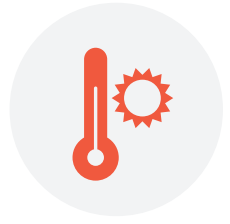


Climate change



Relevant Targets

1 Target 1

2 Target 2

3 Target 3

4 Target 4

5 Target 5

Mitigate against and adapt to our changing climate

Adelaide is vulnerable to changes in the temperature, extreme weather events, sea level rise, and associated storm surges. Greater Adelaide's future prosperity and liveability will depend on how effectively we address and respond to the impacts of climate change.

Promoting a more compact urban form (through locating jobs and housing closer to public transport to reduce car travel)

will play a critical role in reducing the growth of greenhouse gas emissions. Additionally, creating environments that are green and cooling will make Greater Adelaide more liveable in a warmer climate, hotter temperatures and extreme weather conditions.

Encouraging and enabling the establishment and expansion of green industries, technologies and building innovation will provide Adelaide with a competitive advantage and improve its capacity for ongoing resilience to climate change.



Climate change

Policies

P105. Deliver a more compact urban form to:

- protect valuable primary production land
- reinforce the Hills Face Zone, character preservation districts and Environment and Food Production Areas
- conserve areas of nature protection areas
- safeguard the Mount Lofty Ranges Watershed
- reduce vehicle travel and associated greenhouse gas emissions.

P106. Protect key coastal areas where critical infrastructure is at risk from sea level rise, coastal erosion and storm surges, and ensure new coastal development incorporates appropriate adaptation measures.

P107. Increase the proportion of low-rise, medium-density apartments and attached dwellings to support carbon-efficient living.

P108. Promote green infrastructure (including green roofs, vertical gardens and water sensitive design) in higher density and mixed-use developments to assist with urban cooling, reduce building energy use and improve biodiversity.

P109. Support a zero waste culture by reducing the waste footprint of new development.

P110. Encourage the adoption of best practice waste management design and systems in high-density residential and mixed use developments.

P111. Create a more liveable urban environment through establishing a network of greenways, bicycle boulevards, tree-lined streets

and open spaces, which will have a cooling effect on nearby neighbourhoods and buildings.

P112. Provide the opportunity for neighbourhood-level alternative energy supplies, which may include embedded and distributed renewable energy, co-generation and smart grid/green grid technology.

P113. Promote energy efficiency, the use of renewable energy sources and neighbourhood level alternative energy supplies and storage in new developments to reduce energy costs and carbon footprint.

P114. Encourage the provision of electric vehicle charging points in new higher-density developments, large public and private car parks, activity centres and employment lands.





Case Study: Carbon Neutral Adelaide

The Government of South Australia and Adelaide City Council have formed a globally unique partnership to establish Adelaide as the world's first carbon neutral city. The partnership aspires to achieve carbon neutrality whilst driving economic and employment opportunities. Importantly, Adelaide will be transformed into a vibrant, sustainable 21st century city and will become a global test bed for innovative technologies.

The Carbon Neutral Adelaide Action Plan¹³ uses a partnership approach for delivery and the following carbon emission reduction pathways:

1. Energy efficient built form
2. Zero emissions transport
3. Towards 100% renewable energy
4. Reduce emissions from waste and water
5. Offset carbon emissions.



Climate change

Making it happen - the planning system

In the short term

A59. Develop planning policies and provide guidance to assist in the delivery of green infrastructure.

A60. Facilitate design leadership through developing guidelines for carbon neutral and energy efficient building design and material use.

A61. Support carbon neutral development in the City of Adelaide aimed at making it the world's first carbon-neutral city.

A62. Develop a process to ensure consistency in how green canopies and other green infrastructure are measured.

A63. Pursue opportunities to plant urban green cover along arterial roads, rail corridors and medians where safe to do so.

Other key levers to unlock opportunity

- Invest in the Carbon Neutral Adelaide Partnership with Adelaide City Council to leverage private sector investment in renewable energy and storage by building energy efficiency and electric vehicle infrastructure.
- Undertake demonstration projects, for example use the Adelaide Living Laboratories in Tonsley, Bowden and Lochiel Park and the Low Carbon Living CRC to demonstrate how to build low impact development and affordable green living.
- Implement the *Prospering in a Changing Climate: A Climate Change Adaptation Framework for South Australia* (2010).
- State Government to lead by example through:
 - setting a new target of 50 per cent of all the State's power to be generated by renewable sources by 2025. This will also support the Government's commitment to \$10 billion investment in "low carbon" generation by 2025.
 - working towards achieving a Low Carbon Economy and achieve a target of net zero emissions by 2050.