

Banana Range Wind Farm Connection Project



Proposed transmission line – corridor options and detailed descriptions

We invite landholders, the wider community and other stakeholders to provide feedback and input on three potential options, known as corridors, for location of a new transmission line to connect the proposed Banana Range Wind Farm to the electricity grid. In some locations, the corridors are slightly wider or narrower to provide additional area for a proposed transmission line to avoid or minimise impacts to landholders and the wider community. An opportunity has also been identified for the proposed new line to be co-located with existing linear infrastructure such as transmission and railway lines.

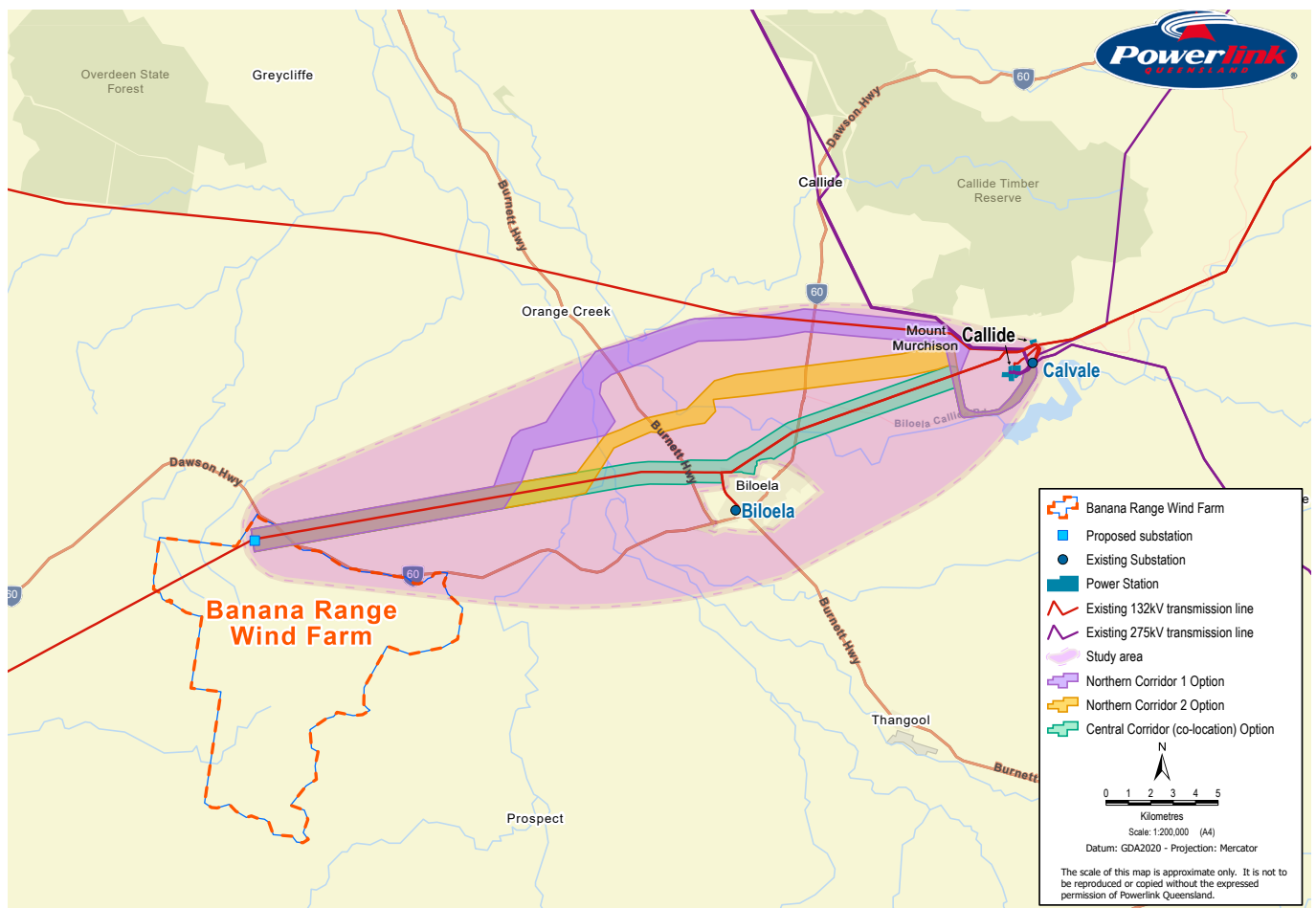
The three corridors being compared and assessed contain common sections at the eastern and western ends.

At the eastern end, all corridors are located south-west from the Calvale Substation and then turn north, remaining near the western boundary of the power station property. This minimises impacts on agricultural land immediately west.

At the western end, all corridors co-locate with the existing Calvale to Moura transmission line and continue west to the proposed substation at the Banana Range Wind Farm site.

The three potential corridor options have been identified as:

- Northern corridor 1
- Northern corridor 2
- Central corridor



Northern corridor 1

This corridor traverses south-west from the Calvale Substation then heads west adjacent to Biloela Callide Road. The corridor then turns north and stays near the western boundary of the power station property, crossing the east-west rail line. Where possible, the corridor co-locates with the existing Calvale to Baralaba transmission line for around 7km near Dudarkos Road. It then turns south-west to cross Jambin-Dakenbah Road, Callide Creek, Burnett Highway and Kroombit Creek before co-locating, where possible, with the Calvale to Moura transmission line around 1.5km west of the junction of Orange Creek Road and Prospect Creek Goovigen Road. The corridor then continues west to the proposed substation at the Banana Range Wind Farm site.

Characteristics of this corridor include:

- Total length – 41km
- Co-location with the existing Calvale to Baralaba and Calvale to Moura 132kV transmission lines (16km)
- Some impact on intensively cultivated areas
- Nine houses within the corridor
- 67 land parcels within the corridor
- Opportunity to follow property boundaries where possible
- Potential impacts to remnant vegetation.

Northern corridor 2

This corridor traverses south-west from the Calvale Substation then heads west adjacent to Biloela Callide Road. The corridor then turns north and stays near the western boundary of the power station before turning west at the railway line and continuing to Jambin-Dakenbah Road. Where possible, the corridor co-locates with the existing railway line in this area. It then moves south-west across Callide Creek, Burnett Highway and Kroombit Creek before co-locating, where possible, with the Calvale to Moura transmission line just west of the junction of Zischkes Lane and Bowketts Lane. It then continues west to the proposed substation at the Banana Range Wind Farm site.

Characteristics of this corridor include:

- Total length – 38km
- Co-location with the existing railway line and Calvale to Moura 132kV transmission line (23km)
- Some impact on intensively cultivated areas
- 10 houses within the corridor
- 84 land parcels within the corridor
- Opportunity to follow property boundaries where possible
- Potential impacts to remnant vegetation.

Central corridor

This corridor traverses south-west from the Calvale Substation then heads west adjacent to Biloela Callide Road. The corridor then turns north and stays near the western boundary of the power station, after which it turns west and co-locates where possible with the existing Calvale to Moura transmission line. It then extends into the proposed substation at the Banana Range Wind Farm site. Note, Biloela township is excluded from the corridor as in this location the densely populated urban land use is not compatible with a transmission line.

While excluded from the corridor, the number of houses and land parcels within the township that are generally within 500m of the existing transmission line have been identified. This enables a fair and accurate comparative assessment with the other corridors which are of similar size (i.e. generally 1km wide).

Characteristics of this corridor include:

- Total length – 35km
- Co-location with the existing Calvale to Moura 132kV transmission line (30km) – requires crossing the existing transmission line in several locations to avoid houses and businesses
- Some impact on intensively cultivated areas
- Approximately 47 houses within the corridor and 196 houses within the Biloela township
- Approximately 131 land parcels within the corridor and 203 within the Biloela township
- Intersects larger properties and does not follow property boundaries
- Potential impacts to remnant vegetation.

Why wasn't the southern corridor considered?

A southern corridor option was initially considered, however following engagement with landholders, other stakeholders and members of the community, as well as detailed technical assessment, this option was not considered viable moving forward, mainly due to significant social impacts. This includes impacts on many small properties south of Biloela township, including the Prospect and Valentine Plains areas as well as impacts on the community and sporting facilities along Valentine Plains Road.

How will you assess these corridor options?

We are now seeking your insights and feedback on these corridor options. With the help of your local knowledge and input, our project team will further assess each corridor using both qualitative and quantitative methods. Qualitative assessment includes professional expert input, landholder feedback and general insights as part of engagement. Quantitative assessment considers numerical data on impacted areas (e.g. intensive cultivated land), transmission line length, individual counts (e.g. houses, schools, number of land parcels and number of bend points on a potential transmission line).

This assessment process involves weighing up the potential environmental, social and economic impacts of each corridor option. The recommended corridor will be the option that has the least overall impacts on a range of environmental, social and economic factors. The assessment of these corridors and the recommended corridor will be outlined in the Draft Corridor Selection Report (CSR) which will be publicly released in November 2022. Landholders and the wider community can comment on the Draft CSR and also meet with our project team at community information drop-in sessions in November 2022.

Proposed transmission line corridor option characteristics			
Description	Northern corridor 1	Northern corridor 2	Central corridor
Corridor length	41km	38km	35km
Co-location with the existing Calvale to Baralaba and Calvale to Moura 132kV transmission lines	16km	23km	30km*
Some impact on intensively cultivated areas	Yes	Yes	Yes
Houses within the corridor	9	10	243**
Land parcels within the corridor	67	84	344**
Opportunity to follow property boundaries where possible	Yes	Yes	No
Potential impacts to remnant vegetation	Yes	Yes	Yes

* Requires crossing the existing transmission line in several locations to avoid houses and businesses.

** For comparative assessment, these numbers also include some houses and land parcels within the Biloela township that fall within 500m of the existing transmission line.



To learn more about the Banana Range Wind Farm Connection Project we encourage you to contact us.

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