

Liverpool Range Wind Farm

Fact Sheet
RTS Project

Transmission Line Fact Sheet



In September 2022 a modification application was submitted to the Department of Planning and Environment (DPE) for the Liverpool Range Wind Farm (Mod-1 Project). In response to submissions received during the public exhibition period we have made a number of changes to the Project. These changes are reflected in the Response to Submissions (RTS) Report and the Amendment Report. The reports will be assessed by DPE who will then make a determination on the application. These reports contain information about how the RTS Project is different from the Approved Project, and how these changes would affect the environment and how they can be managed.

This factsheet provides further information on the transmission line that forms part of the RTS Project and which travels through the wind farm before extending approximately 50 km to the approved connection point at Ulan. It also provides detail on the Central-West Orana Renewable Energy Zone (CWO REZ) Transmission Line project proposed by the NSW Energy Corporation (EnergyCo). Finally, it explains what we are proposing to do and how we will work with the community to manage potential impacts. The impacts presented are a worst-case scenario. With the measures proposed, the RTS Project's impacts should be reduced or mitigated.

EnergyCo and the Central-West Orana Renewable Energy Zone (CWO REZ)

EnergyCo is coordinating the delivery of the CWO REZ, and are developing the CWO REZ Transmission Line project which includes a 330 kV transmission line between Merotherie Energy Hub and the Liverpool Range Wind Farm project. EnergyCo's proposed transmission line corridor can be viewed here: EnergyCo's Interactive Map: <https://caportal.com.au/energyco/rez>

EnergyCo and its delivery partners are responsible for all required approvals and for the construction and operation of the CWO REZ Transmission Line. At present EnergyCo expects that the Environmental Impact Statement for the CWO REZ Transmission Line (and other transmission infrastructure) will be submitted in late 2023.

EnergyCo has advised that it is proposing to adopt poles where practicable along an approximately 29 km section of the CWO REZ transmission line between the Liverpool Range Wind Farm point of connection (located off Rotherwood Road, Cassilis) to the Durrigere State Conservation Area (located off Ulan Road). EnergyCo note that at high load locations, such as change in directions and significantly undulating terrain, poles may not be practicable. EnergyCo has advised that poles are proposed to be adopted where the land agreements previously made between Tilt Renewables and landowners explicitly state that poles would be utilised. Tilt Renewables has agreed to pay the additional costs associated with the construction of additional pole structures along this section of the CWO REZ transmission line. This is a fantastic outcome that is built on substantial effort and genuine goodwill between affected landholders, EnergyCo and Tilt Renewables.

While we are working closely with EnergyCo to pursue this connection option, to ensure that the Project has an approved grid connection in circumstances where delivery timeframes for the Project and the CWO REZ Transmission Line project do not align, the RTS Project includes the external transmission line. Accordingly, all potential impacts associated with the entire length of the transmission line down to Ulan have been assessed in RTS Project documentation. In the event that the Project connects into the CWO REZ Transmission Line, the external transmission line connection down to Ulan (proposed by the RTS Project) would no longer be required and all associated impacts would no longer apply.

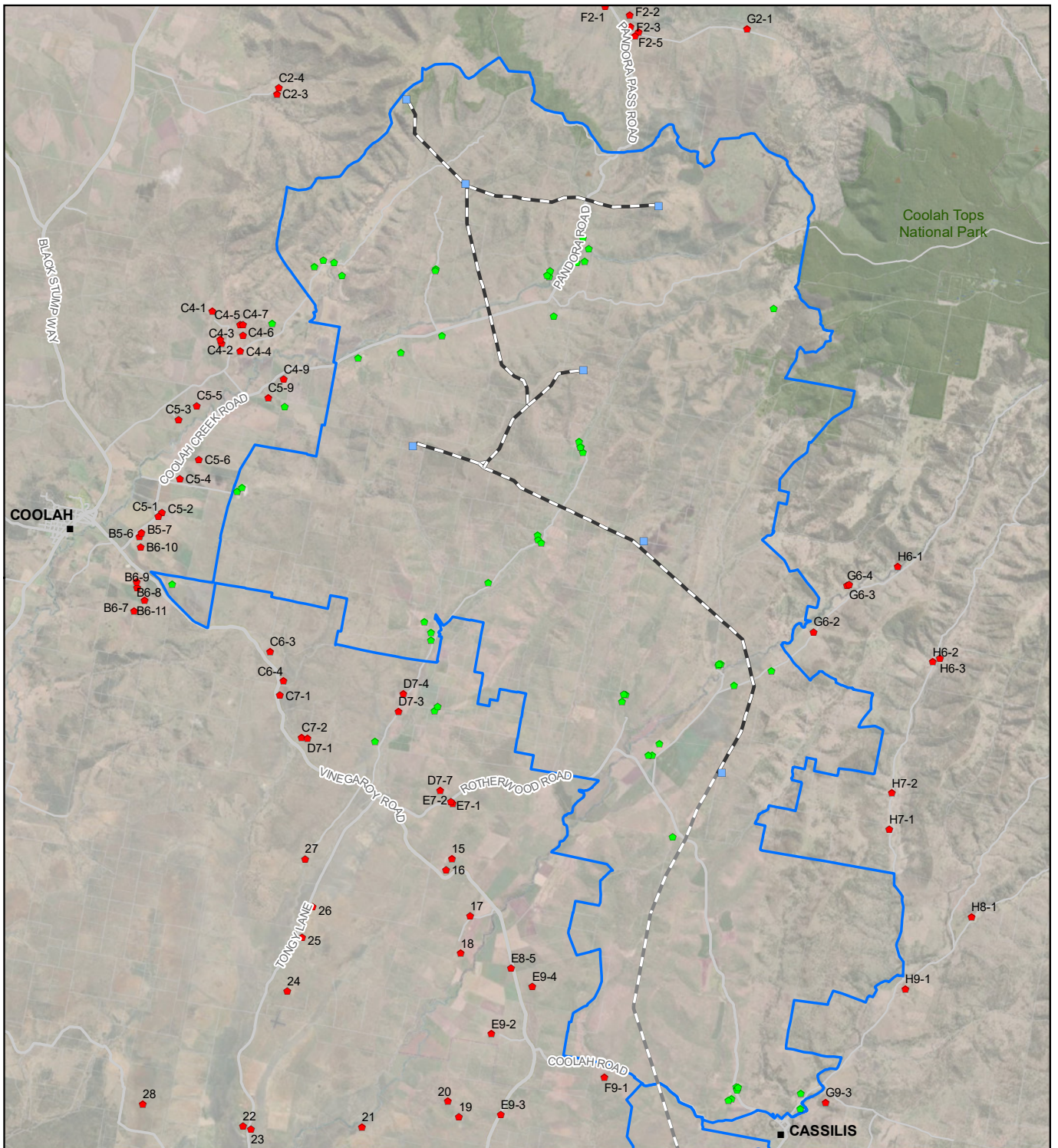
RTS Project External Transmission Line (Ulan connection point)




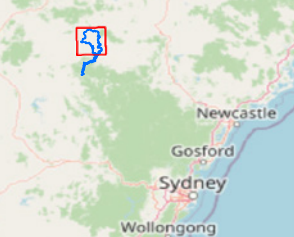
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<p>Legend</p> <ul style="list-style-type: none"> ■ Potential Substation Locations ■ Potential Switchyard Location Internal Transmission Line (Indicative 330kV) External Transmission Line (Indicative 330kV) RTS Site Boundary 	<p>Dwellings</p> <ul style="list-style-type: none"> ● Associated Dwellings ● Non-Associated Dwellings 	<p>North Arrow</p> <p>Date: 05/06/2023 Version: C</p> <p>0 0.8 1.6 2.4 3.2 4 Kilometers</p> <p>GDA 1994 MGA Zone 55 1:150,000</p>	
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RTS Project Internal Transmission Line – Wind Farm Site



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<p>Legend</p> <ul style="list-style-type: none"> ■ Potential Substation Locations ■ Potential Switchyard Location Internal Transmission Line (Indicative 330kV) External Transmission Line (Indicative 330kV) RTS Site Boundary 	<p>Dwellings</p> <ul style="list-style-type: none"> ● Associated Dwellings ● Non-Associated Dwellings 	<p style="text-align: right;">Date: 05/06/2023 Version: C</p> <div style="text-align: center;">  <p>0 1 2 3 4 5 Kilometers</p> <p>GDA 1994 MGA Zone 55 1:180,000</p> </div>	
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What impacts should I expect?

We have completed a substantial amount of work to firm up the transmission line alignment, and the location and design of the different poles and towers that are required along the transmission line route within the wind farm site and down to Ulan.

Within the wind farm a combination of poles and towers will be required, which will be made of a galvanized steel material (see images at right). We expect that poles can be used along the external transmission line to Ulan. The height of poles and towers is expected to be between 25 m and 55 m.

The poles and tower structures will be visible from various public viewpoint locations in and around the Project site. There are various key reasons why the 330 kV transmission line cannot be underground to avoid visual impact, most notably the difficulty in identifying and repairing unexpected faults in a timely manner to minimise disruptions to the electricity grid.

Transmission lines located near where aerial agricultural activities take place can be difficult for pilots to see under certain weather conditions. This can be managed through the implementation of appropriate mitigation measures.



Top: Flat top strain tower
Bottom: Double circuit strain pole

Next steps:

We are aiming to lodge the Response to Submissions (RTS) report, Amendment Report, and all updated environmental impact assessments with DPE in June 2023. These reports will detail the consultation completed to-date, how submissions received during public exhibition have been addressed, and will clearly show the changes to the design and layout of the Project. DPE will review the documentation and make a determination on the Modification Application.

We are also seeking Commonwealth approval under a separate approvals process under the *Environment Protection and Biodiversity Conservation Act 1999*. The project will be assessed by way of Public Environment Report (PER) which will be subject to a public exhibition process managed by the Commonwealth Department of Climate Change, Energy, the Environment and Water (DCCEEW). Further details on the timing of this will be provided via our website and newsletters.

STAY UP TO DATE

To view the Project online and to subscribe to the newsletter, visit:
www.liverpoolrangewindfarm.com.au



To stay up to date on progress of the Project visit:

Modification Application:

www.planningportal.nsw.gov.au/major-projects/projects/mod-1-turbine-and-infrastructure-changes

EPBC Approval:

epbcpublicportal.awe.gov.au/all-referrals/project-referral-summary/?id=dc3fd301-9a6b-ed11-81ac-00224818aa21

For more information, please visit the website below

or call us anytime to ask questions using: 1800 WE TILT (938 458)

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