

# Environment

We aspire to having a net-zero environmental footprint.

## Environmentally conscious natural gas production

At Santos we are committed to preventing harm to the environment and protecting our unique Australian landscape.



**100% of water after treatment**  
in Eastern Queensland is  
beneficially reused



Solid waste sent to landfill has  
**decreased by more than half**  
since 2015



Delivered **23,000 hectares**  
of direct and indirect environmental  
offsets in Queensland



**APPEA Environment & Safety  
Excellence Award** for Santos' Zero  
Waste Well initiative

Santos operates in diverse locations which have unique biodiversity and land features. We have strong processes in place to identify biodiversity and mitigate potential risks.

We employ experts to conduct ongoing measurement of water, waste, air and biodiversity indicators to ensure we meet the high environmental standards we set at Santos.

## Our targets

Our strategy for environmental sustainability is focused on working towards net-zero impact in four areas – water, biodiversity, waste and air.



### WATER

**Net-zero extraction  
from Great Artesian  
Basin aquifers by 2030**



### BIODIVERSITY

**Rehabilitate 100% of our environment  
construction footprint for  
production operations by 2030**



### WASTE – CIRCULAR ECONOMY

**Zero waste  
to landfill  
by 2050**



### AIR

**100% background methane  
gas and baseline assessments  
across all operations by 2030**

## Further information:

[Santos Sustainability metrics](#)

[APPEA's Environment Project Excellence Award](#)

## Net-zero extraction from the Great Artesian Basin aquifers by 2030



Santos recognises water is a precious resource, especially given our long history of working in some of the driest parts of the world such as the Cooper Basin.

We are well on our way to achieving our target of a net zero extraction on the Great Artesian Basin aquifers by 2030. We want to ensure that every drop of water we draw from the aquifer is recovered.



**100% of water after treatment** in Eastern Queensland is beneficially reused



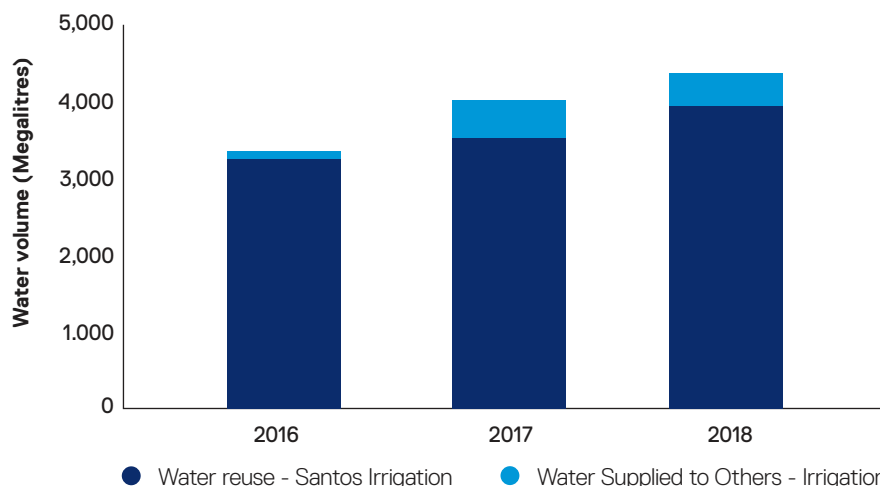
Santos is now the **largest** provider of formation water for irrigation in Australia

We transparently report our use and production of water. We make our groundwater monitoring data publicly available through the Santos Water Portal.

### Industry leading in water reuse

We are industry leading in reusing the water we draw out during production. Santos GLNG beneficially reuses 100% of produced formation water after treatment associated with gas production, to irrigate hardwood plantations, fodder crops for cattle grazing and construction.

Water reuse for irrigation has **increased year on year** to 2018.



Every drop of water we make available from re-use is preventing water being taken from other sources such as groundwater.

### Research partnerships for better water management

We are partnering with the Bureau of Meteorology to share river flow data from four of our gauges in the Cooper Creek catchment.

The partnership will increase the Bureau's network of stream monitoring gauges and assist to provide improved forecasting and flood warnings for local landholders and tourists alike.



## 100% rehabilitation of environmental footprint on production sites by 2030



Santos has a genuine, long-held commitment to look after the environment. This is reflected in the care we take to avoid, minimise or rectify disturbance to land, ecological systems and wildlife.

By 2030, we have committed to rehabilitating 100% of our environment construction footprint for production operations. This means the environment returns to the way it was when we finish construction in an area.





We have committed to rehabilitating **100%** of our environment construction footprint for production operations **by 2030**



Achieved significant conservation gains in Queensland, contributing around **23,000 hectares** of direct and indirect environmental offsets



Santos and its joint venture participants support a range of conservation programs and are protecting endangered species through collaborative biodiversity projects.

<p><b>~23,000 hectares</b> of environmental offsets and conservation gains <b>in QLD</b></p>	<p><b>Over 20,000 endangered Cycads</b> protected through conservation efforts in QLD</p>	<p><b>First</b> conservation project where <b>greater gliders</b> have been recorded to use nest boxes in QLD</p>	
	<p><b>\$14.2M</b> funding to the Australian Institute of Marine Science towards studies on the North West Shelf over 3 years</p>	<p><b>\$65,000</b> per year for the last 10 years funding <b>whale shark research</b> within Ningaloo World Heritage Area</p>	<p><b>\$500,000</b> funding for <b>collaborative studies to support the National Decommissioning Research Initiative</b></p>

## Zero waste to landfill by 2050



We have an ambitious target of reducing our waste to landfill to zero by 2050.

 <p>Solid waste sent to landfill has <b>decreased by more than half</b> since 2015</p>	 <p>General waste to landfill has reduced <b>from nearly 45,000 tonnes to less than 10,000</b> in the last 4 years</p>
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We are improving recycling and minimise waste volumes across all our operating areas. For example, at Moomba we recently completed work on a permanent, fully enclosed sludge treatment plant that will recycle oil.

We are collaborating with industry and investing heavily in research to consider the feasibility of emerging technology and energy sources for waste. We are particularly interested in the reuse of waste brine.

**Winner of the Australian Petroleum Production & Exploration Association Environment Project Excellence Award for Zero Waste Well**

Santos' Zero Waste Well initiative is an Australian first. The Zero Waste Well avoids offsite waste disposal and provides recycled produced water for local irrigation, stock and dust suppression. The program demonstrates a real commitment to minimising the environmental footprint of natural gas.

## 100% background methane gas and baseline assessments across all operations by 2030



We are conducting background methane assessments across our entire operations, and baseline assessments for each of our new development areas.

Measuring background and baseline methane levels is important for accurately understanding our future impact.

We have a 10-year plan to complete all background and baseline assessments, via a research service agreement with CSIRO.

### Santos is creating cleaner skies in Australia and Asia through increased natural gas.

Natural gas is key to meeting growing energy needs of Australia and Asia and improving air quality in our region.