

South Australia's Approach to Climate Change

Julia Grant
Executive Director,
Water and Climate Change



Government of South Australia
Department of Environment,
Water and Natural Resources



Overview

- International and National Context
- New Climate Change Strategy for SA
 - Consultation
 - Expert Panel
 - Carbon Neutral Adelaide
 - Low Carbon Investment Plan
- Adaptation in South Australia
- Public consultation process



Government of South Australia

Department of Environment,
Water and Natural Resources



International Context



- United Nations Climate Change Conference, COP21, in Paris, France in December 2015
- International States and Regions Alliance – Premier of South Australia is a co-Chair
- Compact of States and Regions



Government of South Australia

Department of Environment,
Water and Natural Resources



International Context

Nation	Greenhouse emissions reduction commitment
--------	---

- | | |
|-------|--|
| China | <ul style="list-style-type: none"><li data-bbox="382 364 1400 406">• A peaking of emissions by 2030 at the latest<li data-bbox="382 421 1848 535">• 60-65% reduction in emissions intensity per unit of GDP on 2005 levels by 2030<li data-bbox="382 549 1848 654">• Increase share of non-fossil fuel energy to approximately 20% by 2030 |
|-------|--|

- | | |
|---------------|--|
| United States | <ul style="list-style-type: none"><li data-bbox="382 688 1690 742">• 26-28% reduction in emissions below 2005 levels by 2025 |
|---------------|--|

- | | |
|-------|--|
| India | <ul style="list-style-type: none"><li data-bbox="382 755 1816 871">• Reduce emissions intensity per unit of GDP by 20-25% on 2005 levels (excluding agriculture)<li data-bbox="382 878 1400 932">• Renewable energy target of 175GW by 2022 |
|-------|--|

- | | |
|-------------|---|
| South Korea | <ul style="list-style-type: none"><li data-bbox="382 951 1758 1003">• 37% emissions reduction on business as usual levels by 2030 |
|-------------|---|

- | | |
|----------------|--|
| European Union | <ul style="list-style-type: none"><li data-bbox="382 1015 1562 1071">• 40% emissions reduction below 1990 levels by 2030 |
|----------------|--|



Government of South Australia

Department of Environment,
Water and Natural Resources



National Context

- Australia's Intended Nationally Determined Contribution is 26-28 % below 2005 levels by 2030
- Climate Change Authority recommends 30% from 2000 levels by 2025, and flexible target of 40-60% by 2030
- National Climate Resilience and Adaptation Strategy
- State and Territory governments are working collaboratively on mitigation and adaptation policy



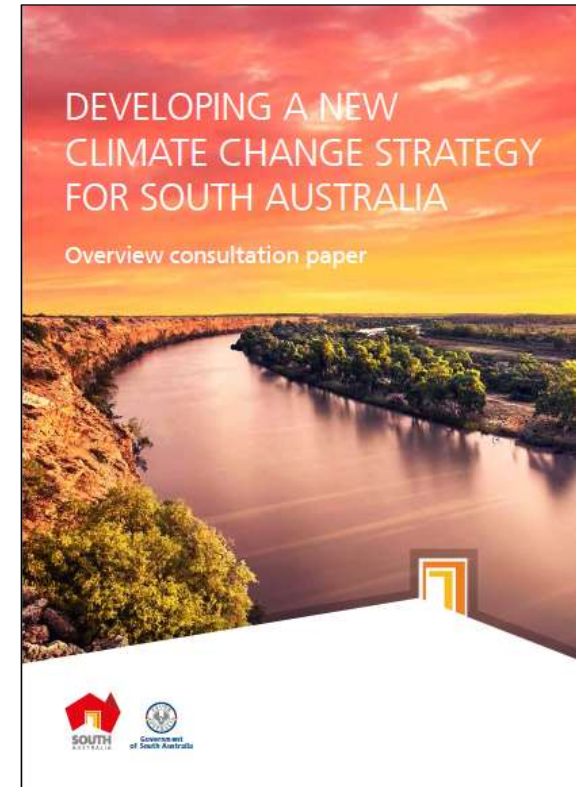
Government of South Australia

Department of Environment,
Water and Natural Resources



South Australia: New Climate Change Strategy

- Key pillars:
 - Building on Regional Adaptation planning process
 - Carbon Neutral Adelaide
 - Low Carbon Investment Plan
- Seven public consultation papers
- Regional and metropolitan workshops
- Review of *Climate Change and Greenhouse Emissions Reduction Act 2007* captured under Strategy consultation process



Public consultation papers

- *Overview*
- *Lead*
- *Adapt*
- *Reduce*
- *Innovate*
- *Carbon Neutral Adelaide*
- *Low Carbon Investment Plan*



Expert Panel on a low carbon economy

- Announced on 9 September 2015
- Appointed to underpin the development of the new Strategy and to provide advice on climate change policy, including how to secure the best economic opportunities for the State.
- Members:
 - Dr. John Hewson
 - Professor Frank Jotzo
 - Ms Anna Skarbek



Government of South Australia

Department of Environment,
Water and Natural Resources



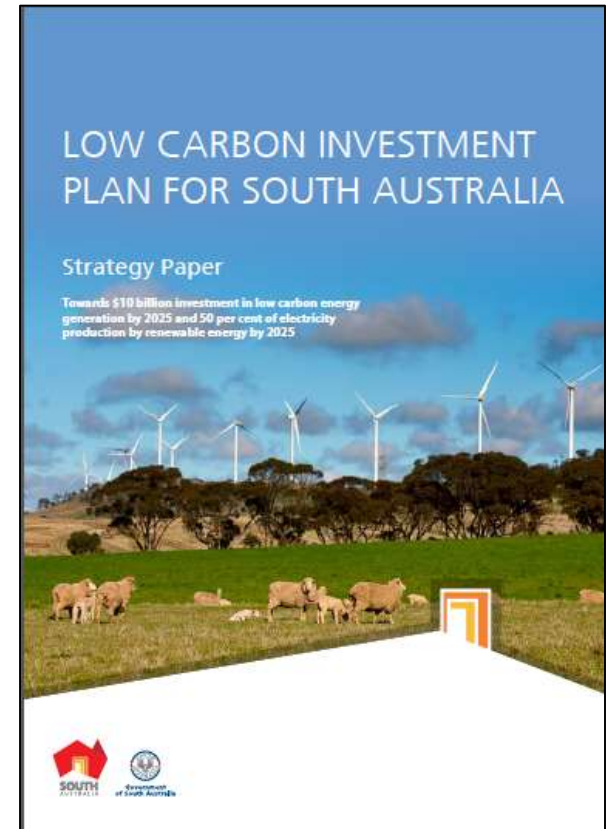
Carbon Neutral Adelaide

- Carbon Neutral Adelaide ambition
- Current emissions – 0.95 million tonnes CO₂-e pa
 - 47% commercial sector
 - 40% transport
 - 5% waste
 - 4% residential sector
 - 4% industrial sector
- Cross-government collaboration
- Partnership with the Adelaide City Council



Low Carbon Investment Plan for SA

- Department of State Development
- Targeting \$10 billion in low carbon investment by 2025
- Strategy paper released as part of the series of seven Climate Change Strategy consultation papers
- Stakeholder consultation and targeted sessions running parallel with climate change strategy consultation
- Low Carbon Investment Plan due for release in December 2015



Adaptation Framework

- *Prospering in a Changing Climate: A Climate Change Adaptation Framework for SA*
- Climate change impacts all of us
- Shared ownership model
 - Planning
 - Funding
 - Implementation
- Recognises local values and knowledge in the planning process
- Empowers local champions and new ideas
- Evolving community of practice



Government of South Australia

Department of Environment,
Water and Natural Resources



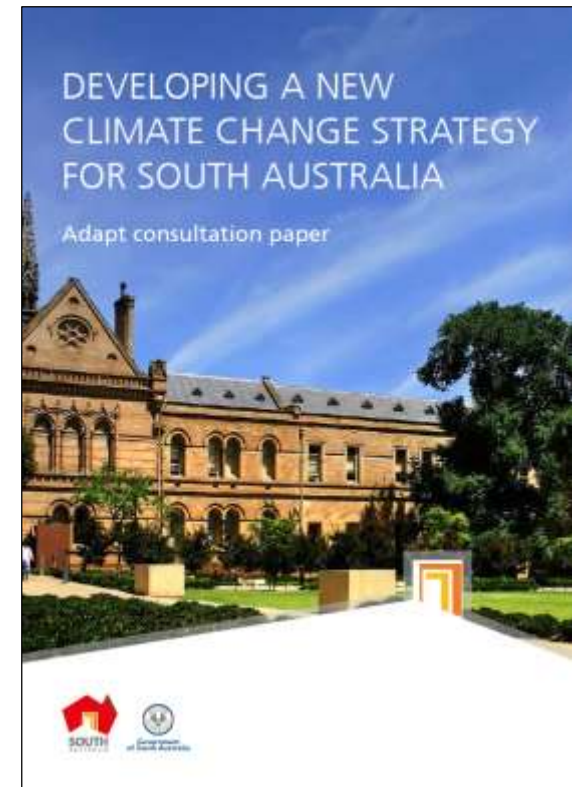
Adaptation Emerging Themes

- Managing risks to biodiversity
- Water resources management
- Industry adaptation
- Vulnerable citizens
- Community services
- Planning, development and infrastructure, including green infrastructure.
- Coastal management



Adaptation – Next Steps for Discussion

- Enhancing effective governance and partnerships for implementation
- Facilitating a whole-of-Government approach to adaptation
- Enhancing legislative basis for adaptation
- Exploring innovative financing approaches



Adaptation – Next Steps for Discussion

- Mainstreaming adaptation considerations
- Development of monitoring and evaluation approaches
- Support adaptation for the most vulnerable
- Facilitate private sector involvement
- Ensure regional adaptation and cross sectoral collaboration is supported.



Government of South Australia

Department of Environment,
Water and Natural Resources



Case in point - Sea level rise

- 2013 – Premier’s Climate Change Council advice
- Joint funding
 - Coast Protection Board
 - Local Government Association of SA
 - Climate change unit in DEWNR
- 2014 - *Defining the Sea Level Rise Problem in South Australia - Issues Paper*
- LGA has consulted with member councils
- Current planning reform process



Adaptation tool - SA Climate Ready

- The Goyder Institute delivered SA Climate Ready - a set of downscaled climate change projections for SA
- Covered six climate variables (including rainfall and temperature)
- Available as regional summaries or detailed data at the scale of weather stations
- This complements the national projections available through Climate Change in Australia (CSIRO/BOM)



Adaptation Tools - Science to Solutions (Stage 1)

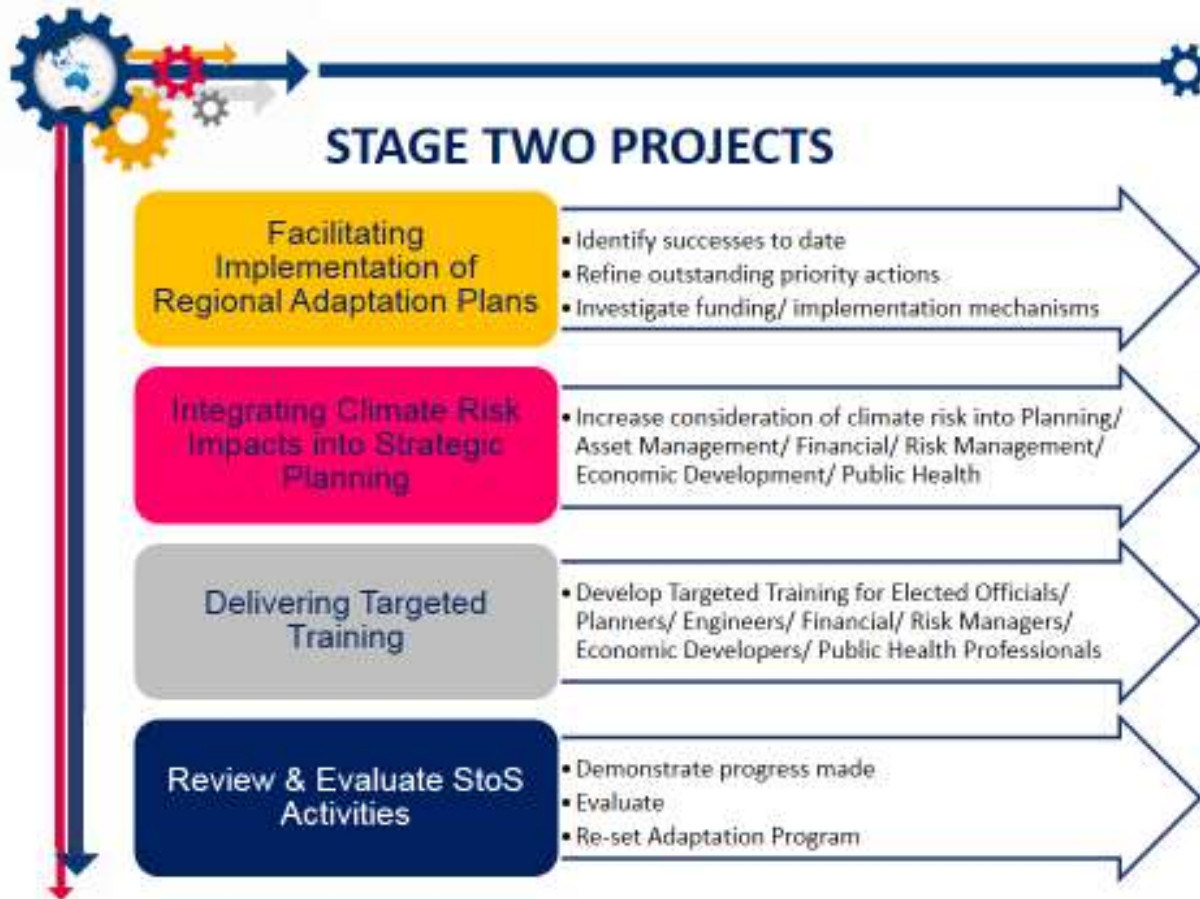


Government of South Australia

Department of Environment,
Water and Natural Resources



Adaptation Tools - Science to Solutions (Stage 2)



NCCARF Conference

- National Climate Change Adaptation Research Facility and CSIRO National Conference
- Registration opens 1 November 2015
- <http://climate-adaptation.org.au>



Climate Adaptation 2016

Change • Challenge • Opportunity
5-7 July 2016, Adelaide



Government of South Australia

Department of Environment,
Water and Natural Resources



Get Involved

- yourSAy.sa.gov.au/climatechange
- Regional workshops throughout September and early October
- Submissions close: Sunday 18 October 2015



Government of South Australia

Department of Environment,
Water and Natural Resources

