerwall and solar will meet most of your home energy needs.*  
**13.5kWh** of Battery Storage  
**1 x Tesla Powerwall**  
*Continuous power during an outage*



**Tesla Powerwall retrofitted to existing system from \$19,000, before Solar Vic rebate.**

### Add Hot Water Heat Pump:



**Reclaim 315L Glass**  
From \$6,500

*Other rebates may apply*



**iStore 270L**  
From \$4,795

*Other rebates may apply*

#### Assumptions

- No additional switchboard work required.
  - Simple back to back install.
  - Component pricing may fluctuate.
- Replacement hot water systems in same location on existing slab.



# SOLAR VIC REBATE

**Landlord**



You may be eligible for up 2 x \$1400 rebates.

**Business Owner**



You may be eligible for \$3500 rebate + \$5k no interest loan.

**Homeowner**



Does your rates notice value your home less than 3 million?

**Yes**

**No**

Is the total taxable income of all owners on the rates notice less than 180k?

**STCs only apply**

**Yes**

**No**

Do you have an existing system?

**STCs only apply**

**Yes**

**No**

You could be eligible for a \$2950 battery rebate.

**OR,**

A \$1000 hot water rebate.

You could be eligible for \$1400 rebate for PV + \$1400 no interest loan (optional) + \$1000 hot water rebate.

**OR,**

A \$2950 battery rebate.



# VORTEX

## ELECTRICAL



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