WHAT WOULD AN EFFECTIVE NATIONAL CLIMATE ADAPTATION STRATEGY LOOK LIKE?

ANU Climate Update 2022

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Framework Convention on Climate Change

Article 2: the "ultimate objective of this Convention" is to "prevent dangerous" climate change "within a time-frame sufficient to allow ecosystems to adapt naturally to climate change, to ensure food production is not threatened and enable economic development to proceed in a sustainable manner."

Article 4.1(b), commits Parties to "Formulate, implement, publish and regularly update national and, where appropriate, regional programmes containing measures to mitigate climate change ... and measures to facilitate adequate adaptation to climate change."

Article 4.1(f): Parties shall "Take climate change considerations into account, to the extent feasible, in their relevant social, economic and environmental policies and actions..."

Adaptation roles of the Federal Government?

NCRAS (2021) states that the role is to:

- provide national science and information (NCRAS focus)
- manage Commonwealth assets and programs (?)
- provide leadership on national adaptation reform (NCRAS rhetoric)
- maintain a strong, flexible economy and a well-targeted social safety net (?).

ANU: Must also facilitate financing of adaptation measures at subnational scales through national agreements, direct grants, cofunding and other instruments.



National Climate Resilience and Adaptation Strategy

- Objective 1 Drive investment and action through collaboration
- Objective 2 Improve climate information and services
- Objective 3 Assess progress and improve over time.

https://www.awe.gov.au/science-research/climate-change/adaptation/strategy

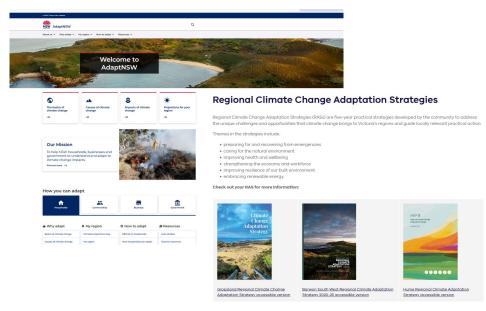
ANU:

- Climate adaptation is not inhibited by a lack of new or robust data.
- The Commonwealth has already funded information on climate change in sectors like: water availability, floodplains, coastal lands at risk, fire prone lands and natural resources management.
- Diminishing returns from further investments in these areas due to uncertainty as to the precise magnitude and rate of impacts.



ANU's recommended 11 point plan!

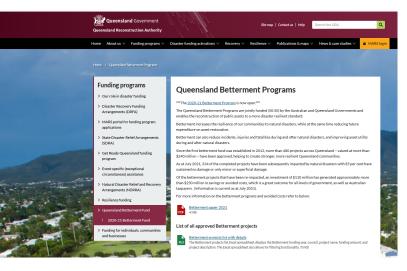
1 Build on existing adaptation plans



NSW and VIC adaptation programs:

https://www.climatechange.environment.nsw.gov.au/home https://www.climatechange.vic.gov.au/supporting-local-action-on-dimate-change

2 Betterment

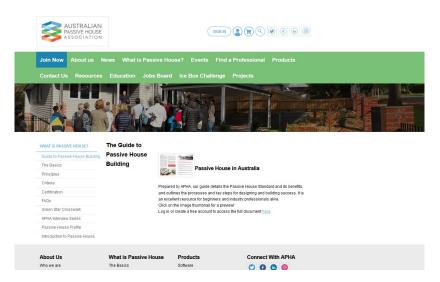


Queensland Betterment Programs 2013+

https://www.gra.qld.gov.au/betterment



3. Better building standards



One example: Passive House Australia https://passivehouseaustralia.org/

4. Coastal development standards



Houses undermined and teetering after a storm at Wamberal NSW in 2020 (ABC News).



5. Buy back schemes



Relocation of Grantham, Queensland after its destruction in a 2011 flood

> Restored floodplain bypass channel. Photo: City of Nijmegen, Netherlands

6. Floodplain restoration





7. Fire management



Control burn, Gurubung Dhaura, Yarralaumla 2019.
Photo: J Pittock

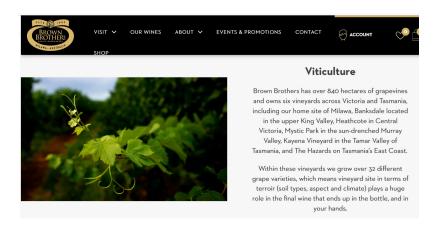
8. Natural resources management



Woodland restoration, Gurubung Dhaura, Yarralaumla 2019. Photo: J Pittock



9. Transformative agriculture



Brown Brothers winery expansion in Tasmania https://www.brownbrothers.com.au/about/winemaking-and-viticulture/

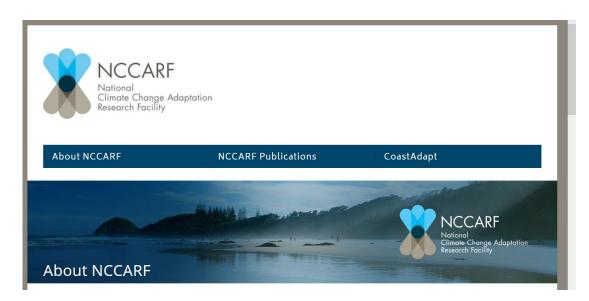
10. More resilient power supply



Solar farm, Monaro Highway, ACT. © J Pittock 2020



11 Information coordination



National Climate Change Adaptation Research Facility (NCCARF) 2008-19.

Source:

ANU ICEDS submission to the National Climate Resilience and Adaptation Strategy Taskforce, 7th September 2021.



Conclusions

- 1. Australia can and should do much better than NCRAS
- 2. Limited returns from more modelling
- 3. We know what to do to reduce key climate change impacts
- 4. The Federal Government should actively support the adaptation programs of state and local governments, and community organisations



Bottle Bend lagoon, NSW, April 2007. © J Pittock



CoP26 Glasgow Climate Pact and climate change adaptation

Baseline in November 2021: "88 countries are now covered by Adaptation Communications or National Adaptation Plans to increase preparedness to climate risks."

Glasgow Climate Pact:

- Goal for developed countries to double the funding provided to developing countries for adaptation by 2025, equating to around US \$40 billion per year.
- Glasgow-Sharm el-Sheik Work Programme on the Global Goal on Adaptation over two years.
- Recognized the critical role of "restoring nature and ecosystems in delivering benefits for climate adaptation", a strategy known as 'ecosystem-based adaptation' and 'nature based solutions'.
- Pledge to end deforestation by 2030 from over 120 countries, representing around 90% of the world's forests.
- Nationally Determined Contributions requesting countries to increase their pledges again in 2022, including on adaptation.

