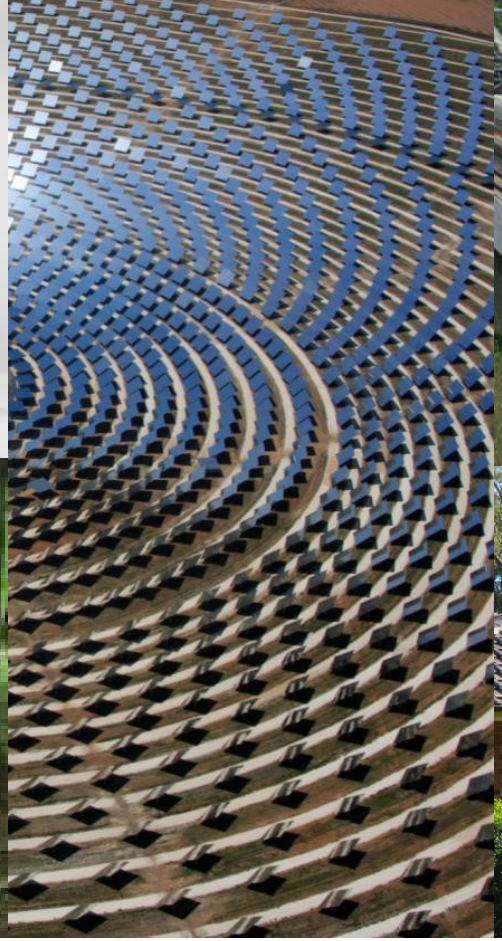
Getting Ready for Zero Emissions and 100% Renewable Energy: Plans and Scenarios to Pave the Way for the Transition
10 December, 2015 - 11:15-12:45 - Room 2
Side event to the UNFCCC COP21, Climate Generation Area, Paris, France

Zero Carbon Australia
by Stephen Bygrave
Beyond Zero Emissions

The event was organised by Nordic Folkecenter for Renewable Energy (Denmark) & NegaWatt (France) in cooperation with INFORSE, Track 0, Centre for Alternative Technology –CAT (UK).
The event was part of the "Climate Generation Area" Conference organised by the French Government parallel to the UNFCCC COP21 - www.cop21.gouv.fr/en/les-espaces-generations-climat/


Zero emissions and 100% renewables in Australia

beyond ZERO emissions

Beyond Zero Emissions

‘Vision: To transform Australia from a 19th century, fossil-fuel based, emissions- intensive economy, to a 21st-century renewable-energy powered, clean-tech economy’

The Zero Carbon Australia (ZCA) Project

Australian National University

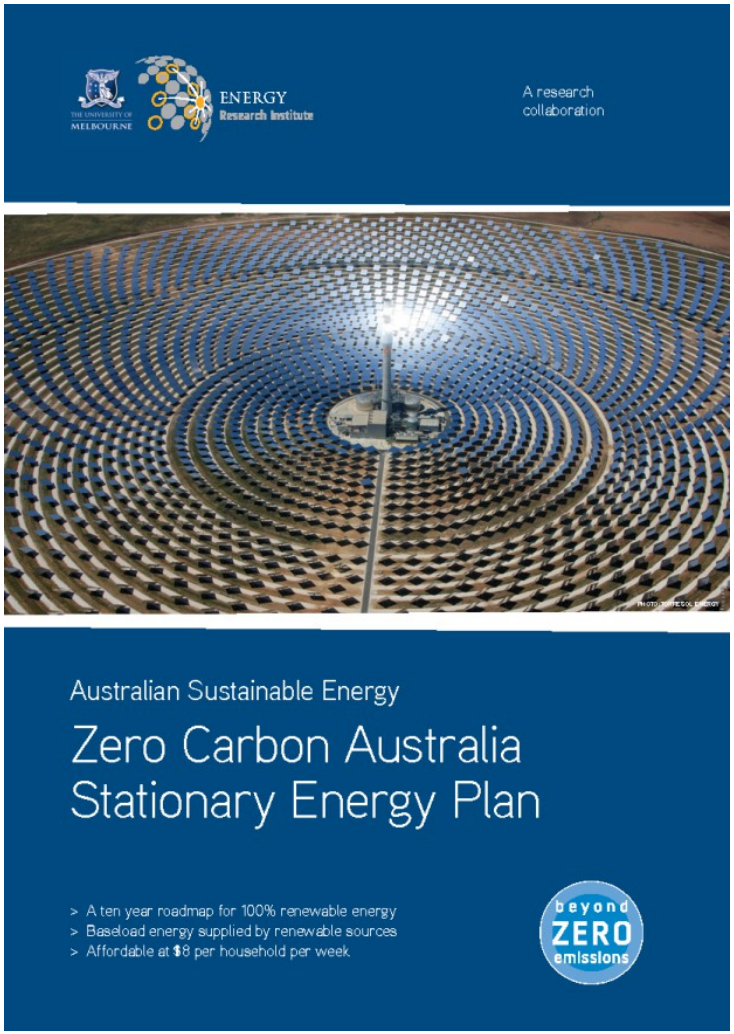
UNSW AUSTRALIA

INSTITUTE OF ENVIRONMENTAL STUDIES

ZCA – modelling all sectors of economy

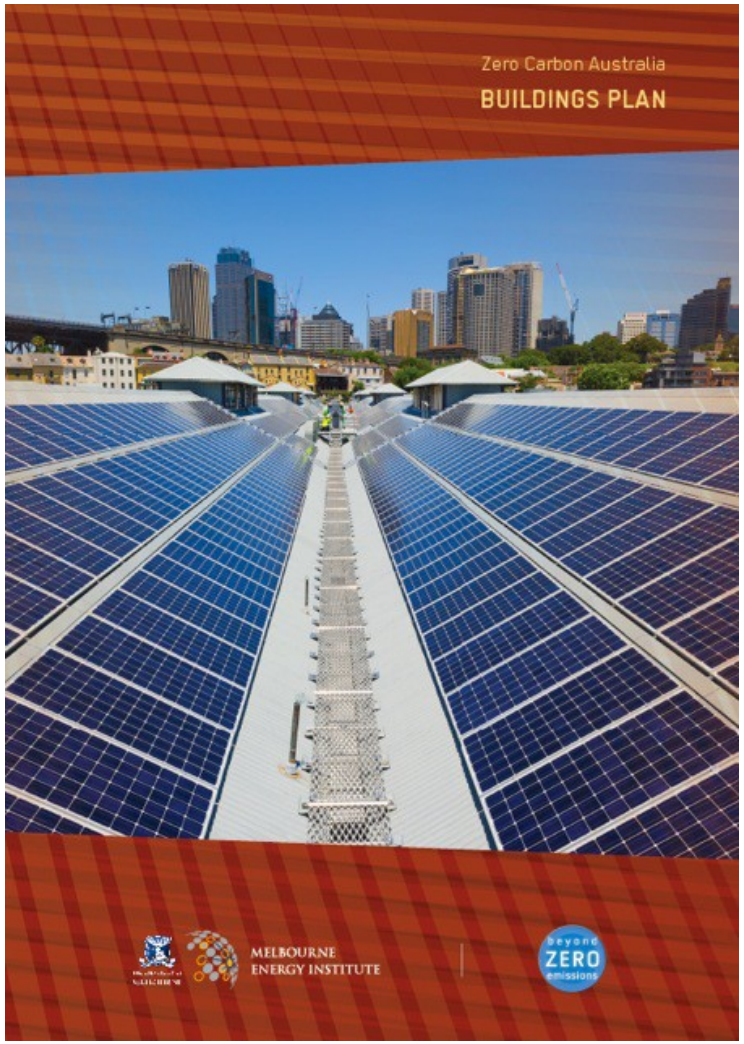
4. Land Use 6.Renewable energy supply 3. Transport 5. Industrial processes 2. Buildings 1. Energy

Path to 100% renewables

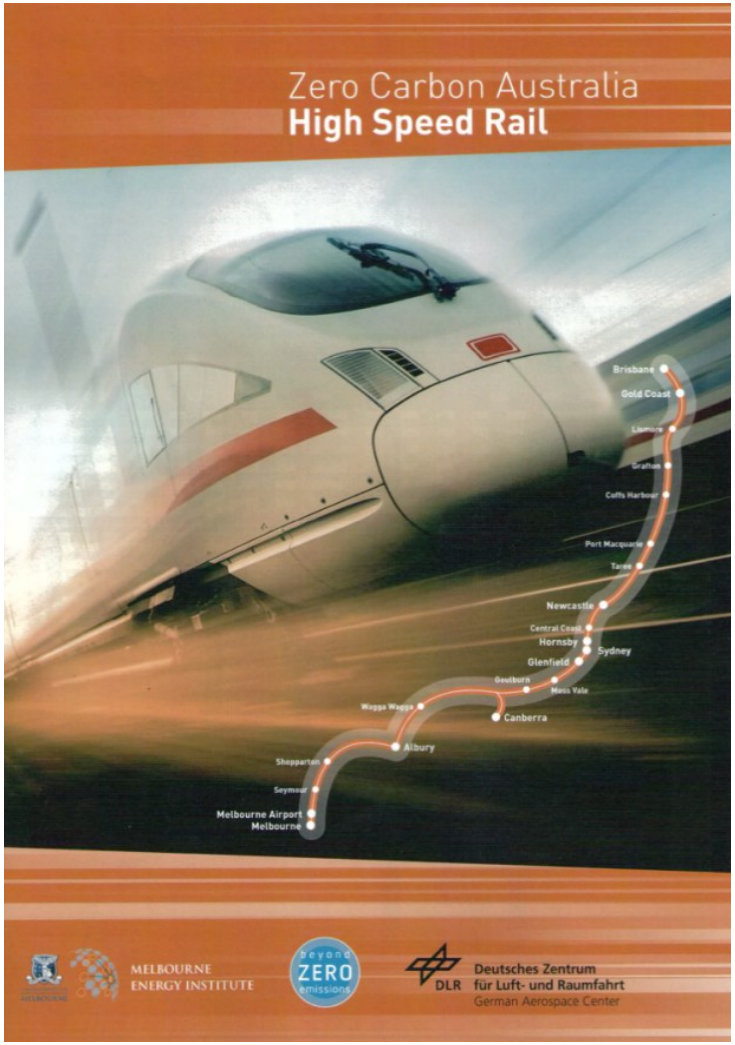


- 100% renewables – Concentrated Solar Power, Wind, Biomass
- Baseload generation 24/7
- $8/household/week

Path to zero emissions buildings



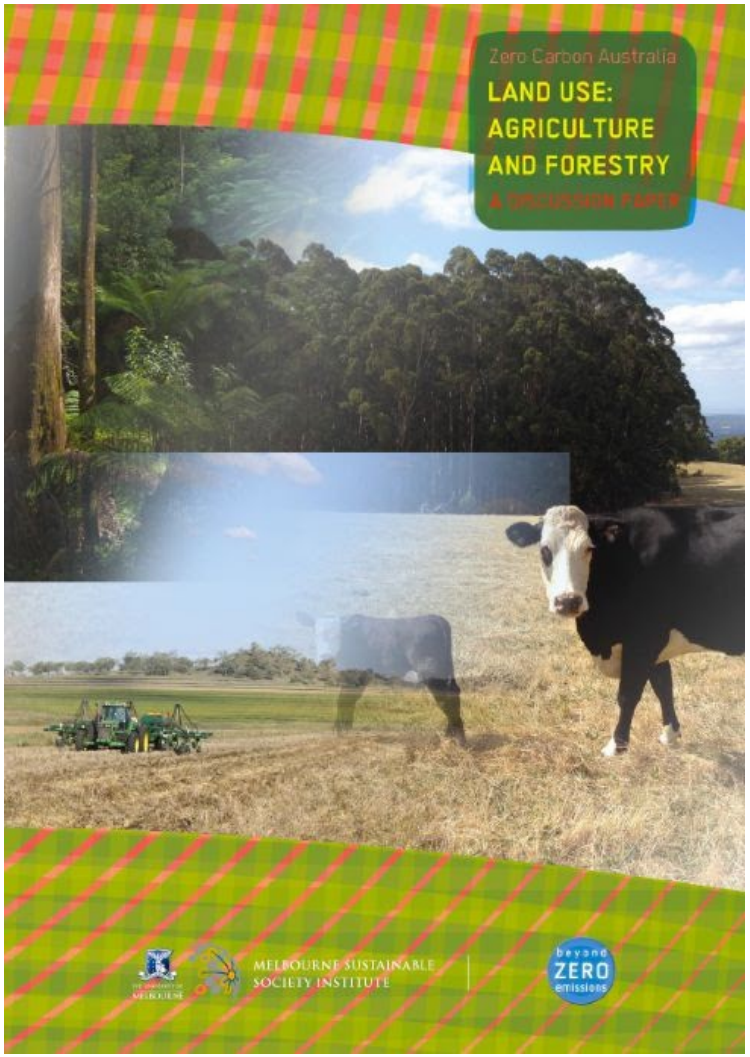
- ↓53% residential energy use
- ↓44% commercial energy use
- 33GW rooftop solar
- Houses renewable energy powerhouses



Zero emissions transport: High Speed Rail/EVs

- HSR reduce emissions by 60% in eastern corridor
- EVs reduce national emissions by 7%
- Transition to EVs cost neutral

Zero Emissions Agriculture



- Stop land clearing/reclearing
- Reduce herd size by 20%
- Savannah burning
- Manure/soil management
- Revegetate 13% Australia – marginal land

Zero Emissions Byron project – Implementing zero emissions transition

- Applying research in all sectors
- Mayor - zero emissions in 10 years
- Adapting national plans to local level

Key features

- Practical application of the ZCA project
- First community in Australia which has committed to this goal across all sectors
- All five major sectors: energy, buildings, waste, transport and land use
- Mayor as active

More information / get involved / visit BZE stand

www.bze.org.au