

# Renewable Energy & Climate Change

An Economic Opportunity  
with  
Climate Change Results



# LGA Climate Change Summit Jun-08

- New regulations at state and national levels will impact councils
- Emission management plan
- Climate change Policy
- Economic impacts
- It is up to us - you



# Research renewables

- Dr Andrew Blakers 2002 paper (ANU)
  - Retrofitting the quickest way
  - Immediately at hand solar and wind
  - Towong Shire had done something
  - Happily they shared it
- 
- SASP-Objective 3.7 - 30% reduction by 2050

# The only way

“Mass retrofitting of buildings is the only way in which rapid reductions in greenhouse gas emissions can be achieved in the building sector.”

Dr Andrew Blakers – ANU – 2002

- Retrofit debt belongs to the house
- Quarterly bills as normal power company
- Lessen demand on traditional energy companies

Are we in time – State

One line in

Ever increasing costs

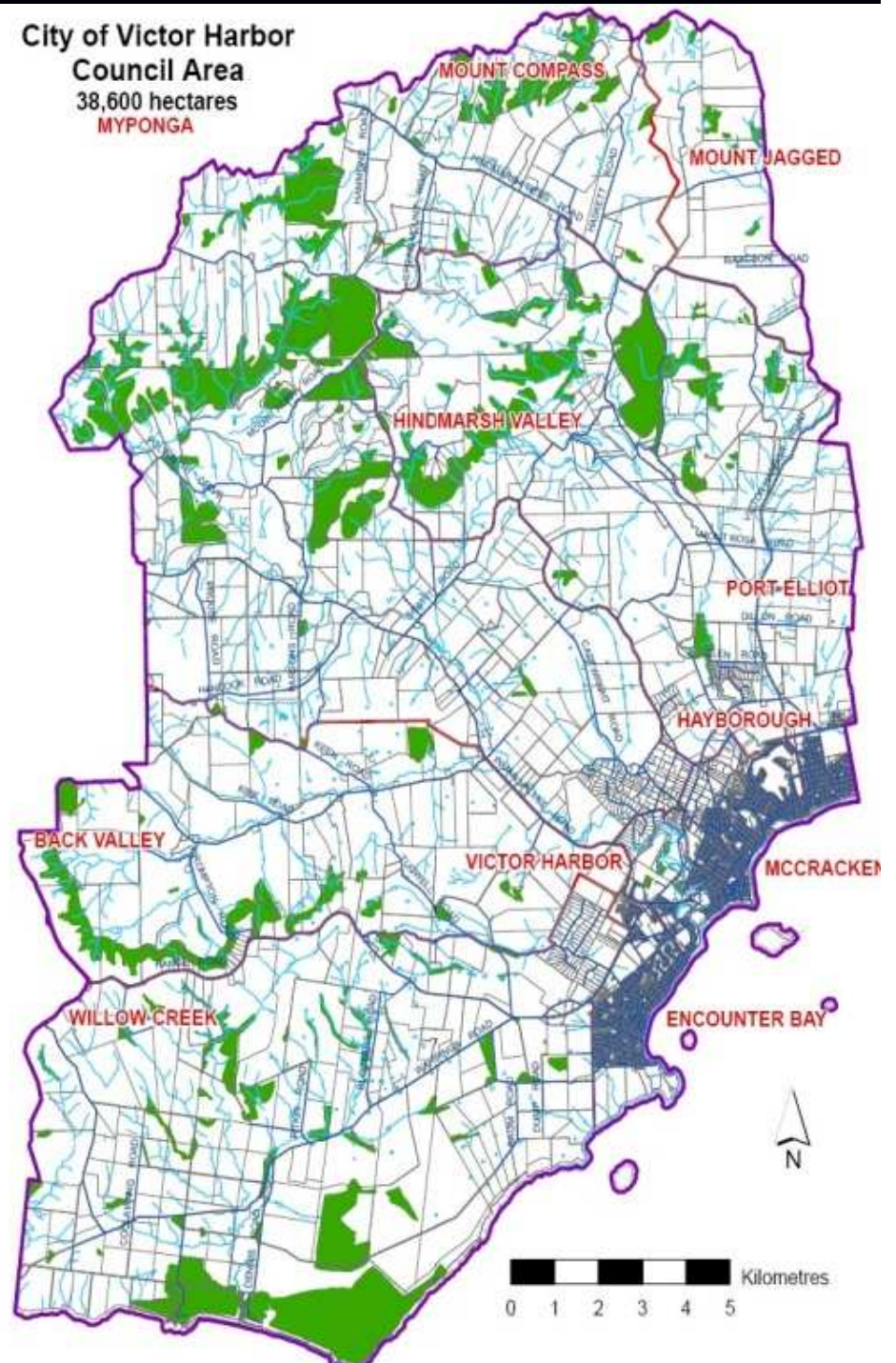
ETSA – 1.5b spend

+ Load shedding

Electranet 500m spend

Diesel generators \$4m

ETS penalties ?



# Are we in time - Federal?

- CPRS is estimated to cost state budgets more than \$2.1 billion in 2013
- More than \$5 billion per year in 2020
- Premiers commissioned Access Economics to do the modelling.
- Increase state taxes - sack teachers and nurses?
- Local Governments will face same
- Extra costs for street lighting - community halls – civic centre libraries

# Local heroes



# C-PREP Born

- Public meetings to gauge support
- C-PREP designed
- Council approval sought
- Adjacent councils advised

SAG to increase SA's consumption of renewable energy to 20% by 2014, and new feed-in laws to reward those who generate solar power and sell it back to the electricity grid. (44c per kWh) must add dom turbines

Solar cities program – all north

# C-PREP - How

- Public consultation
- Let EOI for finance partner
- Let EOI for authorised supplier/installer
- Announce winner
- Announce program and fee
- Public info sessions
- ZEN Coordinates retrofitting on all houses
- Concentrate on solar/wind
- Provide for ongoing program
- One call from audit to install

# Ratepayers like it!

- Towong's popularity was key
- Annual Energy Fair increasing support
- Changed our model slightly to generate \$
- Cant be one off must be ongoing

“Local governments play a key role in how we manage climate change risks to our communities.” Penny Wong

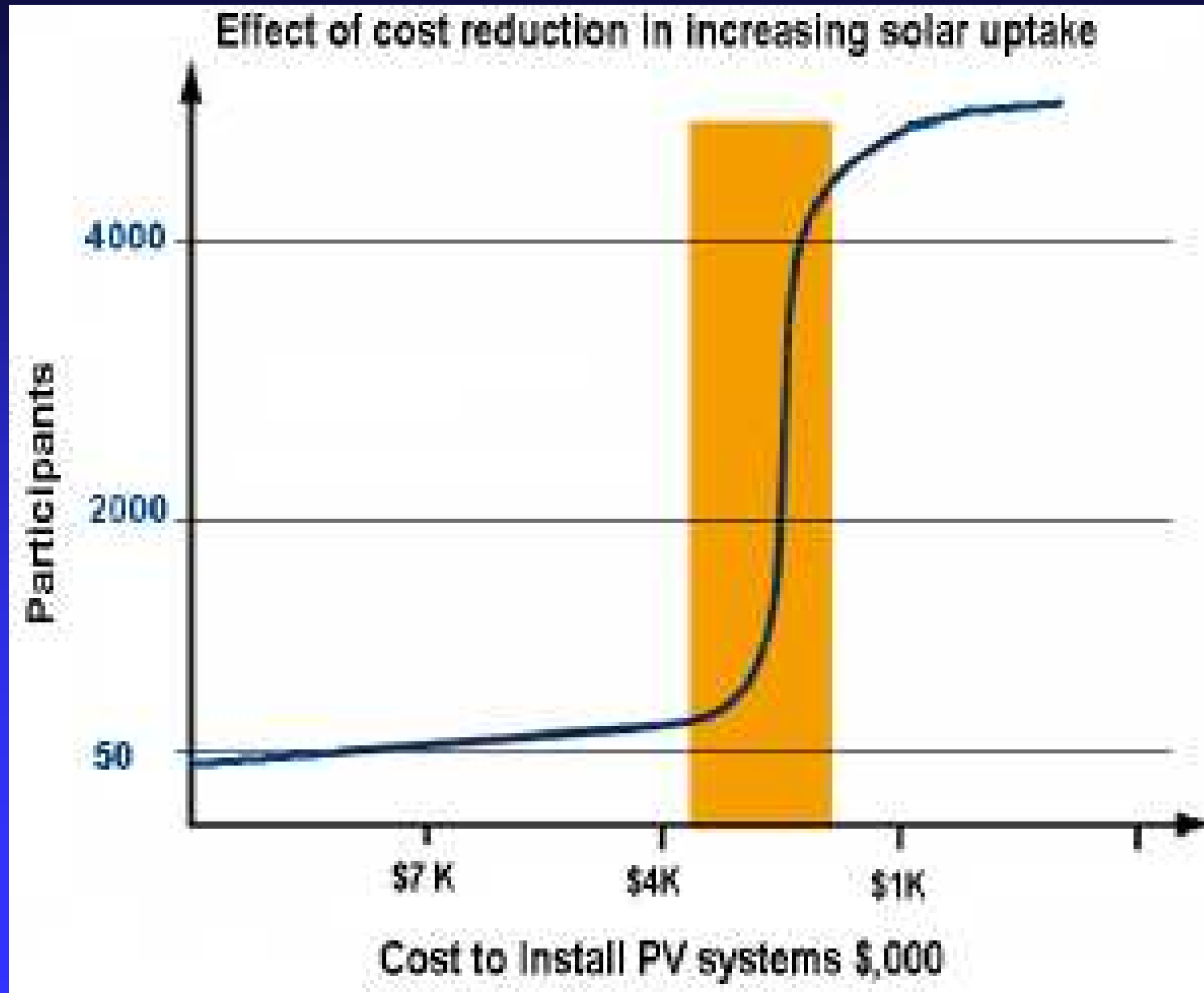
# C-PREP Findings to date

- Immensely popular with ratepayers
- Reduces energy costs
- Ratepayers prepared to pay a fee
- Provides economic opportunity
- Lessens impact of penalties
- Lowers carbon footprint
- Can lead to energy independence
- Is a job creator

# C-PREP Stats

- 900 Fleurieu ratepayers invest \$2,500 - \$2.25m
- \$8m in Federal Government rebates to our areas
- ZEN installs a \$20,000 local office
- Three (3) local jobs created to staff it
- 24 local electricians contracted for installs
- \$35,000 in local newspaper advertising
- \$4,000 ZEN sponsors LGA Annual Conference
- Ratepayer p/a power savings estimated at \$250,000
- \$137,000 raised via rego fees
- \$30,000 ZEN/Adelaide Uni/Vic Harbor partnership for renewables research proof of concept (hybrid)
- ETSA gets \$500,000 for new meters
- 900 households save approximately 1,170 Tonnes of CO2 *annually*

# Based on volume purchase/Gov Incentives



# Councils economic opportunity

To develop alternative energy business by retrofitting existing houses and buildings and use the initial success to leverage ongoing activity

Create employment

Initiate new industries

Lower our carbon footprint

Avoid penalties

Attract funding

Reduce energy bills



# Possible industry

Design

Parts

Local manufacture

Small biz



# Local manufacture - jobs

- Locally designed and manufactured savonius
- Silent and scalable
- Laws-domestic
- Large Sheds
- Hybrid result



# What might be

- Public lighting
- Poles
- Generators
- Parts
- Batteries
- Power plants



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# Our main street ?

**\$180,000 pa**



# It is disruptive! People will say no

- Established interests maintain the status quo
- Political and corporate minds are short term
- Free markets don't include carbon pollution
- Retreat into managerialism – incremental improvements to the status quo
- Technology will save us – from consumption emphasis to - sustainability

# Big chance for LGA SA

“You never change things by fighting the existing reality. To change something, build a new model that makes the existing model obsolete.”

Solar and wind does this.....