

# Central West Orana Renewable Energy Zone Network Upgrades

## Transposition Project

FACT SHEET | SEPTEMBER 2025



Transgrid will carry out upgrades to its transmission network at six sites in the State's Central Tablelands and Hunter Region to support the NSW Government's delivery of the Central-West Orana Renewable Energy Zone (CWOREZ).

### Why is the Transposition Project needed?

Transgrid commissioned a study to understand the impact of the increased energy generated by the CWOREZ on the existing transmission network. The study found that the forecast level of voltage unbalance will be too high. To mitigate this unbalance, transposition of the transmission lines was recommended at regular intervals along the alignment before the CWOREZ generation started. The Transposition Project (the Project) will strengthen and reinforce the grid and help ensure that the power can be reliably moved to consumers.

### What are the Project benefits?

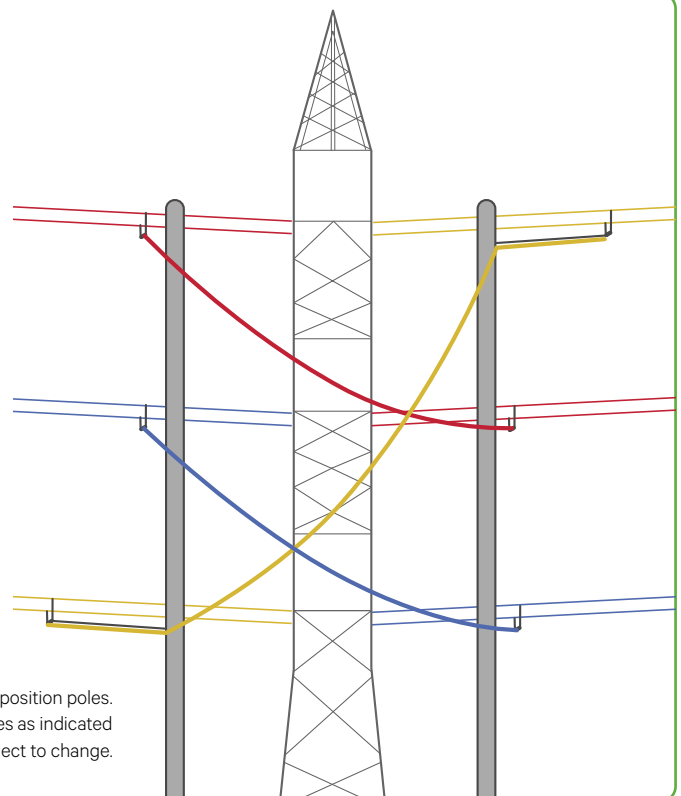
- New local jobs – opportunities for local workers and businesses during construction
- Cheaper electricity – improving the affordability of electricity for consumers by increasing bulk supply and driving down wholesale electricity prices
- Improved reliability – through strengthening and reinforcing the grid in the local region
- Reduced emissions and a greater mix of renewable energy in the National Electricity Market.

### What are we doing?

At each of the six sites, we will install two 50m high (approximately) steel poles on each side of the transmission structure to allow us to change the position of the transmission line cables on the structures. At the Bayswater and Mount Piper transmission substations, we will be completing work to allow for the transmission line cables to be put in the order required at the substation.

At each of these sites, we are working with the landowners to arrange access and minimise potential impacts of the proposed works.

As this is the first time transposition of existing 500 kV transmission lines has been completed in NSW, the Project will also include the construction of a trial site.



Side view of lattice tower surrounded by steel transposition poles. The poles are used to change the configuration of electricity lines as indicated by the yellow, blue and red lines. Indicative diagram, subject to change.

### What is a Renewable Energy Zone?

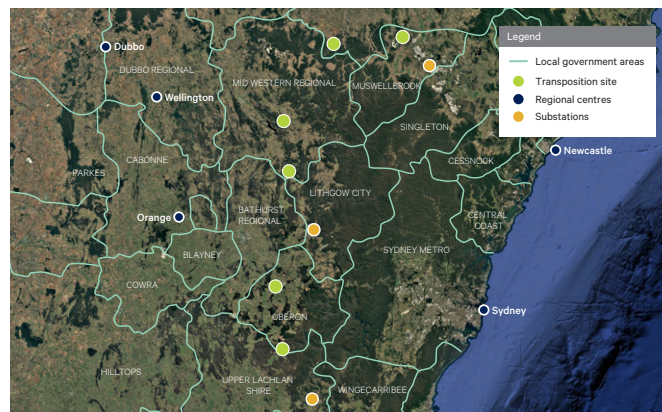
Renewable Energy Zones are modern-day power stations. They combine renewable energy generation such as wind and solar, storage such as batteries, and high-voltage poles and wires to deliver cheap, reliable and clean electricity for homes and businesses in NSW.

## Project location

The Project is located at six existing transmission towers in NSW. These towers are on private properties in Running Stream, Wybong, Merriwa, Essington, Paling Yards and Portland. There will also be some work where the transmission lines enter the Bayswater and Mount Piper Substations, and a trial of the construction method at Armidale Substation.

## What is happening?

Transgrid is working with affected landowners to arrange access to their properties for environmental studies including heritage, biodiversity and to modify the easements to accommodate the new infrastructure.



## Next steps

We are completing the specialist studies that will form the Review of Environmental Factors (REF). The REF is the assessment that will be used to get the environmental approval from Department of Planning Housing and Infrastructure for the Project. We are also continuing to engage with affected landowners, local councils and Local Aboriginal Land Councils.

## Key project dates

Environmental surveys started for the private property transposition sites

**June 2025**

REF submitted for exhibition

**Mid 2026**

Transposition construction starts

**Early 2027**

Trial construction starts  
**Early 2026**

Trial construction ends  
REF Determination  
**Late 2026**

Transposition construction ends  
**Early 2029**

## How can you be involved?

Transgrid recognises the vital role that landowners and the community have in the planning and delivery of our projects. We are committed to talking to the community to help us shape the best possible solution.

We encourage you to:



email us on [network.solutions@transgrid.com.au](mailto:network.solutions@transgrid.com.au) or call our community hotline 1800 222 537



visit our [webpage](#) for project updates



request a meeting

## About Transgrid

Transgrid operates and manages the high-voltage network in NSW and the ACT.

We operate a safe, reliable and efficient high-voltage grid that connects electricity generators to one in three Australians.

We are building the future grid to enable greater renewable integration and drive down wholesale electricity prices.

## Connect with us

Transgrid is committed to working with landowners and communities through the development of the Project. Please connect with us for more information.



**1800 222 537** (free call)  
[network.solutions@transgrid.com.au](mailto:network.solutions@transgrid.com.au)

Find out more at:  
[transgrid.com.au/wallerawang](https://transgrid.com.au/wallerawang)

**Privacy statement:** Transgrid recognises the importance of privacy and protecting the personal information it holds, uses and discloses in line with the Privacy Act. It is committed to protecting personal information and handling personal information responsibly and in accordance with its obligations.