How
Newcastle Australia might respond to climate change

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Issues

• Prepare for Peak Oil – more sensible transport – bus, rail, cycling
• Prepare for sea level rise in low lying suburbs
• 2007 saw 1:100 storm and flood combined with with king tide
• Four storey urban renewal along transport corridors to promote use of public transport
• Tram trains to rejuvenate Newcastle CBD
• Wind farms along the coast line
• Maximise use of solar energy and water tanks
• Plan for zero emission housing
• No new coal fired power stations
• Plan to reduce coal exports – no more coal loaders
Low lying suburbs
Stockton
Swansea
subject
to sea level rise

Nine mile Beach
Wind farm
Opportunity

Newcastle
largest
coal
export port

Retain rail into Newcastle but introduce new technology tram trains to eliminate level crossings and improve connectivity between Honeysuckle and declining CBD
See the light rail revival

Tram trains will resolve Newcastle’s on-going rail issue providing fast & efficient rail services while rejuvenating the CBD

More cycle ways – on road and along old coal rail corridors
Honesuckle re-development – more required

Redevelopment at Belmont on lake foreshore – more required
Can you envisage the Belmont wind farm??

Albany Wind farm
Typical Lake Macquarie foreshore which will be impacted by rising sea levels

New lightweight house which can be raised if necessary
Existing houses in Hamilton which can be raised when required

Solar hot water and 1Mw PV solar panels on roof
Conclusion

- Plan for peak oil when the price of fuel will rise dramatically – more cycling, walking
- Improve public transport – tram trains for the Newcastle CBD
- Higher density housing along major bus corridors
- Wind farms and solar energy
- Prepare for rising sea levels
- We have time to adapt to the impact of climate change but we must start now