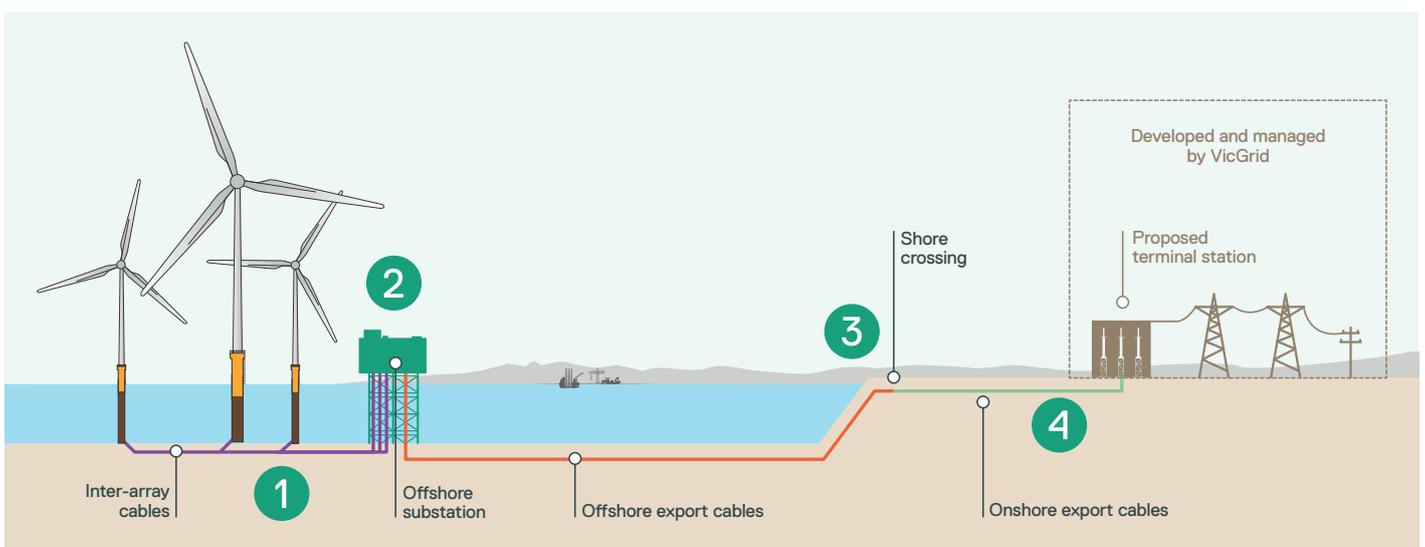


# TRANSMISSION



## GETTING POWER TO HOMES

Star of the South includes a transmission system to collect and transmit electricity from turbines to the grid. Here's how it works.

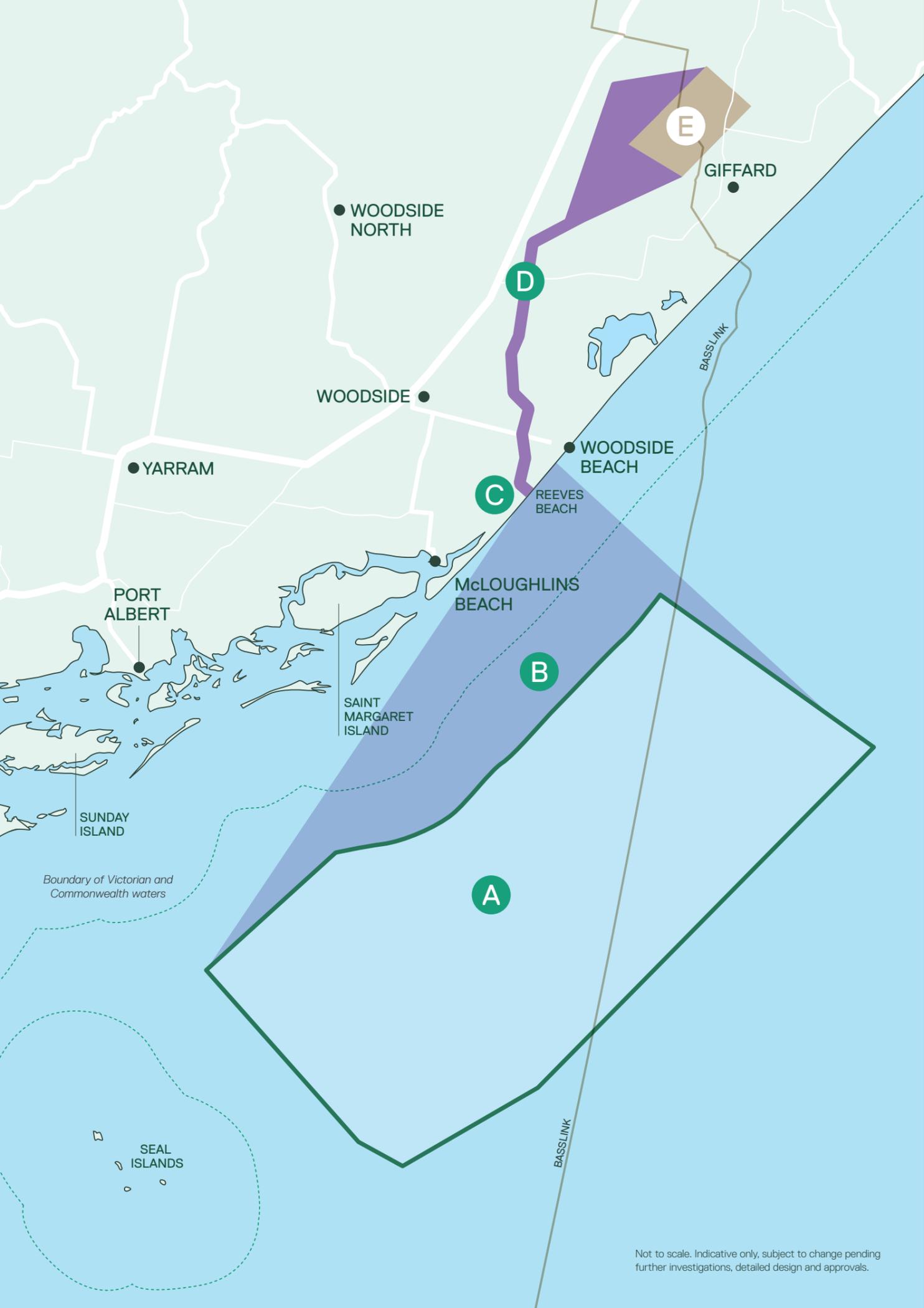


**STEP 1**  
Electricity generated by the turbines travels through **inter-array cables** which connect the turbines to offshore substations.

**STEP 2**  
**Offshore substations** sit on a platform above sea level. This is where electricity is transformed for transmission to shore.

**STEP 3**  
**Offshore export cables** run from the offshore substations to land. They **cross the shore** underground before connecting to onshore cables.

**STEP 4**  
Underground **onshore export cables** connect to a proposed VicGrid terminal station.



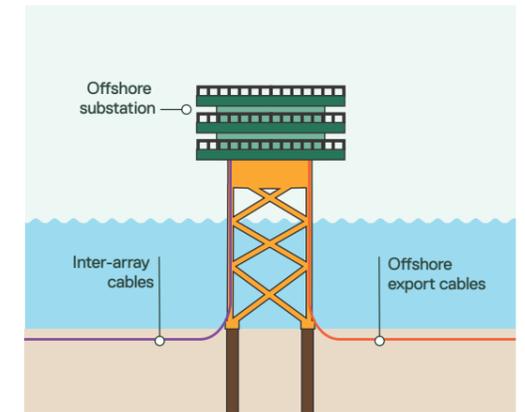
Not to scale. Indicative only, subject to change pending further investigations, detailed design and approvals.

## TRANSMISSION SYSTEM

The exact route and extent of transmission infrastructure is dependent on the final project size, further site investigations and design, ongoing consultation, and approval requirements.

### A Wind farm area

- Inter-array cables transmit electricity from turbines to offshore substations at 66 kV
- Inter-array cables buried at least 0.6 m in the seabed where possible
- Up to 5 offshore substations collect electricity for transmission to shore
- Cables and substations positioned to avoid high profile reefs



Not to scale, indicative only.

### B Offshore route

- Up to 8 offshore export cables transmit electricity to shore at up to 275 kV
- Cables buried at least 1 m in the seabed where possible
- Cable routes to avoid high profile reefs
- Anchoring is typically avoided above cables for safety and to avoid damage

Note: Map shows investigation area, route refinement is ongoing.

### C Shore crossing

- Offshore export cables cross the shore under Reeves Beach
- Installation involves drilling underground to avoid disturbance to the beach and dunes above
- Offshore and onshore export cables connect at a transition joint bay in nearby farmland

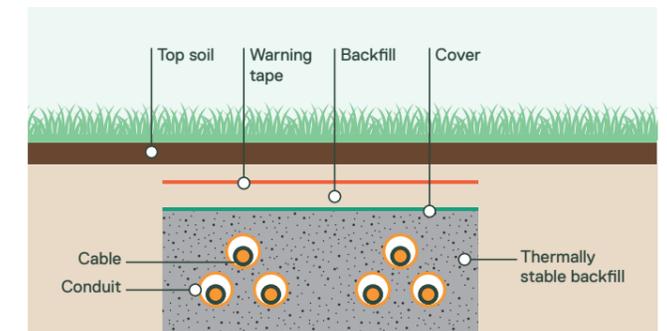


Not to scale, indicative only.

### D Land route

- Around 30 km from Reeves Beach to Giffard
- Underground cables transmit electricity at up to 275 kV
- Cables buried around 1 m deep
- Trenchless crossings may be used under some roads or waterways
- Many farming activities can continue within the 40 m easement during operations

Note: Map shows investigation area, route refinement is ongoing.



Not to scale, indicative only.

### E Proposed VicGrid terminal station (study area)

- To be developed and managed by VicGrid
- Includes infrastructure needed to connect offshore wind projects to the grid
- We'll work with landholders and VicGrid to determine how our land route connects into the hub



## KEY STEPS



## MANAGING CONSTRUCTION

A range of approvals are needed for Star of the South to proceed to construction.

We would carefully plan and manage construction to minimise any unavoidable disruption.

Potential impacts are being examined through detailed environmental assessments and government approval processes.



Management plans will be developed in consultation with Traditional Owners, landholders, councils, fishers and other stakeholders, detailing strict controls to reduce disruption, keep people safe and protect the environment.



Watch our videos to see how cables are installed underground.

A PROJECT BY



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We acknowledge the people of the Gunalkurnal nation as the original custodians of Country and pay respect to Elders past and present.

