

Community Owned Renewable Energy

November 2019



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3. CPH projects and future
4. CEDA
5. CORE – Community Owned Renewable Energy
Team / Funding Strategies / Toolkit
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Bendigo Sustainability Group

- NFP incorporated community group
- Founded in 2007
- 2016 Winner Premiers Sustainability Regional Achievement Award
- BSG long history in solar PV
 - Residential bulk buys
 - 650+ systems (2 MW)
 - Involvement with 300kW solar farm
 - 6 x Community owned systems



CORE Community Owned Renewable Energy

- BSG Solar behind the meter projects

– 2015 Bendigo Library	20 kW	\$25K	crowd funded	BSG owned
– 2016 Discovery Centre	11 kW	\$25K	crowd funded	
– 2017 Bendigo Tramways	50 kW	\$50K	CFCV funded	
– 2017 Bendigo Archives	30 kW	\$30K	BSG funded	BSG owned
– 2018 Eaglehawk Stadium	30 kW	\$30K	crowd funded	BSG owned
– 2018 8 x social housing units	30 kW	\$30k	crowd funded	BSG owned

Total 6 x solar PV systems 171 kW



Community Power Hubs

- State Government Funding
 - Sustainability Victoria
- Three locations nominated:
 - Ballarat
 - **Bendigo**
 - Latrobe Valley
- Two year program until June 2019
- Promote and activate Community Owned Renewable Energy for community benefit



CPH Bendigo - Projects

- Rooftop Solar (individual sites <100 kW)
- Rooftop Solar (individual sites >100 kW)
- Solar for Social Housing
- Small Solar Farm (2 MW)
- EV Charging Stations



CPHB Rooftop Solar (individual sites <100 kW)



Eaglehawk Stadium
30kW \$30K



CHVL - 8 Social Housing Units
30kW \$30K



Funding - Donation Projects

Eaglehawk Badminton & Table Tennis Stadium



Fundraising Status	Progress	107%
Total \$ raised	Total Panels funded	No of donors
\$ 32,300 of \$ 30,000	107 of 100	52

FULLY FUNDED - THANKYOU



Community Housing Limited - Gold

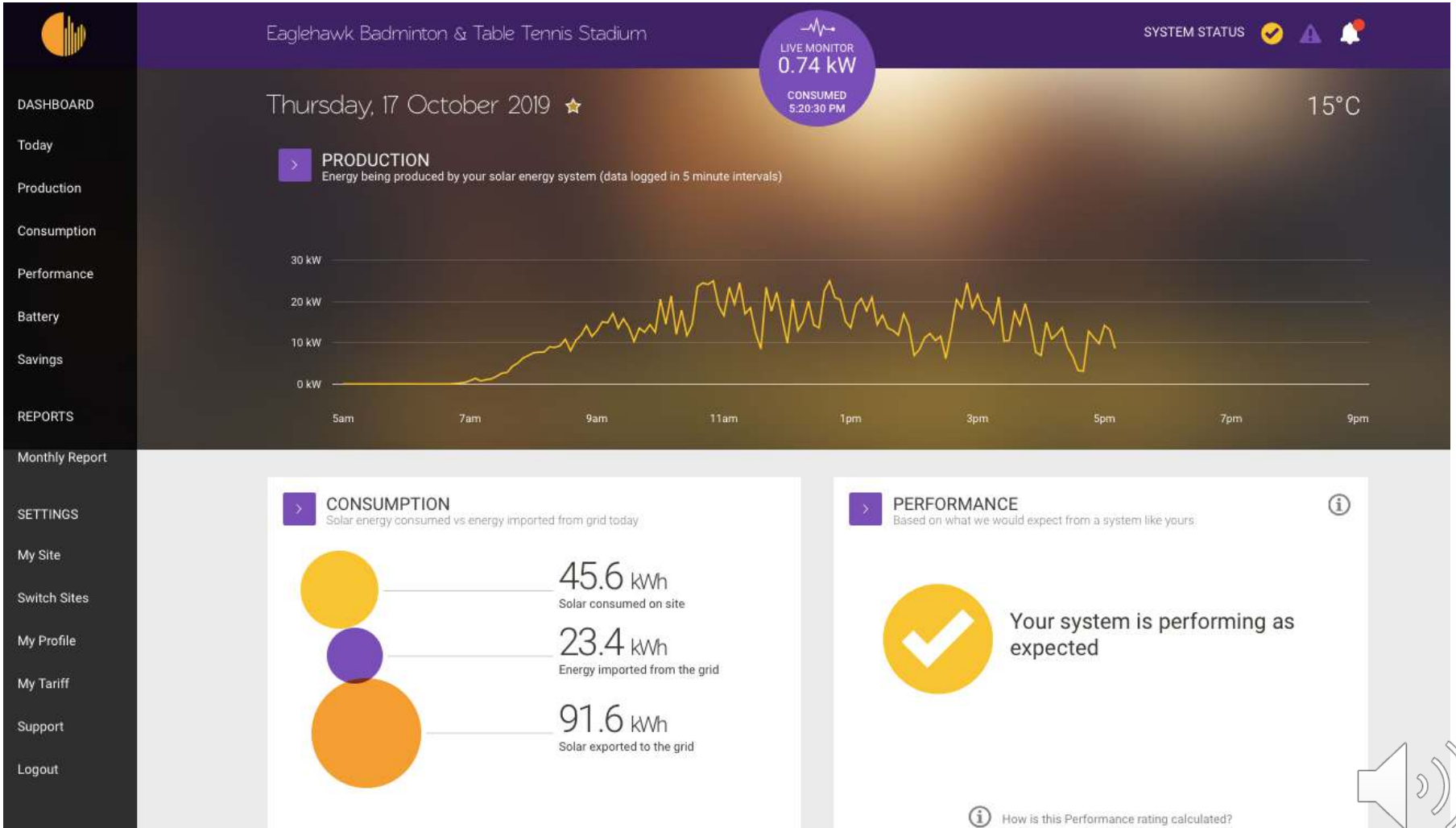


Fundraising Status	Total \$ raised	\$ 30,277 of \$ 30,000
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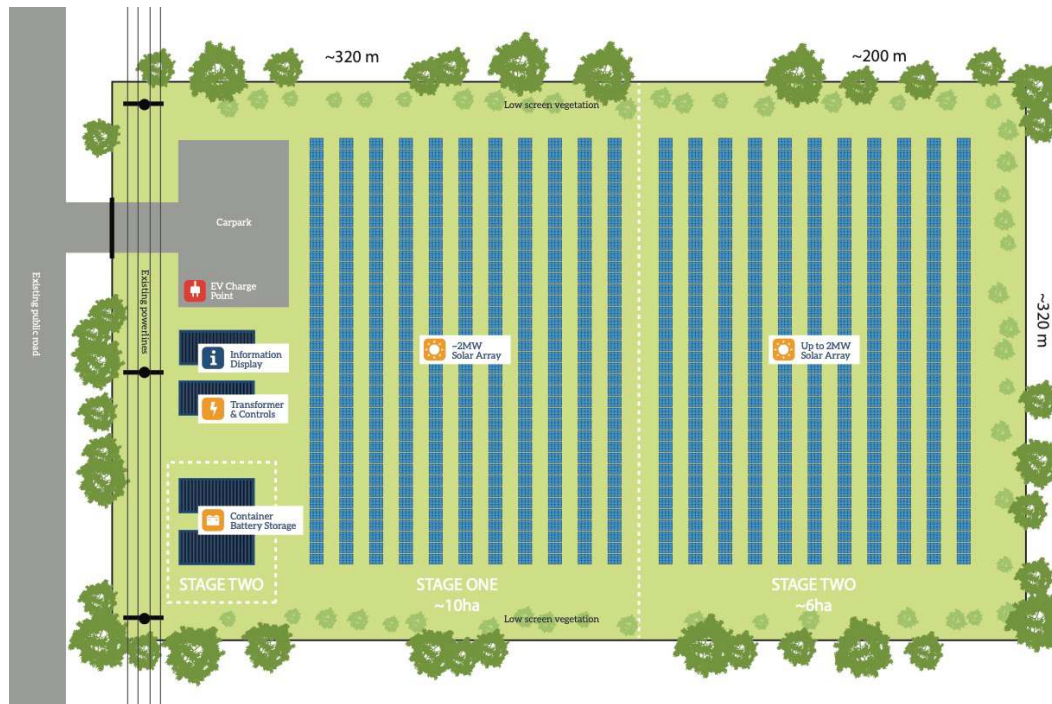






Community Medium Scale Solar Farm

- 2.0 MWp DC
- Approx \$4+ million funding required



The Sweet spot !!

< 5 MW

> 5 MW

Non-Registered Generator

Registered Generator

Low Voltage

High Voltage

up to **2** MW

> 50MW

Community Solar Farm

Less / unviable Solar Farm scale ??

Commercial Scale Solar Farm

Additional PV & Battery Storage

The Sweet Spot

2 MWp / 1.5 MW AC - Low voltage

Direct to 22 kVA Distribution network

Quick, affordable connection and replicable





The aims of the Community Energy Development & Administration Group (CEDA Group) is to assist and facilitate the development of community owned and operated renewable energy projects.

The group will utilise local contractors and keeping income generated within the local communities.

CEDA Group will assist local communities with the transition to a clean energy future, reducing greenhouse emissions and helping to adapt to our future changing climate.



Funding - Investment Model Special Purpose Vehicle

- Developing investment model for community owned energy
- Up to 20 investors per project
- 10 year term
- Invest in a Unit Trust
 - Get money back over the term
 - Get interest on investment
- Intent is to develop multiple / many local projects



1. Research and pre development
 - Nearmap satellite
 - Renew and Frontier Financial modeling
2. Define Project & Budget
 - Define project brief
 - Seek Expression of interest from installers
 - Budget (donation, Special Purpose Vehicle etc)
 - Tender and selection
3. Fundraising and engagement
4. Commission Installation
5. Project Manage the install
6. Monitor and billing - Solar Analytics
7. End of Life ?



Links

www.communitypowerhub.com.au

www.communitysolar.org.au

www.C4CE.net.au

www.bsg.org.au

Good luck with your journey !
May the force be with you

