



CLIMATE READY HOLDFAST BAY



Resilient
South

Climate Ready
Southern Adelaide



Climate Ready Holdfast Bay

City of Holdfast Bay has worked for many years to get on the front foot with climate change.

We recognise that the world is in a state of climate emergency and that all levels of Government have a responsibility to act. We have set a target to become carbon neutral by 2030 which is detailed in our 2020-2025 Environment Strategy.

We have forged strong partnerships across every level of government, the business community, NGOs and community groups.

We are also founding members of Resilient South, which works to strengthen southern Adelaide so that our businesses, communities and environments can tackle the challenges of a changing climate and make the most of opportunities.

Join us in getting climate ready!

resilientsouth.com

holdfast.sa.gov.au/climatechange



ENVIRONMENT



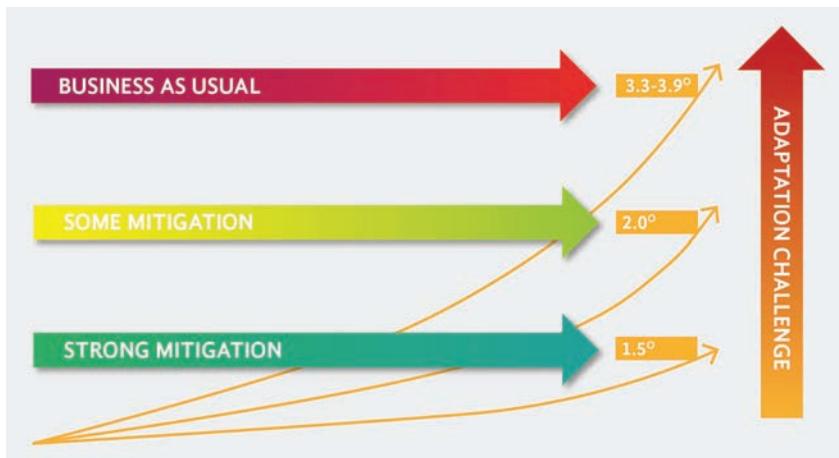
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The relationship between mitigation and adaptation

Even if we substantially reduce our greenhouse gas emissions - **mitigation**, some changes to our climate are already locked in. This means that we also need to prepare for and respond to the impacts of a changing climate - **adaptation**.

The greater the temperature increase, the greater the adaptation challenge.



Climate change impacts in southern Adelaide

The climate is already changing and the impacts are already being felt within the City of Holdfast Bay.



More frequent, long-running and intense heat-waves



More extreme fire danger days



Less rain overall but more intense storms and flooding



Changed growing conditions



Sea-level rise, more coastal erosion, and storm surges

These localised climate impacts present a challenge to our health, natural environments, assets and infrastructure, economy, energy systems, water availability, food security and ability to bounce back after natural disasters.

That's why we need to do everything we can to reduce emissions, build our resilience and get climate change ready.



Our climate change survey

In late 2017, we developed a public survey to understand community attitudes, knowledge and behaviours relating to climate change so that we can deliver services aligned with community needs.

Survey questions were adapted from the CSIRO Attitudes to Climate Change Survey conducted annually for five years between 2010 and 2014. This allows us to benchmark results against national averages and to track changes within City of Holdfast Bay over time.

"We know what to do. All we need to do is do it...

Twenty years ago, we thought that if we got the science right and told people loudly enough, that would be enough. But it wasn't. We're learning that actually, it is people's values and attitudes that shape responses. We would have done things differently if we had realised that...It will be participation that makes us resilient and adaptive."

Professor David Griggs, Monash University
2012 NCCARF Conference



What people told us...

We asked our community for their thoughts on climate change and 184 people responded. Here's what they said...

- 82% believe they are already experiencing the effects of climate change.
- 90% expect to be impacted in the future.
- 88% are personally willing to take action on climate change.
- 22% say they have already taken action.
- 63% would like more support and information about how to prepare and respond to climate change.
- 88% believe that the City of Holdfast Bay should take some responsibility for responding to climate change.
- 61% don't know what the City of Holdfast Bay is doing.





City of Holdfast Bay climate change action

Our community told us they want us to take action on climate change but many don't know what we're doing.

So, here's a snapshot of some of our work strengthening the region so that we can remain vibrant, productive and resilient...

“Individuals can make a big difference, if we all join together. How we get people to do that, I don't know.”



Resilient South

In 2011, we became founding partners of Resilient South - a partnership between councils in southern Adelaide (Onkaparinga, Marion, Mitcham and Holdfast Bay) and state government, building the strength and resilience of our beautiful region.

We have developed a Resilient South Regional Climate Change Adaptation Plan as well as local implementation plans for each Council area. These, and loads of other useful and informative resources, can be downloaded from our website - resilientsouth.com.

We have been widely recognised for our work with Resilient South.

- 2014 Local Government Climate Adaptation Champion, National Climate Change Adaptation Research Facility
- 2015 Best Planning Ideas Award, Planning Institute of Australia
- 2018 Minister For Health And Wellbeing - Excellence In Public Health Award, Government of SA
- 2018 Resilient Australia Government Award, Government of SA, Australian Government, Australian Institute for Disaster Resilience

Resilient
South



Government of
South Australia



CITY OF
ONKAPARINGA



CITY OF
MARION

CITY OF
HOLDFAST BAY

CITY OF
MITCHAM



Heat mapping

Did you know that heatwaves kill more people than any other natural disaster including flooding, bushfires and cyclones?

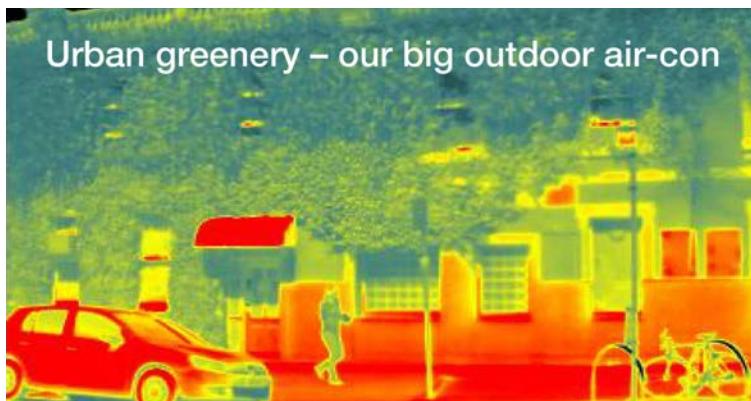
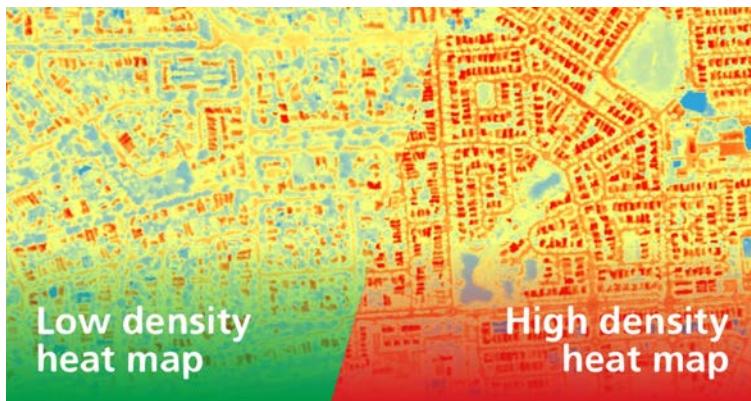
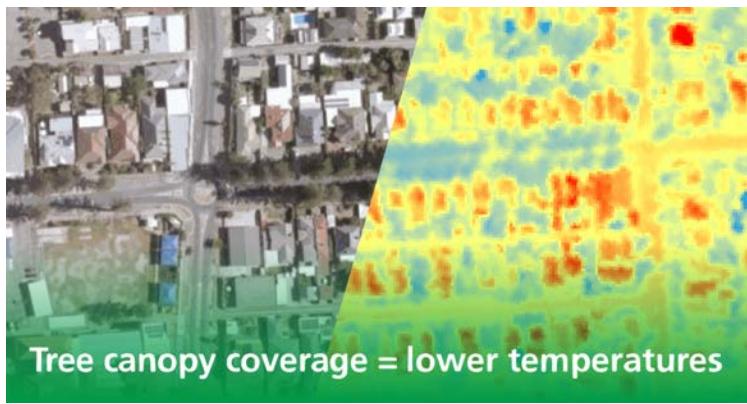
In 2018, we mapped the heat of our residential areas to identify the places most at risk from heat stress. You can check out how heat-exposed your home, business or school is by going to the climate change page on the City of Holdfast Bay website, holdfast.sa.gov.au/climatechange and clicking on the link to the online heat map.

As temperatures continue to rise, there are lots of things we can do to cool our homes, streets and public spaces.

The heat mapping shows us that water and vegetation have a cooling effect. Coastal areas are also cooler than inland areas. We can't all move to the coast, but we can introduce water and vegetation into our local environments.

By identifying hot-spots we can better inform our management decisions relating to tree plantings, urban planning and the health and well-being of our community.







In a Sydney study, a 10% increase in street tree canopy was shown to contribute an average of \$50,000 to the value of adjacent properties.



Trees are cool!

One of the best ways to cool urban hot-spots is to add trees, vegetation and water.

We are committed to increasing tree canopy throughout the City.

Check out the Botanic Gardens' Plant Selector for ideas for your suburb.

plantselector.botanicgardens.sa.gov.au/





Above are photos of our beautiful *Ficus* trees at Torrens Square and Milton Street, Glenelg that were taken at 2.30pm on a hot summers day in December 2019. Our resident Arborist measured the temperature difference between a street with lots of tree canopy and a street with no trees.



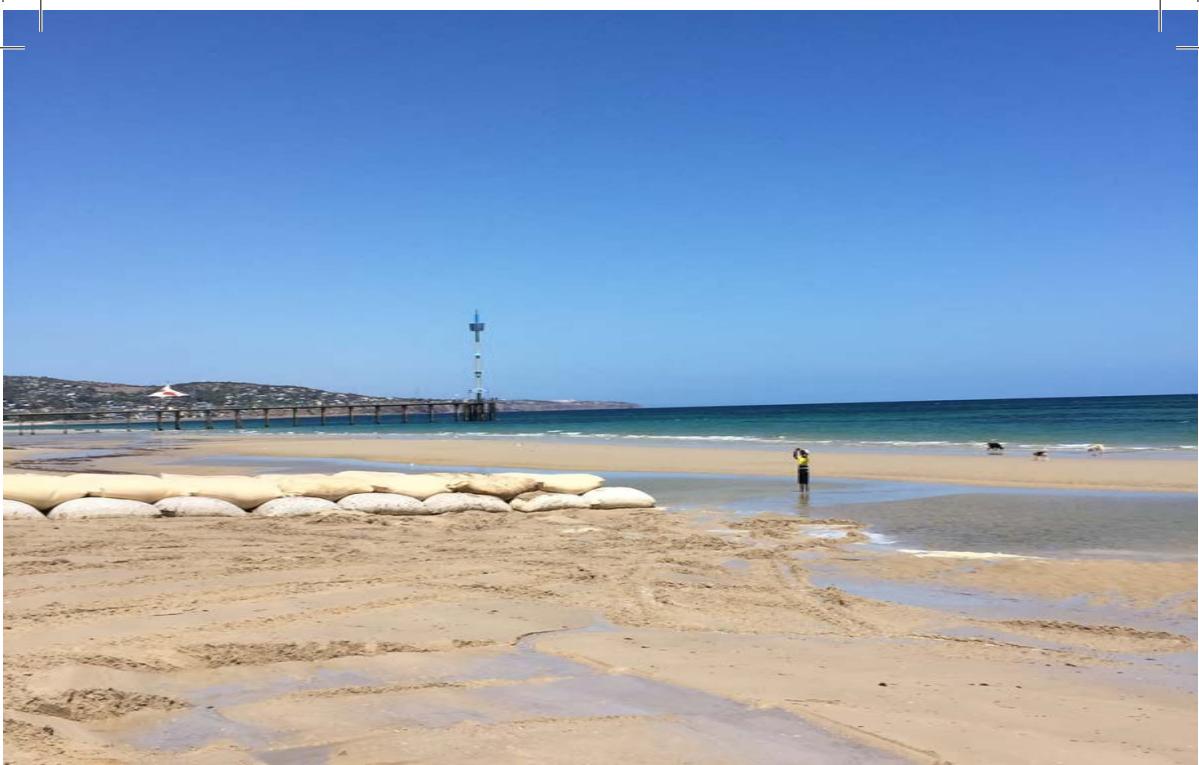
Conserving our natural areas

Conserving our natural areas is essential for mitigating and adapting to the effects of climate change.

Healthy native vegetation habitats contribute to the region's environmental health, resilience and economic prosperity. They provide homes and food for our native species, store carbon and provide critical ecosystem services such as the cleansing of air and water. They also deliver protection from sun, wind, soil erosion and extreme temperatures.

You can help conserve our natural areas by becoming a Holdfast Habitat Hero Environmental Volunteer. A weekly program operates alternating Wednesday and Thursday mornings.

Holdfast Habitat Heroes work in the Brighton to Seacliff dunes, in the Glenelg dunes, Gilbertson, Barton and Pine Gullies, and at the Cedar Avenue reserve. We also support the Friends of Pine Gully, and the Friends of Sturt River. To find out more about applying to volunteer please visit our website: holdfast.sa.gov.au/environmental-volunteering.



Sand groynes and replenishment for healthy beaches

With the help of the State Government Coast Protection Board, six sand groynes have been installed north of Brighton Jetty since February 2017. Sand groynes capture sand moving north through the natural longshore drift process to help widen the local beach profile. These sand groynes have already proven successful in keeping our beaches sandy to help with storm protection. Another three additional groynes will be installed in 2020-2021.

The Coast Protection Board operates a major sand pumping system between Glenelg and Kingston Park, with 16 outlets in between. Sand pumping uses pumping stations and underground pipelines to transfer a slurry of sand and seawater from beaches where sand is building up (Glenelg) to the eroding beaches further south.





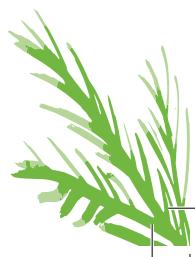
Water sensitive urban design

Water Sensitive Urban Design (WSUD) promotes the sustainable use of water in urban development.

In addition to the many liveability and environmental benefits of WSUD, it's also one of the best ways to cool our cities by retaining trees, vegetation and water in the landscape via green technologies such as wetlands, bio-filters, raingardens, grassed swales, rainwater tanks, tree inlets and permeable paving.

We work closely with developers to encourage them to consider WSUD principles and technologies in the design of new housing developments. We also incorporate WSUD when we upgrade our streets, parks and public spaces.

You can incorporate WSUD into your own home and garden. To learn how, visit Water Sensitive SA, watersensitivesa.com.





Waterproofing Holdfast

As part of our commitment to WSUD, we have developed a WSUD Master Plan outlining key projects to help us use our water sources more efficiently.

Projects include raingardens, increased use of recycled water from the Glenelg North Wastewater Treatment Plant for irrigation of reserves and installing TreeNet inlets across the City.

Raingardens like the one pictured above (top right) in Durham Street, Glenelg use deep-rooted plants and trees to temporarily capture stormwater runoff so it can infiltrate the soil and feed the plant life.

TreeNet Inlets (top left) are designed to take rainwater and return it to the ground, thereby watering the trees, instead of the water pooling on the road or running out to sea. You can see these along many streets in Holdfast Bay, including Partridge Street, Glenelg.

Both of these systems help to reduce the amount of stormwater going into Gulf St Vincent.



Food 2 Greens Program

Did you know if food wastage were a country, it would be the third largest greenhouse gas emitter in the world?

Food scraps and other organic matter sent to landfill produce methane, a greenhouse gas that has approximately 30 times more warming potential than carbon dioxide and is a significant contributor to climate change.

Food scraps placed in your green bin are sent to a commercial recycler where it is turned into compost. This compost is used by farmers to improve soil quality and reduce water use. We have been offering households free kitchen organic baskets and rolls of compostable bags for food scrap disposal in kerbside green bins since 2013.

This service has increased our landfill diversion rate to almost 60%, one of the highest in South Australia.

You can collect a free kitchen organic basket and roll of 75 compostable bags from the Brighton Civic Centre or Glenelg Library.

Find out more about our Food to Green program at
holdfast.sa.gov.au/foodtogreen.



Energy audits of Council buildings

We have undertaken a number of energy audits in recent years on Council owned buildings including: the Brighton Civic Centre, Glenelg Town Hall, Somerton Park Works Depot, both Libraries and Brighton Caravan Park. Recommendations taken from these audit reports have already helped us reduce energy use, particularly at the Brighton Civic Centre where installation of solar panels, LED lighting retrofits and air conditioning upgrades have reduced power consumption significantly since 2012.

Even more energy efficiency measures are going to be implemented in Council buildings in 2020-21.

LED street lighting

In 2018 we started to change over approximately, 2,686 street lights to LED technology. The new LED lights use a fraction of the power at only 14 watts and have already reduced the amount of power used by our street lights by about half.

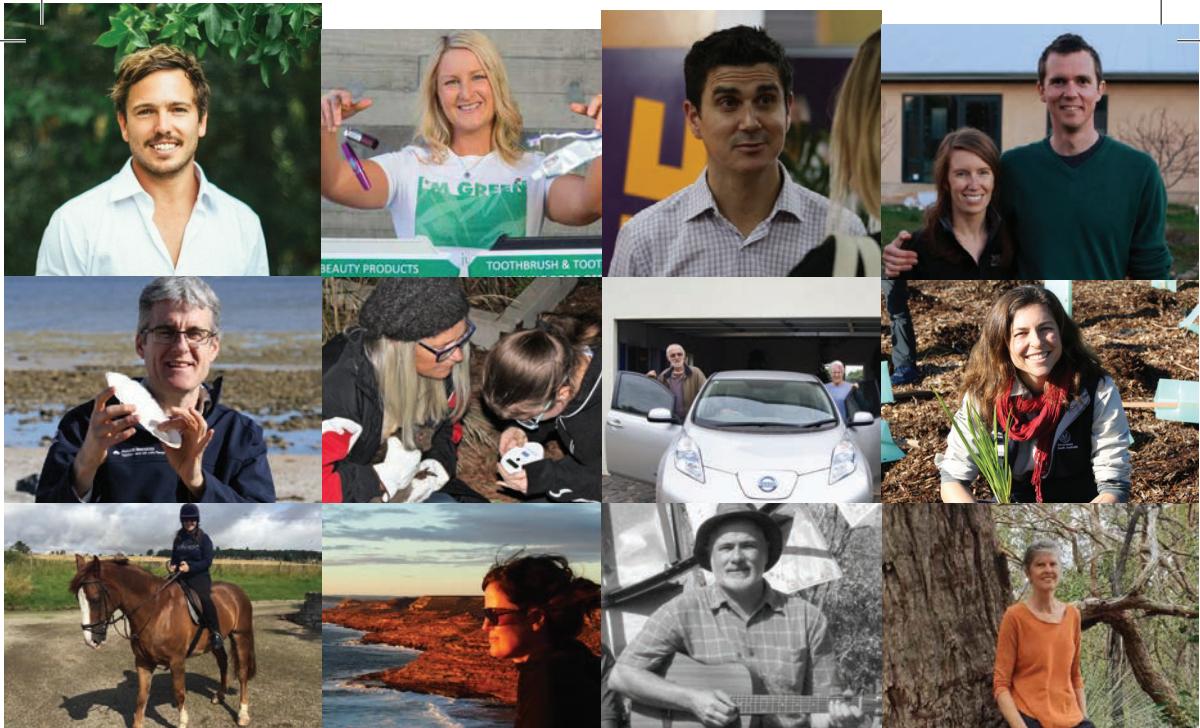


Green Living Subsidies

We offer rebates on a number of products that assist our community to live a greener lifestyle and adapt to our changing climate. Whilst funds last, households and businesses can receive one rebate per financial year on one of the following items:

Worm farm or compost bin	50% up to \$40
Nest boxes for native animals	50% up to \$30
Indigenous plants (local native plants)	50% up to \$30
Rain water tank purchase	50% up to \$100
Plumbing for rain water tank	50% up to \$100
House insulation	50% up to \$100
Bee hotel	50% up to \$30
Modern cloth nappies	50% up to \$100

Find out more information about our subsidies and application form at
holdfast.sa.gov.au/green-living



Resilient South Wall of Fame

To celebrate the people taking action on climate change in southern Adelaide, we've created a Wall of Fame. Check out their stories and get inspired. Or, even better, add your own profile!

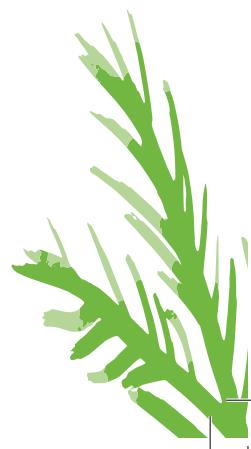
resilientsouth.com/wall-of-fame



Green Living Workshops

Environmental education and engagement with our community is a crucial part of what we do and value as a council. As part of our commitment to fostering a nature-connected community, we deliver a wide range of environmental workshops relevant to climate change, such as Biodiversity in your Backyard, WSUD at home and energy efficiency.

For more information on Green Living Workshops visit our What's On page at holdfast.sa.gov.au/whatson





Greening Our Community Grants

We have provided Greening Our Community grants since 2011. The grants help community groups and schools make our city greener by implementing projects that involve:

- native flora and fauna
- water conservation
- energy reduction or renewable energy
- waste reduction
- sustainable transport
- nature and sustainable living education

Community groups can apply for up to \$5000 matched funding. Between 2012-2019 we have provided grant funding of \$165,843 for environmental projects.





Climate Ready Communities

In partnership with the Red Cross and Resilient South, Climate Ready Communities have provided training and support to our communities around how to prepare for the impacts of climate change.

The Red Cross has developed Climate-Ready Communities: A Guide to Getting Started to support communities to have their own conversation about how the things they value will be impacted by climate change, and what they can do to continue to thrive.

This guide is for anyone wanting to prepare for and adapt to the impacts of climate change, whether they be individuals, a self-organised community group, local council or community service provider.

You can find the guide at redcross.org.au/saclimateready.



Your Climate Actions

Action	Timing	Notes



City of Holdfast Bay
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holdfast.sa.gov.au

