# INQUIRY INTO PLANNING SYSTEM AND THE IMPACTS OF CLIMATE CHANGE ON THE ENVIRONMENT AND COMMUNITIES

Organisation: Coastal Environment Association

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Pease find submission attached in the form of positions advocated by Coastal Environment Association. The NSW Planning system needs to better integrate Coastal Management Programs under the NSW Coastal Management Framework with environmental planning powers and measures under the NSW EPA Act. As with much of the planning reforms carried out since 2013 Local Government has been given more responsibilities whilst loosing environmental planning tools and statutory enforcement powers that it was able to exercise prior to 2013.

For example, the Pittwater Development Control Plan contains comprehensive controls and requirements designed to protect Pittwater's unique natural environment, scenic beauty and character. But radical 2013 changes to the EPA Act drastically reduced DCPs to non-statutory guidelines that must be applied flexibly to facilitate development. Overnight Pittwater DCP couldn't be legally enforced in the way that it was prior to 2013. DCPs should be reinstated as statutory controls that are legally enforceable not just guidelines. Also, Clause 4.6 in the standard LEP needs strengthening and specification of a minimum variation of development standards of around 10% only.

Kelvin Auld, Urban and Environmental Planner MPIA



#### Coastal Environment Association

#### Northern Beaches

#### Goals

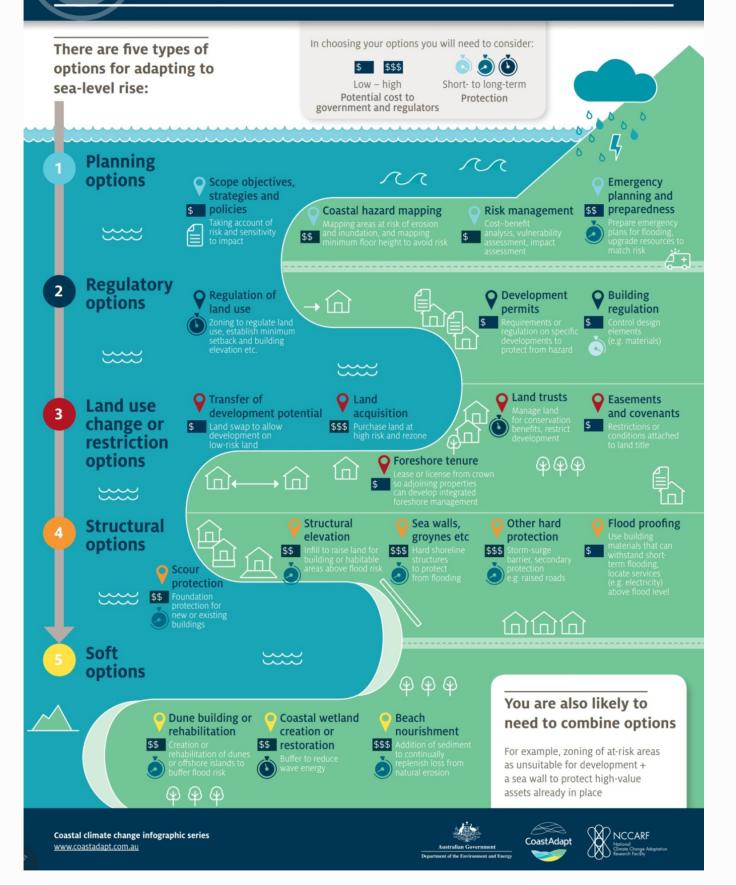
- Protect and enhance our unique coast, ecosystems and processes
- Support a healthy coastal environment
- Promote environmental education including the study of coastal processes and ecosystems

#### Advocacy:

- Support Climate Action and NSW Coastal Management Framework.
- Work with Council and community groups on coastal protection, adaptation and mitigation strategies and projects.
- Advocate a whole of government/community approach to coastal protection and management including resilience planning.
- Address local climate change impacts including sea level rise and increased risk of flooding, beach erosion and coastal recession.
- Promote a total catchment planning and management approach for estuaries, harbours, wetlands and lagoons.
- Advocate a Northern Beaches marine park to improve the protection and resilience of marine biodiversity and ecology.
- Adopt National Trust's policy on off-shore sand mining (extraction)
- Support mixed coastal adaptation and mitigation strategies and projects suited to local conditions with full community involvement.
- All coastal management and adaptation measures, including beach nourishment, to undergo full environmental impact assessment including analysis of costs and longer term effectiveness.

Kelvin Auld: Chair, Coastal Environment Association

## What are the options for adapting to sea-level rise?



## Why is sea-level rise important?

Sea-levels are rising because of climate change



### Thermal expansion

Warmer water expands, therefore global warming is causing the water in our oceans to expand



#### **Melting** ice

Global warming is melting our glaciers and the Greenland and Antarctic land-based ice sheets



High

Higher sea levels

The amount of sea-level rise depends on the amount of climate change

### Sea levels are now 19 cm higher

than they were at the beginning of the 20th century

#### and

## will continue to rise over the next centuries

half a metre or more by the end of the century; around 6 m if the Greenland ice sheet melts completely



#### however

if we limit our emissions,

#### sea-level rise could be reduced

but not for many decades, even centuries because oceans respond very slowly to change Sea-level rise creates risks for our coasts

Higher water levels Floods











#### **Threats**

to land, roads, railways, hospitals, schools, houses

A rough rule of thumb

Approximately a 1 cm rise in sea level on a gently sloping beach...

1 cm

...will bring the water 1 m further landward



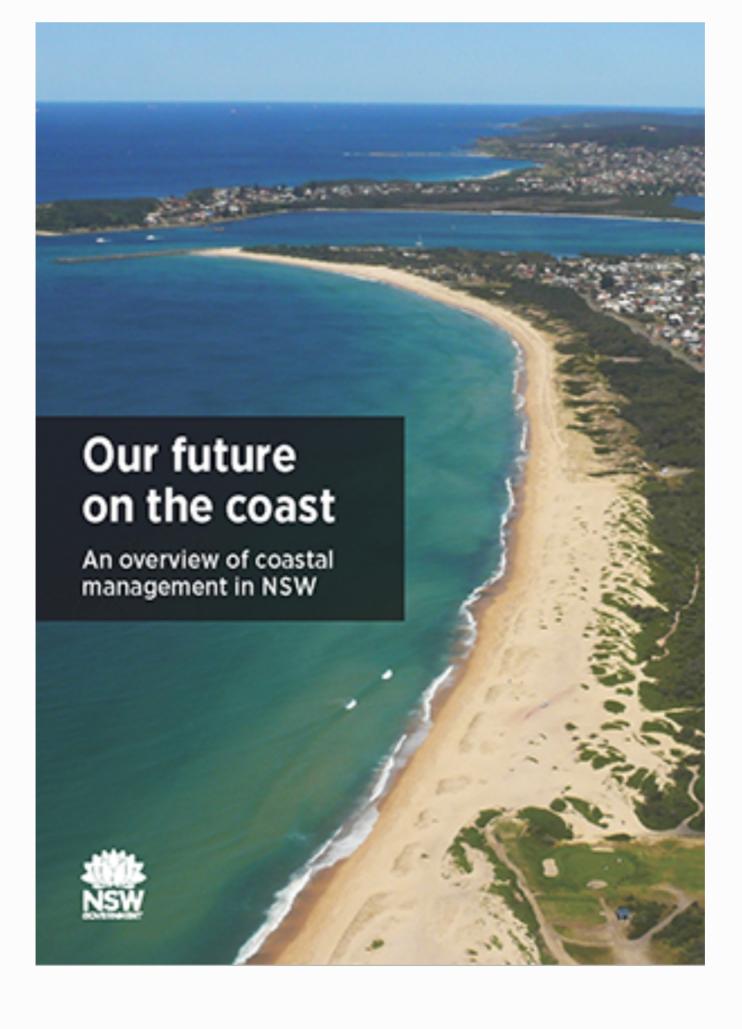


Sea level rise is a key consideration for future planning for our coasts. Further information and planning tools are available at www.coastadapt.com.au











Home > Why adapt > Impacts of climate change > Natural environment > Coasts



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Here, we provide four documents that outline adaptation options in:

- Adaptation options: Planning
- Adaptation options: Engineering
- Adaptation options: Ecosystem management
- Adaptation options: Social, community and education measures.