Victor Harbour
Regional Councils as Energy Producers?
June, 2011

- Economic Opportunity yielding
- Climate Change Results
About us

• 15,000 people
• 600 farms
• 850 businesses
What we did

- Initiated a PVP retrofit program – Towong
- Looked at Blakers model
- Public Consultation
- Briefed adjacent councils
- Let tender
- ZEN won it - $1995 for 1.5kWh installed
- ZEN Coordinated retrofitting on all houses
What we got

- 2100 Fleurieu ratepayers invest $2,500 for each to have solar rooftops systems installed
- 1,000 more in adjacent councils
- $8m in Federal Government solar rebates
- ZEN installs $20,000 local office - 3 - now 6 jobs
- 24 local electricians contracted for installs
- Ratepayer p/a power savings estimated at $450,000
- $80,000 raised via rego fees
- $30,000 ZEN/Adelaide Uni/Vic Harbor partnership for renewables research proof of concept (hybrid)
- New micro wind manufacturing facility
- ETSA got $700,000 for new meters
- C-PREP saves approx. 2,584 Tonnes of CO2 p/a
Take up

Ratepayer power savings estimated at $250,000 p/a
PV/PPs now save approximately 1,534 tonnes of CO2 p.a.
Demand on coal fired plant - lessened
Solar/wind
Local Examples
Opportunities

Develop businesses by retrofitting existing houses and buildings - leverage initial success into:

- Ongoing program employment
- Reduce energy bills
- Initiate new industries
- Avoid penalties
- Attract funding
- Lower our carbon footprint
Possible industries

Design
Engineering
Local manufacture
Parts
Small biz
Electronics
Software
We see...

- Public lighting
- Poles
- Generators
- Parts
- Batteries
- Power plants
- Software Dvpt.
- Sensors
- Electronics
- Smart grids
Street lights

City of Victor Harbor

Solar Panel Hybrid Power System
Integration of Visual Art Components

Project Scope

Panels or sculptures can be mounted within the supporting poles of the solar panel hybrid power system.

The poles provide an ecological and sustainable power solution, with this in mind the artwork proposed is a reflection and appreciation of the natural environment around the Victor Harbor area.

Each of the poles will have an original design featuring local flora and fauna, not only providing visual and artistic benefits to the location, but also an educational "walking trail" along the main street - encouraging viewers to walk the entire length while also enjoying the main street vicinity.

Little Blue Penguins, Southern Right Whales and Little Pied Cormorants (concept pictured) are a few examples of the many spectacular wildlife inhabitants of our region. Each of the panels will require a substantial amount of research which may be done in conjunction with the community including local schools and community groups.

Project Specifications

Each of the completed designs will be etched on to a metal panel (with a computer engraving system supplied by a third party) and secured to the supporting poles with metal braces. This structure will provide weather resistance, deter vandalism and ensure longevity of the works.
Our Main Street

City of Victor Harbor
Solar Panel Hybrid Power System
Main Street - North facing aspect
3-year research project July 2008 to June 2011 inc.
University of Technology, Sydney, University of Queensland, and UniSA, Queensland University of Technology and Curtin University.

$3.4 million in funding from CSIRO and a further $6.1 million from collaborating institutions.
Storage – First smart grid

Ausgrid – Newcastle - $100m
Redflow Units are scheduled for delivery to Newcastle in Q3 2011
The big opportunity – Jan 2011

Our very own power company!!!

Blaker’s retrofit model suggests retrofitting 100,000 homes yields 800 jobs & drives $80,000,000 p/a

Daylesford Vic. Hepburn Wind Co op - 2,300 homes own two wind turbines
DE Power Companies and smart grids