

LEEWIN OFFSHORE WIND FARM

MARCH 2024

PROJECT OVERVIEW

AN OFFSHORE WIND FARM TO POWER THE SOUTH WEST

The Leeuwin Offshore Wind project involves the development, construction and operation of a world class windfarm in an area about 130 km south of Perth, between Mandurah and Bunbury.

Leeuwin Offshore Wind is a wholly-owned subsidiary of Copenhagen Energy, a Danish renewable energy developer with significant experience in delivering offshore and onshore wind and solar photovoltaic developments in Denmark and throughout Europe.

As leaders in renewable energy, we bring considerable experience working across environmentally sensitive areas in global projects and are well positioned to help Western Australia fast track its path to decarbonising and easing reliance on fossil fuels.

The windfarm will support Australia's commitment to reduce greenhouse gas emissions by 43% by 2030 and the WA Government's target of enhanced climate resilience and net-zero greenhouse gas emissions by 2050.

Support Australia's commitment to cut greenhouse gas emissions by 43%

ABOUT THE PROJECT

The windfarm will have up to 200 wind turbines and substation platforms within Commonwealth waters. The generated electricity will be brought onshore through State waters to be connected into the South West Interconnected System (SWIS).

Once commissioned, the windfarm will operate 24 hours a day, 365 days a year, for up to 50 years.

Each turbine is expected to deliver between 15 MW and 25 MW. The size of each of these turbines will be 268m to 385m tall, with a rotor diameter of 240m to 320m. The definitive number, final location/layout and ultimate turbine and platform specifications will be determined as the project progresses.

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While the turbines will be visible from the shore, the final positioning of the turbines and the substation platforms has not been determined and will only be finalised after extensive consultation.

OFFSHORE WIND

Offshore wind is expected to grow exponentially over the next decade and is one of the pillars towards a net-zero society. Offshore wind projects can generate much more electricity with higher efficiency than typical onshore wind farms given the quality of Australia's offshore wind resources.

Investment in offshore wind technology in the past few decades means it is now much less expensive to build offshore windfarms.

Typically, environmental impacts offshore are less than environmental impacts onshore.

ECONOMIC BENEFITS

BENEFITS*

14,500*

JOBS DURING ALL THE CONSTRUCTION PERIOD

5,000*

DIRECT JOBS

9,500*

INDIRECT JOBS

200*

JOBS DURING OPERATION (per year)

CONTRACTS

(DIRECT AND INDIRECT) WITH LOCAL BUSINESSES

*Job estimates are for each CW of power

The project will deliver a range of benefits to the South West and Peel community including:

- Direct and indirect employment opportunities and skills development
- Benefits to State and regional economies
- Positive impacts on the local community

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For every 1GW of power, the project will deliver local jobs with an estimated 14,500 jobs during construction, including 5,000 direct jobs and another 9,500 indirect jobs.

Around 200 jobs will be required during operation as well as more indirect employment.

There will be a range of jobs including engineers (electrical, mechanical, environmental and computer), technology specialists, fabricators, quality, health and safety, transport, turbine technicians, scientists, operations and maintenance and data analysts.

An ongoing program of maintenance activities will be implemented to support the operation of the windfarm, and this will also help to create a significant number of new jobs.

In addition to local jobs, there will be opportunities to support economic prosperity for the South West and Peel regions through upskilling and building local capability, supporting local businesses through direct and indirect contracts, long-term rates revenue for local government and potential community partnerships.

PROTECTING THE NATURAL ENVIRONMENT

Protecting the natural environment and mitigating environmental impacts is central to this proposal and we will be required to meet statutory, regulatory and administrative requirements set by both State and Federal Government environmental agencies.

We will be conducting a range of environmental impact studies and will apply stringent mitigation measures to preserve the local marine and onshore environment.

In addition to engaging leading environmental scientists to undertake rigorous peer reviewed research to determine potential environmental impacts, we will also research opportunities for cost-effective innovation and development opportunities to minimise wildlife,

CO-EXISTING WITH LOCAL FISHING ACTIVITIES

In other parts of the world, recreational and professional fishing activities and windfarms co-exist. As the turbines are 1-2 km apart, recreational fishers will be able to sail between the turbines, meaning current boating activity will not be impeded once the turbines are fully operational.

There will be a small exclusion zone around each turbine and transfer station to ensure community and maritime safety, and there will also be small exclusion zones around individual turbines during construction, in line with safety and maritime requirements.

Consultations with recreational and professional fishing groups will help to ensure boating and fishing activities are not affected.

TIMING AND NEXT STEPS

In 2022, significant progress has been made in conducting offshore and technical studies aimed at gaining a deeper understanding of the area and its suitability for our project.

Our commitment to engaging with the local community and stakeholders began early on and will remain ongoing. This ongoing dialogue is essential to comprehending local perspectives and priorities.

At present, our primary focus is directed towards preparing the Feasibility license application, following the proposal of the offshore wind area in WA.

Construction of the wind farm will take approximately two years and is expected to commence in the first quarter of 2029, with first power expected in 2030, subject to the project receiving the necessary government approvals.

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