

# South Australia's renewable energy future

In 2015 South Australia was represented at the COP21 Paris Climate Conference, which is considered to be one of the most important climate change meetings in history.

At COP21, South Australia became the first Australian state to sign an international agreement to limit global warmed to under 2 degrees Celsius – the Under2MOU.

To achieve the 2 degree target, it is forecast that the Australian electricity sector will need to reach zero net emissions in the second half of this century.

South Australia has the ability to produce almost all of our energy from clean and renewable sources and export this energy to the rest of Australia.

By supporting a low carbon future our State can be a truly innovative economy and support new industries and new jobs.



## TARGET ZERO

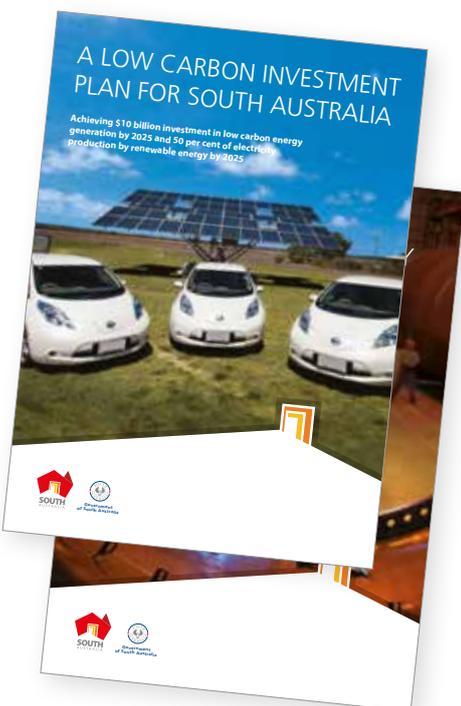
**South Australia is taking a lead in targeting net zero emissions by 2050 and prioritising investment in low carbon industries and renewable electricity generation.**

### We aim to

- Achieve net zero emissions by 2050
- Establish Adelaide as the world's first carbon neutral city
- Achieve \$10 billion in low carbon investment by 2025
- Improve energy efficiency of government buildings by 30 per cent by 2020

### Here's how

- A low carbon investment plan for South Australia
- Supporting new renewable technologies
- Decarbonising our transport network
- Facilitating renewable energy and energy storage
- Investigating opportunities for renewables with storage to offset the use of diesel generation in remote off-grid communities
- Reducing emissions from the government car fleet
- Maximising opportunities for carbon sequestration
- Continuing to improve energy efficiency of our buildings



## THE LOW CARBON INVESTMENT PLAN

The *Low Carbon Investment Plan for South Australia* has set a target of 50 per cent of our electricity production to be from renewable energy by 2025 and also outlines an approach to achieve \$10 billion of investment in low carbon energy generation by 2025.

This plan stands alongside *South Australia's Climate Change Strategy 2015-2050*, which outlines the State Government's aspirations for a low carbon, resilient economy.

South Australia has an international profile as a leader in renewable energy. If South Australia were a nation state, it would rank second to Denmark as the world leader in terms of installed wind power on per capita basis. Supply from domestic solar installations as a proportion of annual energy in South Australia, rival the average levels in Europe.



### SOUTH AUSTRALIA'S ENERGY MIX

In 2015-16, approximately **43% of electricity** produced in South Australia was supplied from renewable energy sources.

Currently, electricity in South Australia is generated from renewable and non-renewable sources: natural gas, wind and rooftop photovoltaics systems.

A relatively small amount of the state's generation supply comes from diesel-fired power stations, which are generally smaller stations that operate during peak demand periods. They are also used to service off-grid remote communities.

With the closure of Port Augusta's power station in May 2016, there is now no coal fired generation in South Australia.

**TO DATE**   
**\$7.1 BILLION**  
HAS BEEN INVESTED IN THE  
RENEWABLE ENERGY INDUSTRY

 **IN 2015-16 APPROX**  
**43% OF OUR**  
**ELECTRICITY**  
WAS GENERATED FROM  
RENEWABLE SOURCES

### SOUTH AUSTRALIA'S LOW CARBON ACHIEVEMENTS INCLUDE:

First state to introduce a regulatory framework specifically tailored to the geothermal industry

Around \$7.1 billion has been invested to date in renewable energy, with approximately 41 per cent of the investment being realised in regional areas

First state to introduce land use planning guidelines for wind farm developments

Nation's first climate change legislation – the Climate Change and Greenhouse Emissions Reduction Act 2007 – embedding an emissions reduction target in law

All council development plans were amended to provide greater certainty in areas where wind farms can be expected, and articulate specific guidelines in relation to visual amenity

In 2015 South Australia commits to a target of net zero carbon emissions by 2050 in the *Climate Change Strategy 2015-2050: Towards a low carbon economy*

A multiple land use framework to allow renewable energy investors to access Crown-owned land leased for pastoral purposes, and to enable wind farms and mining interests to co-exist

**FOR MORE INFORMATION ABOUT SOUTH AUSTRALIA'S LOW CARBON SOLUTION VISIT**

[www.climatechange.sa.gov.au](http://www.climatechange.sa.gov.au)