



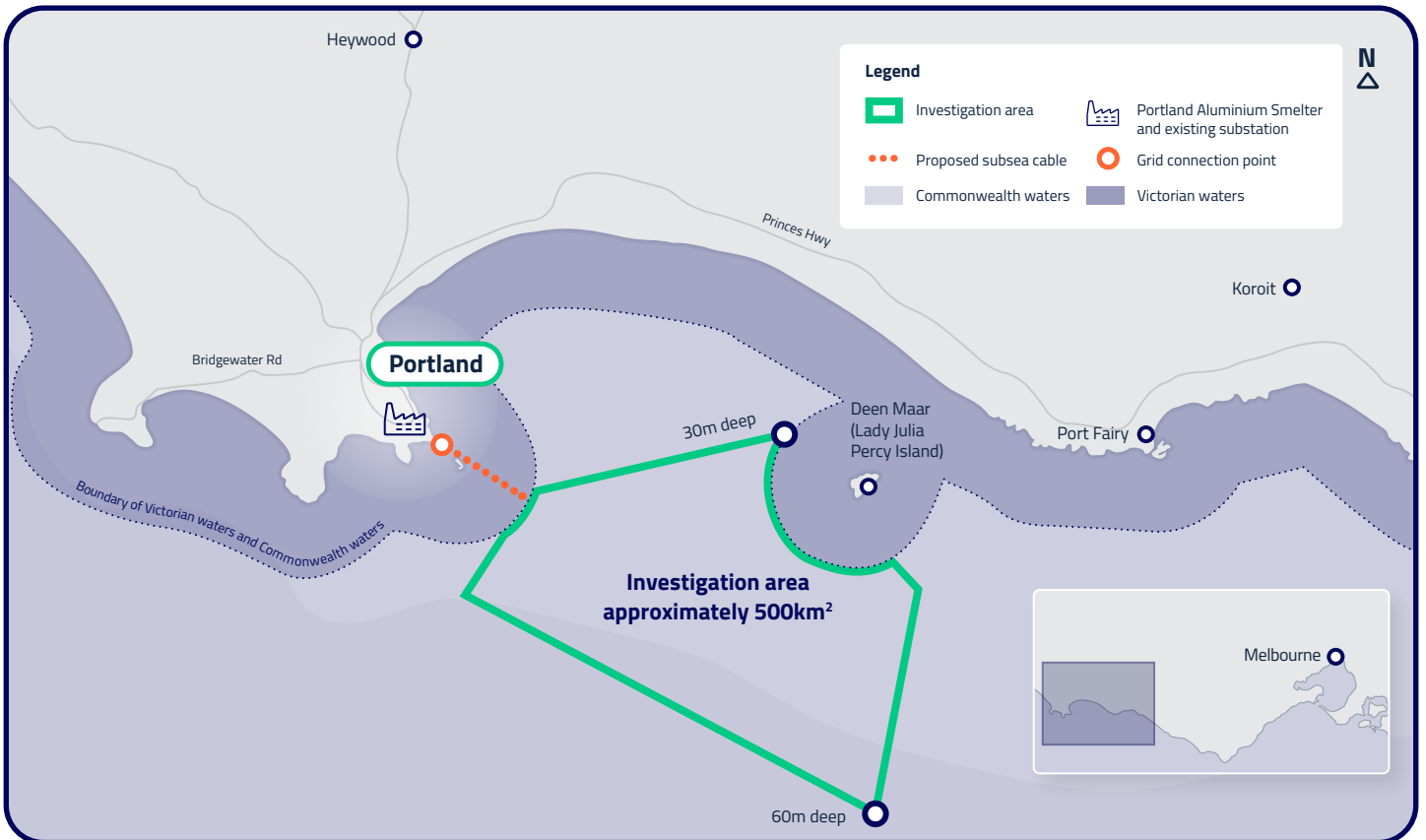
## Quarterly Project Update

April 2022

Alinta Energy is exploring the potential for an up to \$4 billion offshore wind farm to be developed to supply the Portland Aluminium Smelter and east coast electricity grid.

### Fast Facts

- Up to \$4 billion investment
- Around 1000 MW (1 GW)
- About 10km from the Portland shoreline
- 500km<sup>2</sup> investigation area identified
- Potential to provide the Portland smelter with up to 100% renewable energy
- Potential high voltage grid connection at the smelter
- More than 1000 jobs in construction and 100 in operations



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# Why offshore vs. onshore?

There are pros and cons to both offshore and onshore wind farms. We are investigating offshore because:

**There is less impact:** Offshore turbines, although they do have some impacts, are further away from people's homes and land-based activities.

**The wind is better:** Offshore wind is generally stronger, more consistent, and uninterrupted by physical obstacles like hills. This means more energy, that's more reliable and predictable, can be produced.

**We can use bigger turbines:** They can be built taller than those onshore and there is more flexibility in where they go, which means they can harness more wind energy.

**It has great potential:** Many of the best performing onshore sites have already been developed, and offshore wind can deliver more of the renewable energy Australia needs.

# Why Portland?

We assessed various sites around Australia against specific criteria and Portland was the most attractive option because:

**It's really windy,** which means we can harness more wind energy.

**The ocean is shallow** at distances between 10km – 30km from the shore, so it's easier to build in and yet still quite far from the coastline.

**There is an existing substation at the smelter** that could potentially be connected to, so we wouldn't need to build long transmission lines over private land to access the grid.

**The Portland Aluminium Smelter is a potential customer** and working with us to establish the feasibility of the project.

# What's happening now?

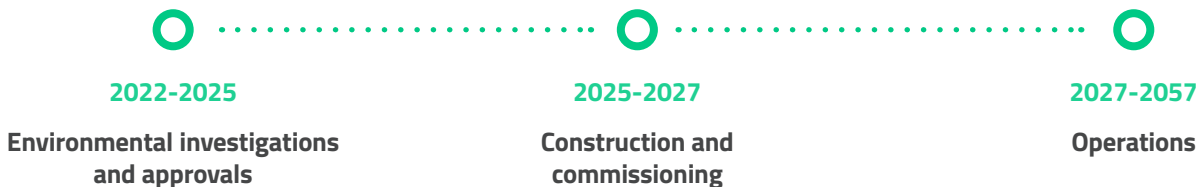
**Community engagement:** It's early but we are starting to engage the community. We know the area has social, cultural, environmental and commercial uses and values that need to be thoroughly investigated and discussed. If you want to get involved, or know more about our early investigations, please contact us on **1800 008 335** or [info@spinifexoffshore.com.au](mailto:info@spinifexoffshore.com.au). Otherwise look out for a series of local community and online updates and discussions in the coming months.

**Wind monitoring:** Existing data tells us the region's offshore wind is high quality, but we need to undertake wind monitoring to verify if that's also the case at the site. We are using a coastal based Light Detection and Ranging (LiDAR) system that measures wind speed and direction up to 30 kms away and at several heights. The data will help us estimate the annual energy that the site could produce to supply the customer.



1 of 2 LiDAR machines shortly on its way to be installed in Portland

## Indicative timeline



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Australian Renewable Energy Agency

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