



Renewable Energy Conference

Bendigo

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the zero net emissions company

The consortium

- Bendigo Bank
- Central Victorian Greenhouse Alliance (CVGA)
- Origin Energy
- Powercor

with support from key third parties.....

- Sustainability Victoria
- University of Ballarat

www.greenhouse.gov.au/solarcities

- *\$75M federal initiative*
- *Four sites in addition to Central Victoria*
- *Adelaide, Alice Springs, Townsville and Bankstown*

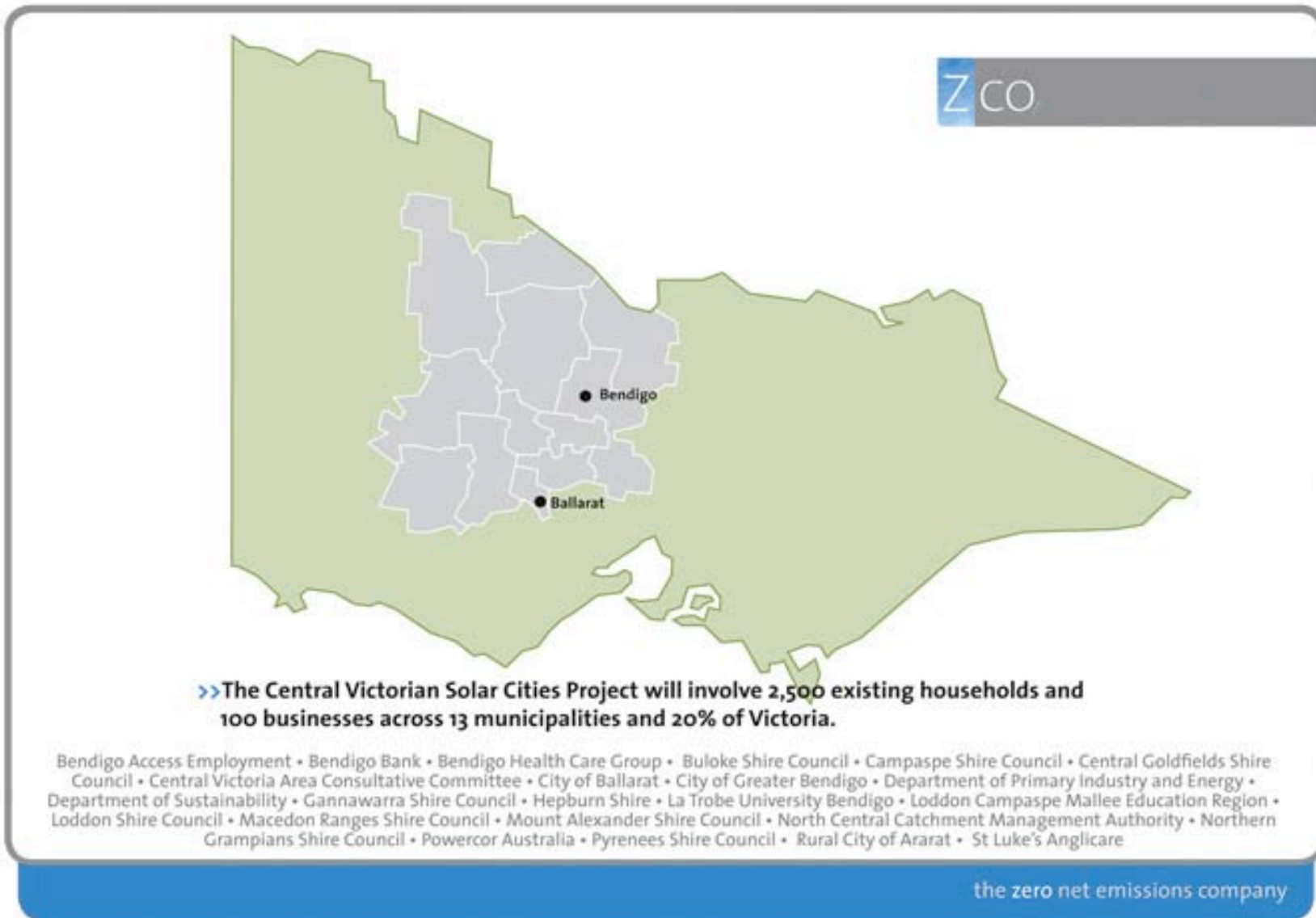
CVGA goal is to reduce the region's emissions by 30 per cent by 2010, reducing still further to zero net emissions by 2020



Membership of CVGA has grown and now includes 13 council and 9 organisations representing around 20 per cent of the state:

Bendigo Access Employment • Bendigo Bank • Bendigo Health Care Group • Buloke Shire Council • Campaspe Shire Council • Central Goldfields Shire Council • City of Ballarat • City of Greater Bendigo • Department of Primary Industries • Gannawarra Shire Council • Hepburn Shire Council • La Trobe University • Loddon Shire Council • Loddon Campaspe Mallee Education Region • Macedon Ranges Shire Council • Mount Alexander Shire Council • North Central Catchment Management Authority • Northern Grampians Shire Council • Origin Energy • Pyrenees Shire Council • Rural City of Ararat • St Luke's Anglicare

4.1 Location of Solar City Trial Site



.....“interventions” include:-

- ♣Energy efficiency services*
- ♣Retrofit of existing housing stock*
- ♣Demand Management measures*
- ♣Solar Hot Water*
- ♣PV (household & concentrated)*

What is in it for participants?

- Participate in a body of learning
- Participate in new products?
- Access to a better range of services?
- Better pricing?
- Ability to have a greater say in future Community initiatives and projects?
- Control of own destiny?

.....now the business case itself

- **Business Proposition... not a grants program!**
- **Tests some fundamental engagement propositions with customers**
- **Pushes the boundaries in creating collective investment in renewable energy generation capacity**

Participants engaged in a range of initiatives.....

- Energy Efficiency through education & audit... & retrofit of existing housing stock
- Cost Reflective Pricing... time of use, critical peak pricing
- Demand Management is work in progress
- Adoption of renewable energy generation capacity (SHW & PV)... in innovative ways

Energy Efficiency



- Trial of energy education, audit and monitoring over seven years through 500 trials
- Sign on bonus of \$#
- The “Service” costs \$#, payable through deduction from retail account
- Performance bonus of \$#

Retrofit



- Retrofit of existing housing stock not new stock
- Retrofit assessment for 500 sites
- Looking at shading, insulation, drapes etc
- Rebate of 25% of approved expenditure of \$2,000

Demand Management



- Time of Use tariffs, Critical Peak Pricing at 700 sites
- Sign on bonus of \$#
- Performance bonus of \$#
- Many will have “dashboard in the house”
- Looking also at “Direct Load Control”

Solar Hot Water



- Embedded energy generation in 200 sites
- Bonus for sign on of #% of cost of installation
- Access to green finance
- Federal programs mean that our business case is being renegotiated

Household PV



- 100 household installations in isolation
- Trial of a feedin tariff operating in conjunction with “green loans”
- Interesting policy simulation

PV in the Park



- concentrated installations, each park = 150 households
- Trial of a feedin tariff, capital allowances and “generation green loans”
- Participants “rent” a panel for the trial
- Participants have the opportunity to buy a share in the company that owns the Park at the end of the trial

- **250 households in Bendigo and Ballarat trialing a full suite of Solar Cities initiatives**
- **3250 participants possible including control groups**
- **Meet the monitoring and reporting requirements through isolated trials**

The PV Park concept and its link to fostering adoption of PV.....

- **PV Park is the most challenging technical and investment proposition**
- **Bridges the gap between traditional and renewable**
- **Sets up a framework...a model worth exploring**

Exploring the relationships between:-

- **Feedin tariffs and quotas for acquisition of renewables**
- **Contributions the tax system could make**
- **carbon pricing**
- **cheaper finance**
- **Community acquisition of energy generation**

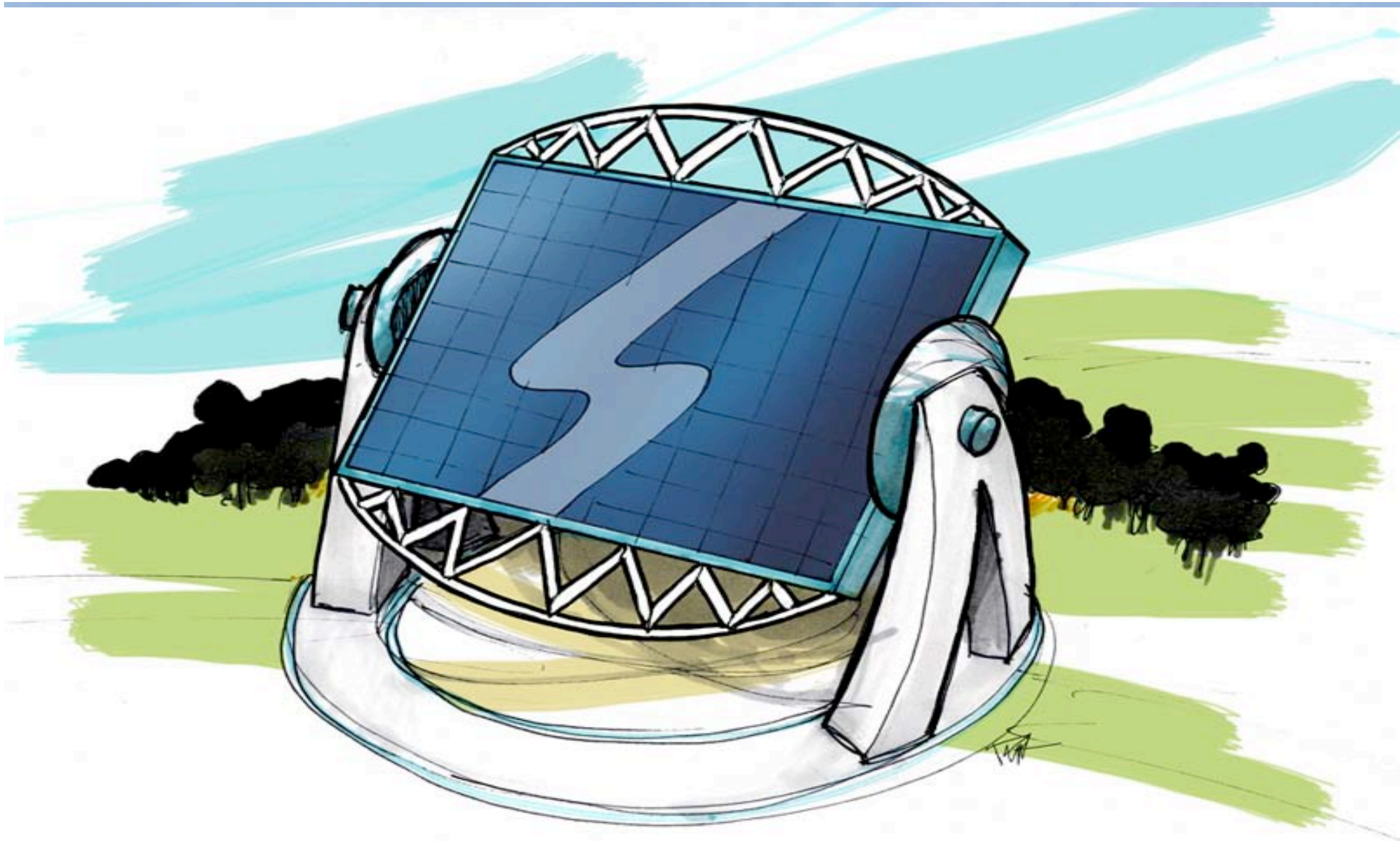
- θ **Scalable**
- θ **Sustainable**
- θ **Replicable**
- θ **Transplantable**

.....the vision of turning the industry full circle.....distributed generation and local empowerment can work

- ***Currently in funding negotiation stage with the Federal Government...and....***

- ***Keen not to deter potential participants***

- ***Register interest through the CVGA website***
www.cvga.org.au



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