



Australia s outdoor wind power base station environmental protection power





Overview

Offshore wind is important for Australia as it can provide a significant source of clean, renewable energy, helping to reduce greenhouse gas emissions and combat climate change. It also provides reliable energy supply, especially during periods when solar and onshore wind are less.

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We are balancing Victoria's energy needs with environmental goals to take important steps in fighting climate change. Want to learn more?

A healthy environment is vital to Victoria's liveability and sustainability. It provides clean water and air, habitats for species, and is fundamental to many of.

The Korean-owned developer had planned to clear more than 500 hectares of native vegetation next to the Wet Tropics of Queensland World Heritage Area, home to animals including the koala and magnificent brood frog. It had been so fiercely contested that the developer was forced to change the name.

Australia stands on the cusp of a renewable energy revolution, with offshore wind power emerging as a key player in the nation's transition to a low-carbon future. As the country seeks to diversify its energy portfolio and meet ambitious climate targets, the vast potential of its extensive.

Offshore wind energy involves generating electricity from wind turbines in the ocean. These turbines capture wind energy and convert it into electricity, which is then transmitted to the shore via cables under the seabed. Offshore wind energy has been used around the world since 1991 and increases.

Drops in wind generation can be predicted, unlike coal and gas plants that are prone to sudden shutdowns and provide zero warning to grid operators. From 28 January 2023 to 20 January 2024, wind provided 15% of Australia's electricity and this will only grow as more wind farms are built. How.



Some states are developing specific regulatory frameworks for renewable energy projects within their coastal waters. In August 2022, the Minister for Climate Change and Energy Chris Bowen identified 6 areas for the potential development of offshore wind energy projects and to date, 3 regions have. Does Australia support offshore wind?

The Australian government is actively supporting the offshore wind sector. Energy Minister Chris Bowen has emphasised the importance of offshore wind in Australia's renewable energy future, stating that it could provide up to 20% of the country's energy needs.

What are Australia's offshore wind projects?

As of early 2025, a pipeline of active offshore wind projects are in various stages of development (as detailed in the table below). These projects represent a substantial potential contribution to Australia's renewable energy capacity and signal the country's commitment to harnessing its offshore wind resources.

What regulations govern offshore wind development in Australia?

The main regulatory framework for offshore wind developments in Australia is currently comprised of the Offshore Electricity Infrastructure Act 2021 (Cth) (OEI Act) and the Offshore Electricity Infrastructure Regulations 2022 (Cth) (OEI Framework).

Could offshore wind power help Australia achieve a low-carbon future?

Australia stands on the cusp of a renewable energy revolution, with offshore wind power emerging as a key player in the nation's transition to a low-carbon future. As the country seeks to diversify its energy portfolio and meet ambitious climate targets, the vast potential of its extensive coastline is coming into focus.



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The regulatory framework for offshore wind projects in Australian

Proposed offshore renewable infrastructure projects are likely to require referral, assessment and approval under Australia's primary national environmental law, the Environment Protection and ...

Federal environmental laws 'single biggest challenge' for ...

Any development that could impact, or is seeking to clear, the habitat of threatened species must be assessed under federal environmental protection laws called the Environment ...



[How offshore wind works and can benefit Australia](#)

Offshore wind is important for Australia as it can provide a significant source of clean, renewable energy, helping to reduce greenhouse gas emissions and combat climate ...



Wind Farms in Australia , Australian Conservation Foundation

Australia's plants and animals will have no hope in a world that's 2 degrees hotter, so, well-planned wind farms are critical to phasing out coal and gas



and providing wildlife with a ...



[Wind energy's role in Australia's low-carbon future](#)

Discover the role of offshore and onshore wind farms in Australia's energy transition and their impact on environmental ...

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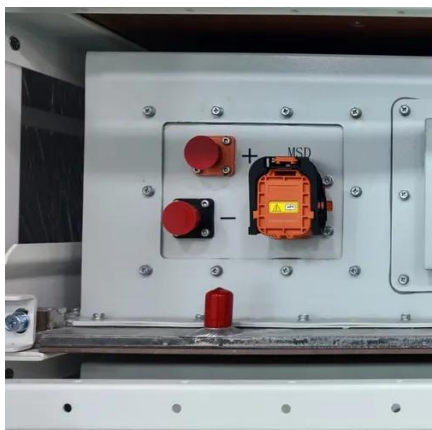
Offshore wind and the environment

The Australian Government has published its own guidance on environmental factors for offshore wind projects under the Environment Protection and Biodiversity ...



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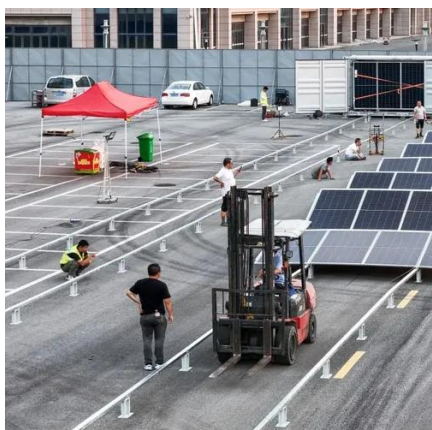


Offshore Renewable Energy , AIMS

Offshore wind farms can generate a significant amount of reliable, secure and affordable electricity. Harnessing offshore wind into energy will contribute to Australia achieving net zero ...

[Wind energy's role in Australia's low-carbon future](#)

Discover the role of offshore and onshore wind farms in Australia's energy transition and their impact on environmental sustainability. Learn how wind farms contribute to restoring ...



Australia's Offshore Wind Revolution: Progress, Potential, ...

As the country seeks to diversify its energy portfolio and meet ambitious climate targets, the vast potential of its extensive coastline is coming into focus. This paper explores the current status, ...



Building an offshore wind industry

There are now 6 declared offshore wind areas in Australian Commonwealth waters, located off Victoria, New South Wales, Western Australia and Tasmania. These areas have ...



[Federal environmental laws 'single biggest ...](#)

Any development that could impact, or is seeking to clear, ...

New Federal Environmental Impact Assessment Guidance for ...

Proponents of offshore wind projects should familiarise themselves with the key factors that are likely to be impacted in some way by their proposed offshore renewable ...



New Federal Environmental Impact Assessment Guidance for offshore wind

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