

A new approach to managing our urban environment



Green Adelaide is a hills to sea approach connecting people to nature







We are fortunate to live in a city set amongst beautiful natural surrounds and bounded by stunning beaches, wilderness areas, national parks, picturesque hills and unique regions.

Adelaide has consistently been rated as one of the world's most liveable cities but we must work hard to retain that status in the face of mounting challenges, such as a changing climate and population growth.

Now, through the establishment of Green Adelaide, we have the opportunity to fulfil an ambitious vision for the future that transforms our city into a world-leading, sustainable, green and climate resilient city. We will achieve this through an integrated approach to urban water and coastal management, greening of our streets and enhancing our biodiversity. We will become a global model for connecting the community with nature.

Green Adelaide will bring opportunity, innovation and leadership, building on successful on-ground outcomes delivered by our valued volunteers and other partners to drive new and bold initiatives to reach ambitious environmental outcomes.

I look forward to working with you to develop this exciting new body.

David Speirs MP
Minister for Environment and Water

Acknowledgement of Country

The Government of South Australia acknowledges the Kaurna people as the custodians of the Adelaide-Tarntanya region and that their cultural and heritage beliefs are still as important to the living Kaurna people today. We also acknowledge that Kaurna peoples' deep knowledge and connection with Yarta (Country) and autonomy are determinants of Aboriginal health and wellbeing and will support increased opportunities for involvement in the management of land, sea and water, and enhanced engagement in decision-making processes.

What is Green Adelaide?

Green Adelaide offers a new approach to managing our urban environment. It will drive innovation and action in metropolitan Adelaide to deliver a climate resilient and ecologically vibrant city, from the hills to the sea. It will be globally recognised for its liveability and thriving environment.

Partnerships and collaboration with all levels of government, non-government organisations, the community, researchers and Kaurna as Traditional Owners will be at the heart of Green Adelaide.

Green Adelaide will build on Colonel William Light's vision for 'a river city surrounded by parklands for fresh air and a rural hinterland beyond' to create a city with greening at its heart and throughout its suburbs and neighbourhoods, where people will want to live, work and play.

Green Adelaide will ensure that all South Australians are connected to nature and recognise it as integral to their health and wellbeing.

Adelaide will become a leading example of resilience to a changing climate. We make the commitment to tackle this threat boldly by integrating and intensifying our collective efforts. In this way we will not just adapt but thrive.

Adelaide will aspire to be one of the world's first National Park Cities, bringing together health, education, climate, sustainability, biodiversity, water and coastal management outcomes.

Green Adelaide and natural resource management reform

The Government of South Australia has committed to a range of reforms to the management of natural resources across the state. Green Adelaide will be a new entity with a focus on these functions in metropolitan Adelaide.

The Minister for Environment and Water has listened to feedback from conversations with key stakeholders and the broader community on how these reforms can best be realised, including in the urban landscape.





Our purpose

Adelaide's growth and prosperity depend on sustaining, protecting and growing our natural environments, taking on the challenges of a drying and warming climate and safeguarding and promoting the health and wellbeing of its people.

We can be rightly proud of the liveability of our city, but we can't stand still. The issues ahead will require strong leadership, collaboration, influence and commitment across all tiers of government and the community so we can prepare for and respond to future events.

A snapshot of the challenges we face



Urban water

Alongside economic growth and vitality, urbanisation also brings challenges such as reduced green open space, stormwater management, increased rainwater runoff and water security issues.



Climate Change

The consequences of global warming can already be observed in Adelaide through more extreme weather, rising sea levels, diminishing rainfall and increasing temperatures.



Urban infill/ densification

The 30 Year Plan for Greater Adelaide identified the target, '85% of all new housing in metropolitan Adelaide will be built in established urban areas by 2045'.

This contains our urban footprint and protects our resources. But our progress needs to be carefully managed to ensure a healthy balance of public green space, important backyard habitats for wildlife and increased stormwater runoff.



Maintaining health and wellbeing

Currently 46% of South Australians have been diagnosed with at least one chronic disease or condition (Chronic Disease Action Plan for South Australia, 2009-2018).

Spending time in nature and living close to parks and other green spaces provides benefits for physical, mental and social health and wellbeing.



Community connections

The increase in people living in urban areas and the reduction of urban green spaces contribute to a growing disconnect from nature and from each other, resulting in declining health, wellbeing and social connections.



Reduction of habitat

Urban growth can be catastrophic for native species and maintaining flora and fauna in the city. Urban infill can cause habitat loss, introduction of exotic species. attract abundant species, increased pollution and the creation of urban heat islands.



Green Adelaide's priorities

Green Adelaide will be a strategic, influential organisation that drives innovative reform across the urban landscape, with a strong focus on seven key priorities.







Coastal management

South Australia's stunning coastline includes beaches, dune systems, tidal waters, wetlands and cliffs attracting over nine million visitors each year. Our coastal environment contributes significantly to our economy, delivers social, cultural and health benefits and features vital habitats for our flora and fauna, while also protecting development and housing from flooding and erosion.

We have an opportunity to oversee a unified focus on the management of our coastal and marine environments through connecting and balancing environmental and recreational values.

Green Adelaide will focus on coastal access, restoration of biodiversity, management of significant coastal sites, management of seagrass habitat and reef restoration. This requires an integrated approach through significant partnerships with community groups and local government.

Dedicated resources and effort will also be directed towards protecting our coastline against sea level rise and climate change.

The government's New life for our coastal environment commitment will deliver practical outcomes, while also developing longer term management measures to protect and enhance South Australia's remarkable coastal habitat.

- » Oversee the management of the metropolitan coast through a new strategy that includes restoration and conservation of coastal biodiversity and significant coastal sites—including Tennyson Dunes, reefs and seagrass habitat—and beach replenishment activities.
- » Ensure a coordinated approach to managing our metropolitan coastline through partnerships with local government and non-government organisations, as well as key bodies including the Coast Protection Board.







Urban rivers and wetlands

Water resources, including rivers and wetlands, sustain our way of life and our economic vitality. South Australia is already seen as an international leader in urban water management, but there is scope for improvement, particularly in managing our rivers and wetlands with a united, cross-boundary approach.

The management of Adelaide's water resources and wetlands is shared across multiple entities and organisations, including private landholders with a watercourse located on their property. This creates complex arrangements.

The smart use of our water resources can create green open spaces and healthier waterways and beaches. This supports biodiversity and delivering health and wellbeing benefits as well as improved resilience to flood, drought and a changing climate.

The continuous improvement of our existing waterways, wetlands and coastal areas ensures their safety, health and sustainability. Identifying and implementing new river and wetland restoration and revitalisation opportunities is equally important. As Adelaide continues to grow, Green Adelaide will be central to promoting integrated action for our urban water resources and wetlands.

This will assist with improved stormwater management and use from local to city scale.

- » Drive an integrated 'hills to sea' approach to urban water management that considers water sensitive urban design, re-use of water, public amenity, flood management and the quality of water entering the gulf.
- complex management arrangements, such as for the River Torrens.







Green streets and flourishing parklands

Green streets, urban parks and Adelaide's iconic parklands provide much more than a pleasant environment to live in. They contribute to the economy, biodiversity and improve the health and wellbeing of our community by cooling our growing city. Its goal is to increase tree canopy cover and generate the green spaces our communities and wildlife need.

More people live in apartments or houses with small or no back yards. Green streets and flourishing parklands will become more important in reducing urban heat build-up, providing an essential wildlife habitat and offering places for recreation.

Urban greening plays a critical part in protecting people and property from extreme weather events such as heatwaves and storms.

Urban heat mapping has identified hotspots in the metropolitan area. They generally have fewer green spaces, trees, shrubs and grass and can be up to 3-4°C hotter on sunny days.

An increase in impermeable surfaces (roofs, roads, pavements) in residential developments puts neighbourhoods at greater risk of flooding as rain and stormwater are less easily absorbed.

It is vital that the water sensitive urban design and the green streets and flourishing parklands key priorities are strongly linked and, in partnership with local government, embedded into planning and development at every scale.

The government's commitments to create Glenthorne National Park and open up reservoirs, as well as establishing the Greener Neighbourhoods fund, are all part of Adelaide's ambition to become an ecologically vibrant National Park City.

- » Partner with local government to build on existing urban heat island mapping to produce a map of Adelaide that identifies priority areas for greening, green infrastructure and water sensitive urban design action.
- » Fund and provide grants to local government to deliver greening outcomes in public spaces, including through the Greener Neighbourhoods grant program.
- » Influence new building designs to support an urban landscape with tree canopy cover and biodiversity habitat.



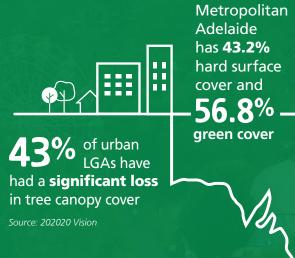


Average canopy cover for urban South Australia in 2016 was 19.5%, down 1.9% from 21.4% in 2013.

Source: 202020 Vision

Spending time in urban green spaces can increase levels of social connection and wellbeing, as well as reduce depression and anxiety.

Takayama et al 2014.



An Australian study found that residents in neighbourhoods containing greater than 20% green space were significantly more likely to walk and participate in moderate to vigorous physical activities on at least a weekly basis.

Astell-Burt et al 2013.



Water sensitive urban design

Water sensitive urban design is integral to creating attractive and sustainable urban living. It brings together the management of water from all sources – stormwater, wastewater, rainwater and groundwater - to achieve secure and sustainable water supplies for our urban communities and economy.

Green Adelaide will drive an integrated approach to water resources management so that issues and opportunities are planned holistically, enhancing overall urban liveability.

Urban and natural environments contribute to improving water security and quality. Actions such as incorporating water sensitive urban design into new developments and retrofitting it into existing areas help to reduce the impact of population, economic and housing growth on our water use. Examples include raingardens located along suburban streets and harvesting and reusing stormwater.

The flow of water is fundamental for healthy urban green spaces. As temperatures increase and rainfall decreases, more water will be needed to sustain urban green spaces.

Water sensitive urban design can reduce our reliance on drinking water for irrigation and help keep our streets shady, green and cool.

Leadership from Green Adelaide will help drive water sensitive urban design action, and influence planning and development at every scale to ensure Adelaide is liveable, sustainable, productive and resilient to the future challenges of a drying and warming climate.

- » Partner with state and local government, the planning system and Water Sensitive SA to proactively encourage policies to embed greening and water sensitive urban design into private and public planning and development at every
- » Provide grants to local government and other third parties to deliver more water sensitive urban design action across the region to support greening, cooling and climate resilient outcomes.







Controlling pest plants and animals

Adelaide has diverse environments rich with wildlife, but many pest species have been introduced over time. The effective management of pest plants and animals is critical to the long-term survival of native species.

The responsibility to manage pests is now shared between landholders, government, commercial enterprise and the broader community. Consideration will need to be given to how this is best managed.

The behaviour of urban communities in relation to pest plants and animals can impact on both metropolitan and rural areas through spreading plants and releasing birds and animals into the wild and potentially causing significant economic, environmental and social impacts.

Pest plant and animal control will need management actions, educational programs and collaborative partnerships to ensure the management of invasive species.

- » Oversee a pest animal and species strategy and provide grants to third parties to deliver
- » Undertake compliance-related activities in partnership with the Department for Environment and Water and the neighbouring Landscape Boards, the Department of Primary Industries and Regions and local government.







Nature education

Inspiring a love of nature is fundamental to it being valued by the community and preserved for generations to come. When people connect with nature from a young age, it brings developmental, health and emotional benefits. It can also nurture future advocacy and an active desire to protect our precious natural environment and native species.

Hands-on experiences discovering the outdoors and nature, together with a great school education, will create our environmental stewards of the future. The success of programs like NRM Education and Nature Play provides the platform for Green Adelaide to build on the work already happening within schools and urban communities.

Community wellbeing comes from knowing why and how to get involved. Sustainability programs for adults and families will help connect people to nature.

Green Adelaide will:

businesses and government to deliver a nature education strategy that builds on existing activities and programs, such as nature education, volunteer support, community-run natural resource centres and urban sustainability and coastal ambassador programs.



"strongly believe that what (they) personally do makes a difference to the environment" 89% say that "I like to interact with nature"



Source: 2016 AMLR Survey South Australians and the Environment

138 instances of behaviour change

in the community as a result of school initiatives reported by 50 teacher survey responders (2017 teacher survey).

In 2017, the NRM Education program engaged with 436 schools and preschools across the AMLR region, with 40,419 individuals participating in events supported by NRM Education.







Fauna and flora in the urban environment

Maintaining and enhancing Adelaide's unique, biologically diverse natural environment provides clean air, water and land, helps build resilience to climate change, contributes to the economy and supports the lifestyle we enjoy.

Green Adelaide will create green corridors to link the Mount Lofty Ranges from the city to the ocean.

A strong focus on greening the city, improved coordination across the private and public realm and an integrated urban water system provide the opportunity to grow and create more habitats for native birds and animals across the urban area.

Spaces supporting habitat must be integrated and connected across neighbourhoods and landscapes. It is not just about creating new open spaces, but also about maximising existing ones such as rooftops and the spaces between and around buildings, and then connecting them to create wildlife passages throughout the city. This will allow over 1080 different plant species, 300 birds, 60 fish, 40 mammals and more than 45 reptiles within the Green Adelaide region to continue to flourish.

While we value our native fauna we also know it can pose a problem in urban areas. A joint effort by urban residents, natural resource managers, local government and non-government organisations is needed to better understand and manage, mitigate or promote humanwildlife interactions, maximising the benefits of living with wildlife.

- » Aspire to create a National Park City through protection and creation of habitat to promote urban ecology and biodiversity.
- » Fund local government and provide grants to third parties to deliver practical on-ground projects that support and create more habitat for birds and animals across the urban area.
- » Engage and support community activities, which could include more bee hotels, lizard lounges and butterfly gardens.
- Oversee the management of abundant species in the urban environment and continue the development of strategies to reduce the problematic interactions between fauna and urban
 communities.





Adelaide International **Bird Sanctuary** Green **Adelaide** boundary The Green Adelaide region recognises communities of interest Adelaide CBD rather than strict catchment areas, but will involve partnerships with neighbouring landscape boards. 10 The boundary takes in the urban footprint of metropolitan Adelaide, including areas identified for future urban growth through the planning and development system. A portion of the City of Onkaparinga Glenthorne is included within the southern **National Park** reaches of Green Adelaide, with the rest forming part of the Hills and Fleurieu Landscape Board. **Local Government Areas** 1. City of Playford 9. City of Norwood 2. City of Salisbury Payneham and St Peters 10. City of West Torrens 3. City of Tea Tree Gully 11. Adelaide City Council Aldinga Scrub 4. City of Port **Conservation Park** Adelaide Enfield 12. City of Burnside 5. Campbelltown 13. City of Unley City Council 14. City of Holdfast Bay 6. City of Charles Sturt 15. City of Marion 7. City of Prospect 16. City of Mitcham 8. Town of Walkerville 17. City of Onkaparinga

Partner programs

More than half the world's population is urban and 90% of all urban areas are coastal, like Adelaide. From a global to a local scale, our future prosperity, the liveability of our cities and towns, the health and wellbeing of our communities and the resilience of our built and natural environment all depend on how well we address the challenge of climate change.

The inclusion of Carbon Neutral Adelaide and Greener Neighbourhoods programs within Green Adelaide will support our response to climate change impacts.

Greener Neighbourhoods

The government's \$2 million Greener Neighbourhoods commitment will provide grants to local government to support projects that increase tree canopy and green cover and lead to on-ground benefits for local neighbourhoods and communities.

This will help to reduce the urban heat island effect, enhance visual amenity, provide health and wellbeing benefits, and create habitat for wildlife in metropolitan Adelaide.



Carbon Neutral Adelaide

Carbon Neutral Adelaide is a collaboration between the State Government and City of Adelaide to make Adelaide the world's first carbon neutral city. The program's focus is on reducing emissions through energy-efficient buildings and infrastructure, zero emissions transport, renewable energy generation and reducing emissions from waste and water.

The Carbon Neutral Adelaide Partner Program acknowledges that state and local government needs partnerships and community action to achieve these objectives. There are almost 160 partners and the program engages with more than 1800 individuals, businesses and other groups.





Green Adelaide Board

The Green Adelaide Board will be an expert, skills-based statutory board of up to 10 members appointed by the Minister for Environment and Water.

High-level and influential, its members will bring the skills, qualifications, knowledge and experience required to influence and partner with state and local government, statutory entities and non-government organisations to drive innovative reform across the urban environment.

The board will prepare and administer the delivery of a five-year Green Adelaide Plan.







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