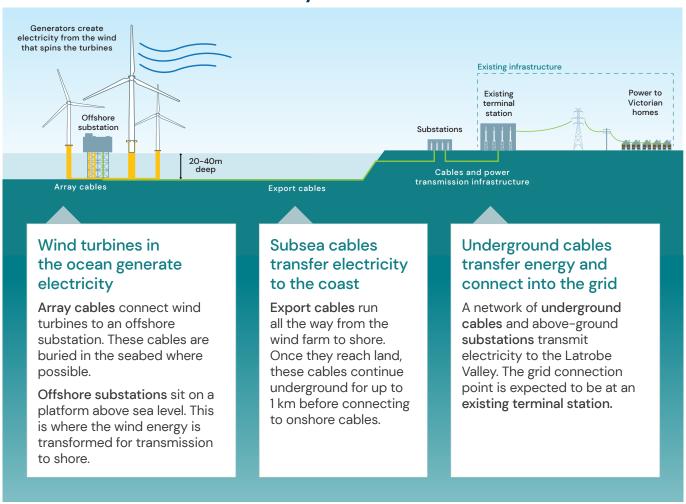


Transmission

The Star of the South project includes a transmission system of cables and substations. It would transmit electricity from wind turbines off the south coast of Gippsland to the Latrobe Valley and into the grid to power Victorian homes.

Parts of the transmission system



We're committed to using underground cables, unless it's not technically feasible or where overhead lines would have lower impacts. While it's more costly to construct underground cables, we believe there are many other benefits for the community, the landscape and the environment.

Transmission investigation area



Facts and figures



HVAC

Electricity will be transmitted in High Voltage Alternating Current (HVAC) from the offshore wind farm to the grid connection point. HVAC transmission is common around Australia and the world.



Onshore cables 75 km, mostly underground

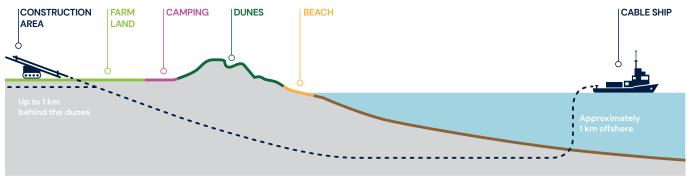
A Offshore transmission investigation area

Subsea cables connecting the wind farm to land would be located in this area. This area is still under investigation. The final route will depend on:

- Offshore substation locations a direct route from substation to shore is preferred
- Any sensitive reefs and marine habitat will be avoided where possible
- Seabed conditions can affect cables being laid in particular areas.

B Shore crossing at Reeves Beach

The subsea cables would come to shore around Reeves Beach. We would use a no-trench construction method to avoid disruption to the beach, dune system, coastal flora and fauna, and shallow marine areas. The subsea cables connect with the land cables at the onshore construction area.



Artists impression, not to scale

C Land route

The 75 km land route passes through mostly agricultural and plantation land. The route shown on this map is a 3 km-wide investigation area. We'll work with landholders and narrow this down to a final alignment 30-40 m wide. Some additional space would be required during construction.

Following Basslink

Around 35 km of the land route may follow Basslink – an existing, high voltage overhead transmission line. We're working with Basslink to determine how much space is needed between their overhead lines and our underground cables, and if it's possible to share some of their existing easement.

F Grid connection in the Latrobe Valley

The Australian Energy Market Operator (AEMO) will decide where in the Latrobe Valley we're able to connect into the grid.



Offshore subsea cables 20-40 km, depending on the final offshore cable route



Onshore substations Up to 4, above ground, locations yet to be confirmed



Offshore substations Up to 4, above sea level, locations yet to be confirmed

Options assessment - what we found

We assessed three possible route options.

McGaurans Beach, Giffard,

Hiamdale, Latrobe Valley

After analysing the pros and cons of each option, we found that Corridor B (Eastern) performs best against a range of important criteria – particularly environment, constructability and technical. This is the route we'll progress and seek approval for.

Here's an overview of our option assessment findings.

Option Pros Cons Shortest, most direct route Significant vegetation impacts, Corridor A (Western) for efficient transmission of greatest potential to impact on biodiversity and habitat electricity Lowest cost More community concerns raised, mostly about Shorter offshore cable route has environmental issues less potential for marine and coastal impacts Some construction challenges due to confined and remote area Some landholder concerns raised Reeves Beach, Woodside, Old Rosedale Road, Hiamdale, Latrobe Valley Strong community support for Longer onshore route means Corridor B (Eastern) following Basslink as much as some minor losses of electricity possible during transmission Avoids highly vegetated areas Some landholder concerns for reduced impact on trees, raised biodiversity and habitat More costly than Corridor A ✓ Fewer constraints provides flexibility for system design and construction Fewer community concerns On balance, this option has raised the best overall outcome Shorter offshore cable route has and will be progressed Reeves Beach, Darriman, Giffard less potential for marine and through planning and design West, Hiamdale, Latrobe Valley coastal impacts Best safety outcomes expected Highest technical difficulty Corridor C (Northern) Strong community support for following Basslink as much as due to complex construction possible conditions at shore crossing Generally avoids highly Longer offshore route has greater vegetated areas for reduced potential for marine impacts impact to trees, biodiversity and Longer offshore route means habitat some minor losses of electricity during transmission

Highest cost

 Some landholder concerns raised
More known sites of Aboriginal cultural heritage significance

which could be affected

Options assessment - how we selected a route

To select the most suitable route we considered:

- Findings from engineering, environmental and heritage studies
- Feedback from landholders and local communities
- Cost of electricity
- Advice from technical specialists.

Here's the key steps in our options assessment process.

1 Option identification

An initial study identified three route options which could be suitable for underground transmission cables. This study considered:

- Constraints areas to avoid such as hilly ranges, areas of environmental and cultural significance and towns.
- Opportunities potential to co-locate with existing infrastructure such as roads and powerlines to reduce our footprint.

2 Consultation

We discussed the options and asked for feedback from:

- · Landholders and asset owners along each route
- Local community members and groups
- Organisations with a role in project assessment and approvals
- Environment and other special interest groups.

People asked us to select a route which minimises impacts to the land and marine environment, farmers and local communities. A consultation report outlining what we heard is available at starofthesouth.com.au.

3 Desktop studies

Specialists completed desktop studies to identify potential risks, issues and benefits of each route option.

4 Site investigations

Specialists went out on the ground to 'reality check' information collected so far, test assumptions and collect important data. Site investigations included:

- · Soil testing
- Feature survey
- · Flora and fauna surveys
- · Marine ecology surveys
- · Seabed studies.

5 Options assessment

All information was considered through a 'Multi Criteria Analysis'. This is an evidence-based approach which evaluates each option against several important criteria, to determine which one performs best overall.

These key criteria were considered in our assessment.





Next steps

Working with landholders

An important next step is working with landholders whose property may be suitable to host the transmission infrastructure.

We'll work together to fine-tune the alignment, discuss compensation and plan ways to minimise impacts to their land.

Site investigations and engineering design

Our engineering team will develop a design for the transmission system. This will involve site investigations to better understand soil and groundwater conditions and to address any technical challenges.

Environmental assessment and approvals

Potential impacts from the project's construction and operation, including the transmission system, will be considered through comprehensive environmental assessments.

This involves ongoing environmental monitoring on land and at sea, and assessment of matters including ecology, water, Aboriginal cultural heritage, historic heritage, agriculture, noise, electromagnetic fields and traffic.

Get involved

We're keen to hear from you as we continue investigating the Star of the South project. There'll be many opportunities to get involved. We'll consult with project stakeholders, including local communities, to seek feedback and local knowledge. We'll use what we hear to inform ongoing project development and assessments.

To find out more about the Star of the South project and register for updates: