

Burnett Stakeholder Reference Group

13 October 2022

Welcome

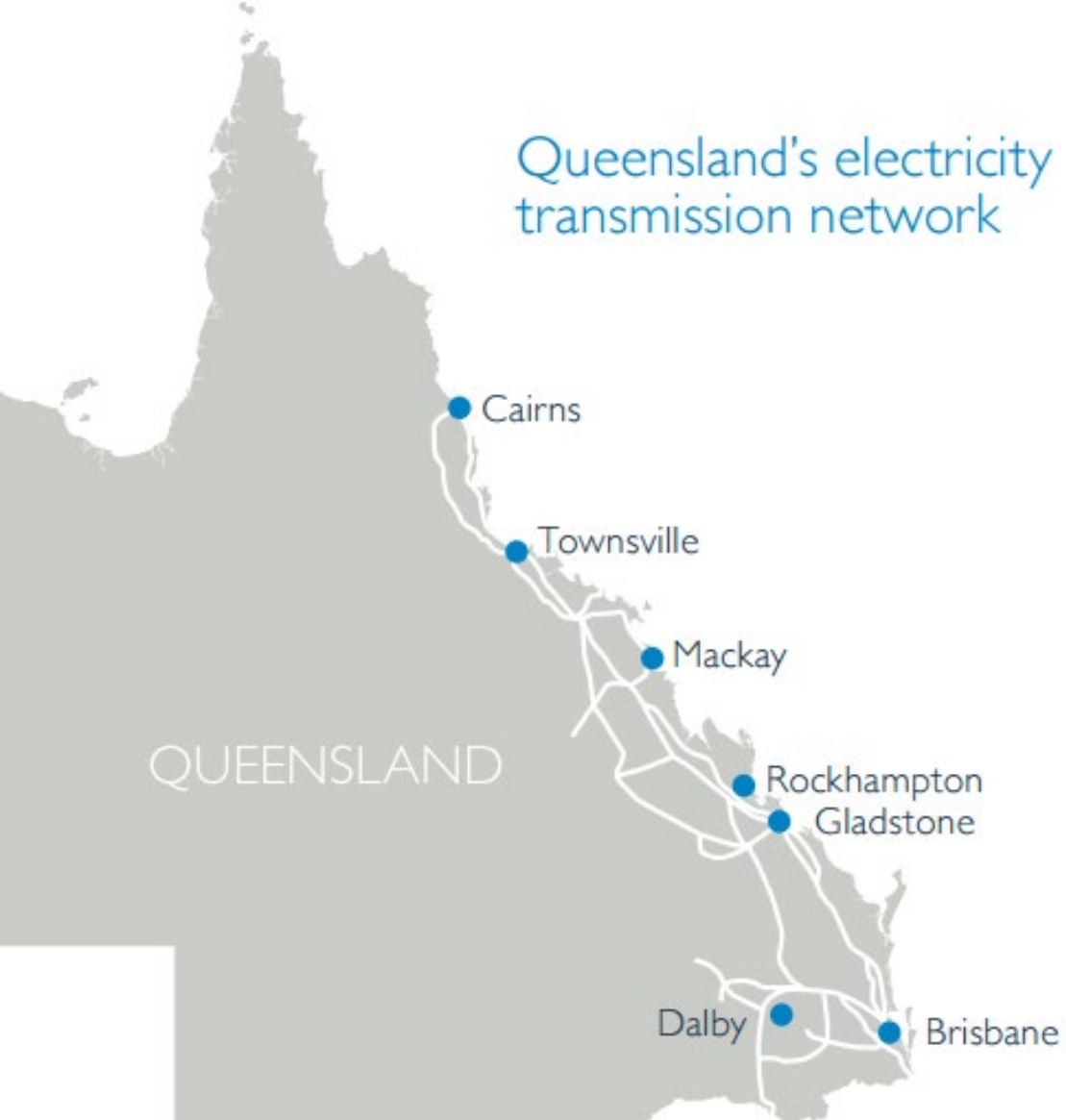
- General housekeeping matters
- About Powerlink Queensland
- Borumba Pumped Hydro Project
- Borumba Pumped Hydro Project – Transmission line connections
- Community and stakeholder engagement activities
- Current transmission projects underway in the local area
- Stakeholder Reference Group Terms of Reference
- What's next
- Session close



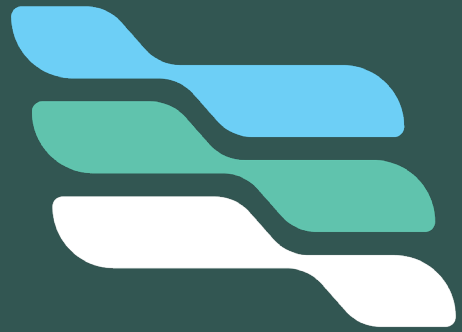
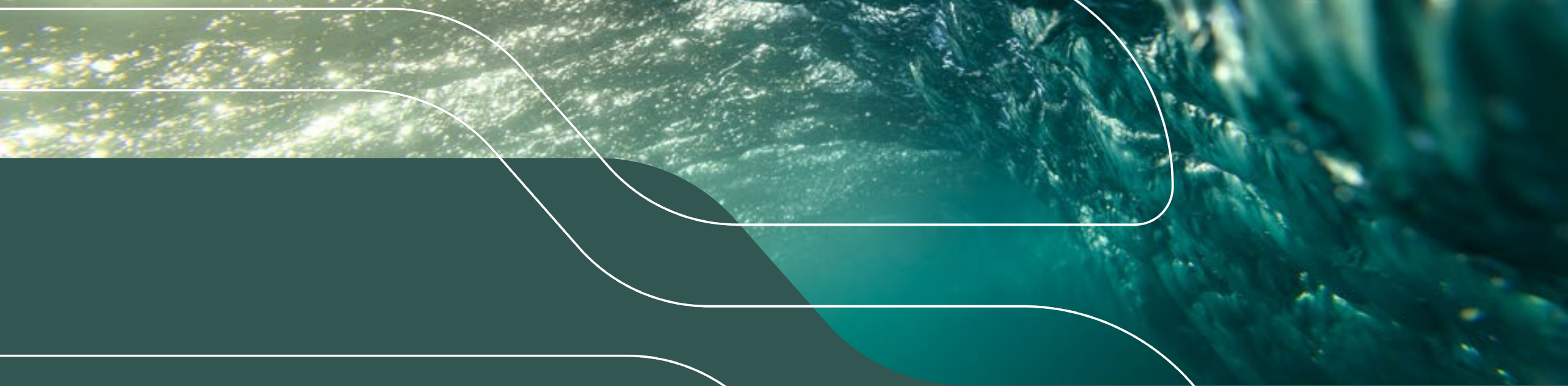
Acknowledgement

Powerlink acknowledges the Traditional Owners and their custodianship of the lands and waters of Queensland and in particular, the lands on which we operate. We pay our respect to their Ancestors, Elders and knowledge holders and recognise their deep history and ongoing connection to Country.

About Powerlink



- Queensland Government Owned Corporation
- Owns, develops, operates and maintains the transmission network, providing electricity to five million Queenslanders and 238,000 businesses
- Network transports electricity from where it is generated eg. power stations and renewable generators such as large-scale wind farms to distribution networks eg. Ergon Energy and Energex
- Also have large industrial customers such as mines, rail companies and mineral processing facilities connected directly to our network
- Committed to genuine and timely engagement with landholders, local communities and other stakeholders in planning our future network development in Queensland



Queensland
Hydro



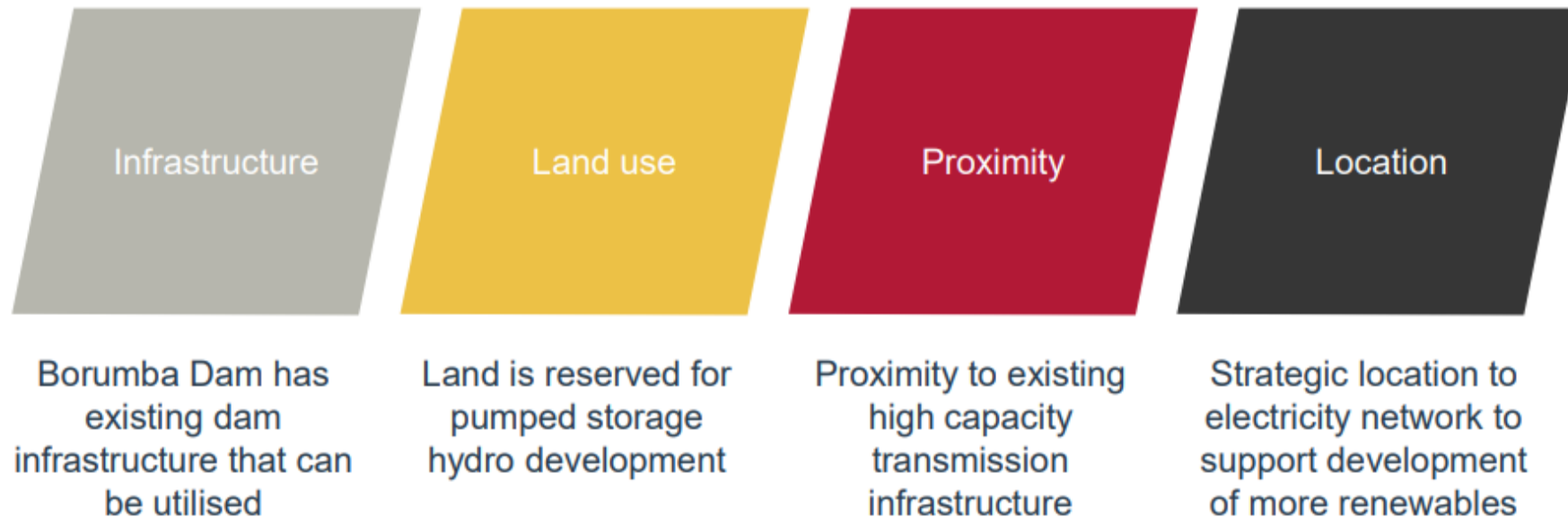
Borumba Pumped Hydro Energy Storage (PHES) Project

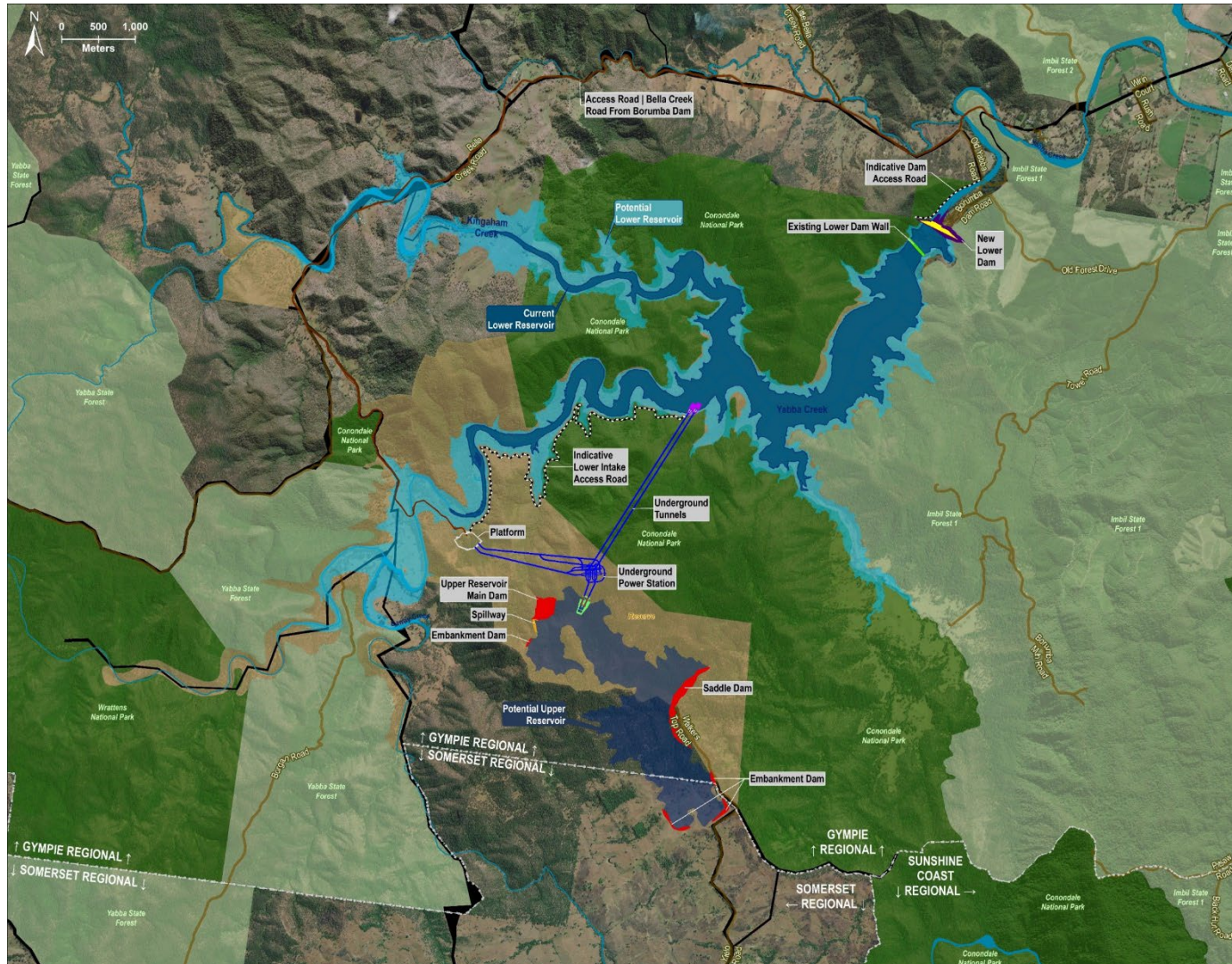
Introduction to project



Why Borumba?

From initial State-wide studies, Borumba was identified by the Queensland Government as one of the best potential sites for long-duration Pumped Hydro Energy Storage (PHES) in Queensland





Reference project

- Reference project specifies new dam height up to 20 m above current dam height: 155 m Australian Height Datum (AHD)
- Under the reference project, area of National Park impacted is about 96 ha (at 155 m AHD)



Lower reservoir

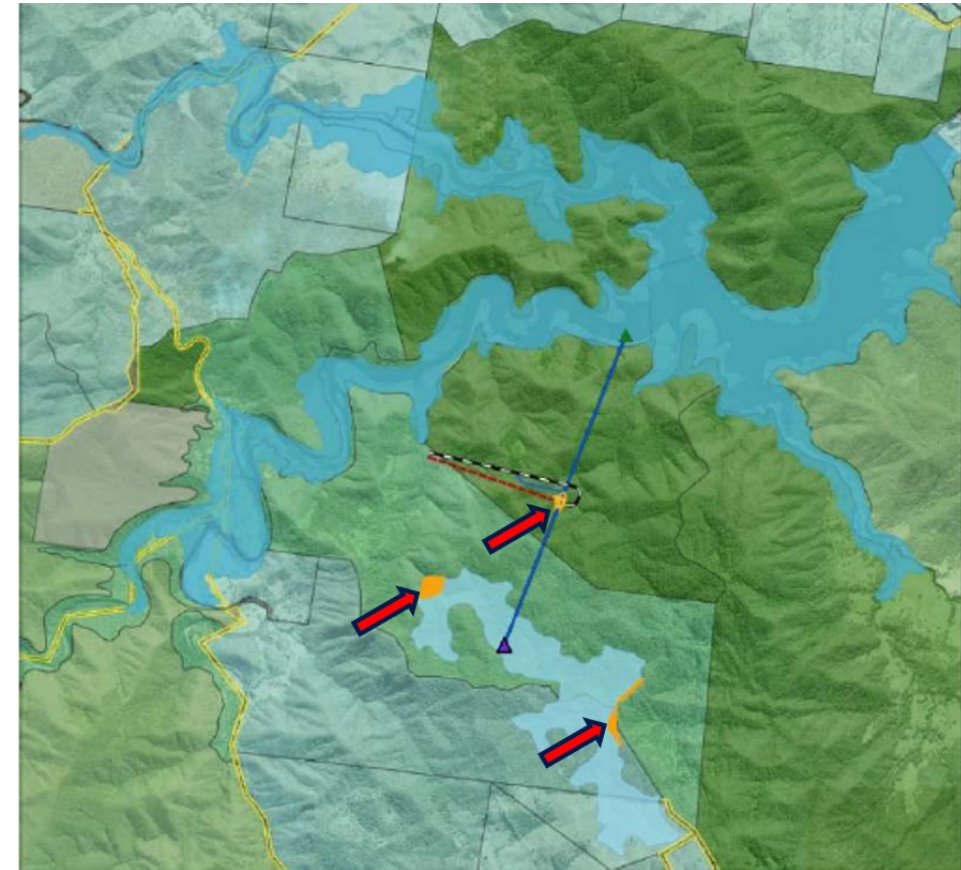
- Need to construct a new dam wall immediately downstream of current dam wall
- Various heights being considered:
 - Scheme must be highly reliable
 - Not at expense of existing allocations & environmental flows
- Trade-offs:
 - Higher dam - increased reliability and capacity, enhanced water supply, lower daily water level fluctuations
 - Lower dam - smaller inundation area, environmental approvals, lower cost





Upper reservoir

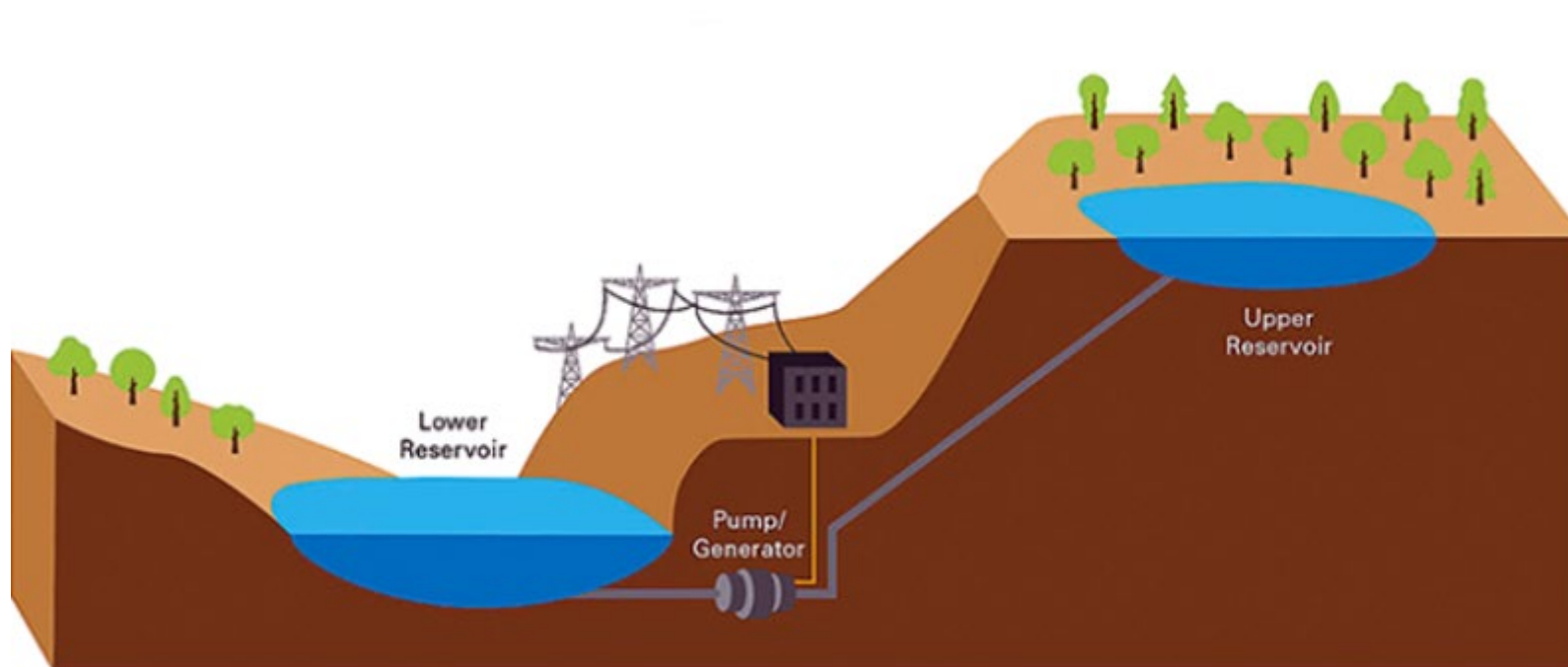
- Located entirely on Queensland Hydro owned land – identified as potential pumped hydro site since 1980s.
- 490 m AHD main dam, 400 m crest length
- 44 m high saddle dam, 1.4 km crest length
- Concrete faced rockfill dam or roller compacted concrete
- Generation:
 - 2,000 MW capacity
 - 48,000 MWh storage





Scheme operation

- Rated gross head = 333 m
 - Power rated = 2,000 MW
 - Typically pumping at times of high solar generation
 - Typically generating when no or limited solar (night or poor solar days)
- Daily fluctuation in water levels are dependent on:
 - Volume of water in Lake Borumba at time of pumping/generation
 - Daily duration of pumping/generation
 - Installed capacity of scheme





Questions?



Borumba Pumped Hydro Project – Transmission Line Connections

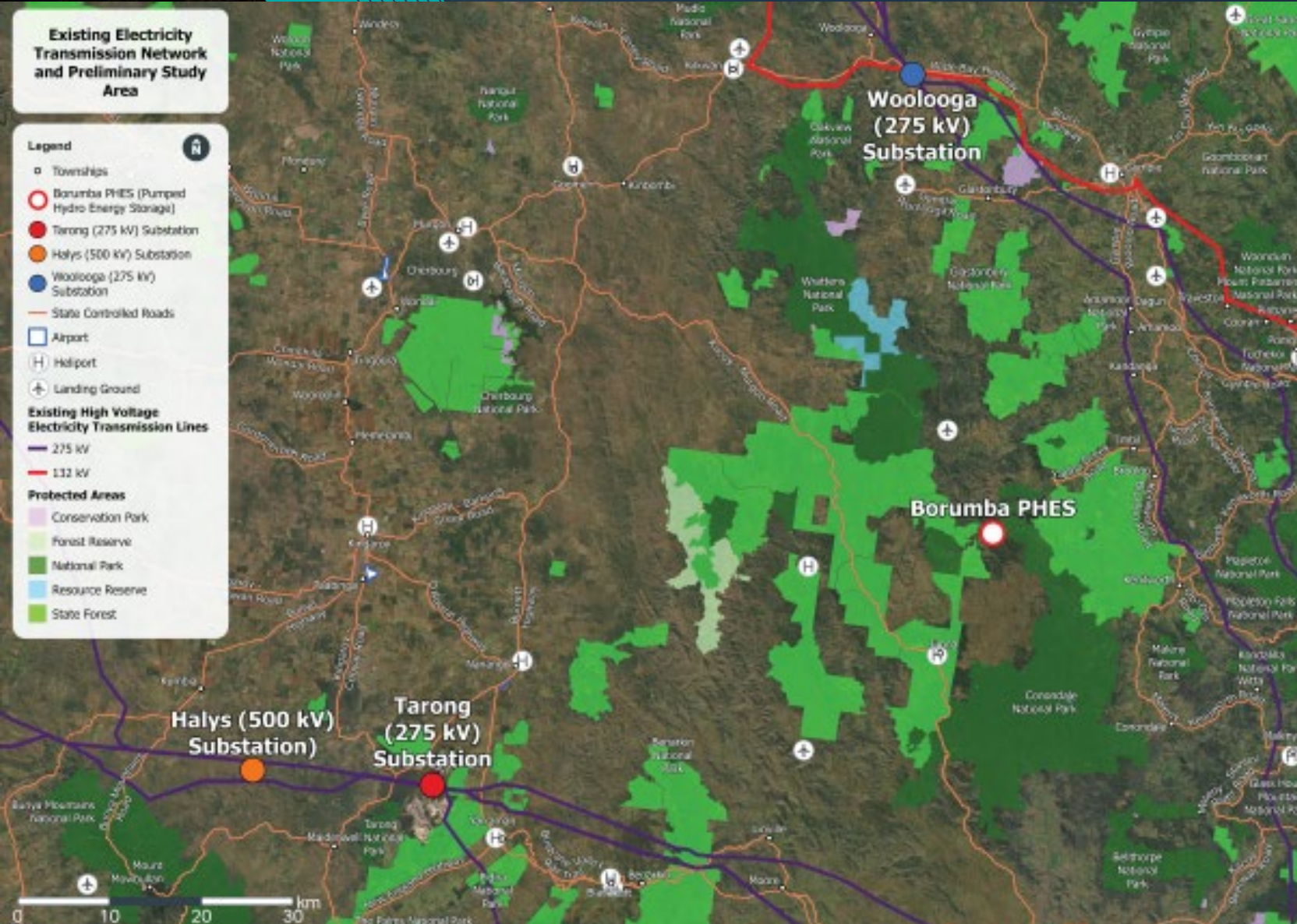
Kurt Baker, Powerlink Queensland

Transmission network connection

- Two new transmission lines will need to be built to connect the pumped hydro facility to the existing transmission network at Powerlink's Woolooga Substation (to the north) and Tarong/Halys substations (to the west).
- We are currently investigating important factors for the potential transmission corridors including:
 - Environmental and physical
 - Social
 - Economic
- At the same time, we are engaging early (since late last year) with local communities and stakeholders to gain valuable insights and input to help with our planning.
- Will help Powerlink to then identify potential transmission corridor options – will engage on proposed corridor options in Nov 2022



Potential transmission connection points



Borumba to Woolooga Substation

- Approx. 50 km direct route

Borumba to Tarong Substation

- Approx. 65 km direct route

Borumba to Halys Substation

- Approx. 85km direct route

Connection and alignment considerations:

- Highly reliable scheme
- Land and easements
- Community acceptability
- Support Renewable Energy Zone development
- 2050+ network requirements
- Process to define transmission line alignment to occur through 2023

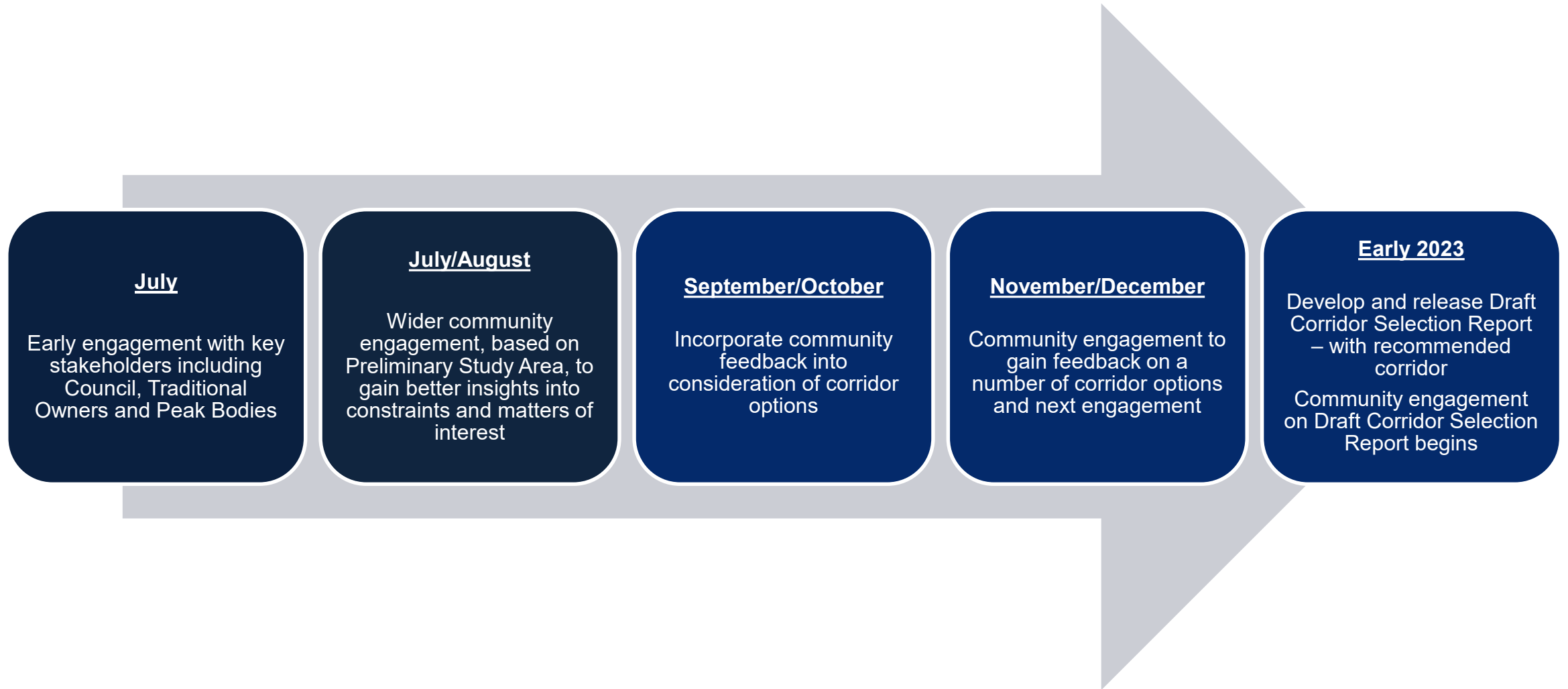
Factors affecting route selection

When selecting a corridor, we consider a range of factors including:

- social impacts, including proximity to residential dwellings
- topography (features of the land, such as hills and creeks)
- important agricultural land and activities
- significant Aboriginal and non-Aboriginal Cultural Heritage
- environment and conservation areas
- constructability (where it can be built)
- location of towns and high population areas
- location of existing infrastructure
- economic cost



Transmission engagement timeline to early 2023



Community and stakeholder engagement activities

Nicole Maguire, Powerlink Queensland

Community sentiment research – Voconiq 2021 Findings

Who: Powerlink uses Voconiq’s social insights framework to conduct surveys of community members to understand community sentiment toward its operations and the renewable energy more broadly.

Number: 468 community members

Where: Toowoomba, Maranoa, South Burnett, and Western Downs LGAs

Why: to explore views on renewable energy development in Queensland, development of transmission infrastructure to support a Renewable Energy Zone and Powerlink’s current relationship with, and impacts on local communities.

Findings showed:

- community members are positive toward Queensland’s renewable energy commitment
- see the role that new infrastructure plays in helping to achieve it
- broadly supportive about this infrastructure being developed within their specific communities
- provide local employment
- opportunities for small local businesses
- would like having input into planning
- would like to see environmental impacts managed effectively

Trust in Powerlink is driven by a sense of fairness in the way benefits of new projects are distributed, responsiveness to community concerns, and confidence that Powerlink ‘does the right thing’

Engagement activities for Borumba Pumped Hydro Project – Transmission line connections

- Engagement with stakeholders and the wider community on pumped hydro project started late 2021
- Community information sessions on transmission connections #1 at Yarraman, Nanango, Gympie, Imbil in August 2022
- One-on-one briefings with local community groups in Yarraman, Nanango, Kingaroy in September 2022
- Stakeholder list include landholders in the area, Traditional Owners, local and state government reps, business groups, wider community
- Early discussions focused on information gathering to help with our decision-making and planning
- Ongoing engagement with landholders and other stakeholders via Burnett Stakeholder Reference Group, catch ups in person, phone calls, project website and email and interactive map



Community investment

- Recently announced successful applicants in small community grants program in South Burnett and Western Downs regions
- 13 groups shared in \$12,500
- Long-time sponsors of SES groups across the state – since 2015



Nanango and District Netball Association

3 d · 🌐



👏 Thank-you [Powerlink Queensland](#)!! We really appreciate you investing in our club, and can't wait to put the money to good use 🙌



Powerlink Queensland

Posted by Power Link
6 d · 🌐

13 is lucky for some and that's the number of hard working local groups across [#WesternDowns](#) and [#SouthBurnett](#) communities receiving grassroots support as part of our [#community](#) small grants program. These groups will be sharing in \$12,500 in funding to support a range of important local initiatives, from hats and history to sun safety and sports.

We were overwhelmed with the quality of the applications and are proud to be able to support these groups where we can. Check out our lucky 13 first round recipients on our website: www.powerlink.com.au/communitysmallgrants [#smallgrants](#)

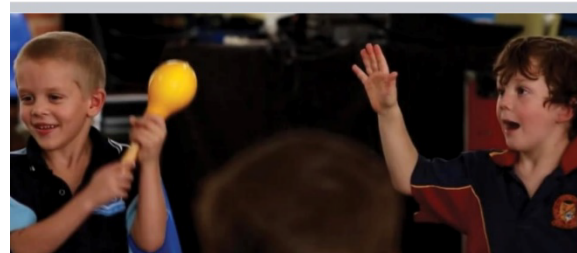
[Western Downs Regional Council South Burnett Regional Council](#)

👍 You and 29 others 1 comment 2 shares

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South Burnett Western Performance Club Inc. · [Join](#)

Melanie Doheny · 2 d · 🌐

Another great sponsorship announcement and THANK YOU!

Powerlink Queensland has announced that the **South Burnett Western Performance Club Inc.** has been successful in the recent round of grant funding with \$1,500 sponsorship!

The grant is to support some new equipment for our Beginner Shows at the grounds for everyone to use!

Keep your eye out for the new flash things we have on the way for the new show year for our beginners and young people of our great western performance club in Nanango.

Borumba Dam community survey Findings

Survey undertaken in August and September 2022, 327 responses received

Q. Ranking of key factors that Powerlink should consider when developing new transmission lines and substations

Top four factors are:

1. Locate new transmission line with an existing line
2. Avoid areas of significant Aboriginal and non-Aboriginal cultural heritage
3. Avoid known recreation and tourism areas
4. Avoid residential dwellings and key buildings

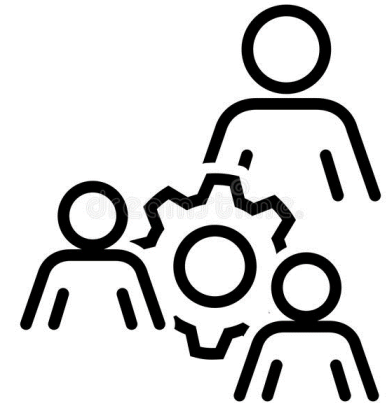
Q. Is there something that isn't listed above or a particular point of interest you would like us to consider? (free text question)

- Reduce transmission line footprint and clearing of corridors
- Place powerlines underground
- Keep to existing transmission line pathways
- Pest and weed management and mitigation during construction
- Ongoing engagement and early notification of activities
- Impact on landholders and livelihoods
- Landscape and visual amenity impacts
- Electric and magnetic fields
- Environmental impacts – koala habitat, local flora and fauna, and clearing of native vegetation.

Local opportunities

We are keen to maximise opportunities for local suppliers of support services wherever possible. Potential local contractor opportunities include:

- accommodation providers
- fuel suppliers
- vegetation and biosecurity management
- access works
- water supply
- waste management and recycling
- concrete and gravel supplies
- machine and equipment hire
- security services
- cranes
- cleaning services
- IT expertise
- office supplies and printing
- restaurants/eateries
- car hire.

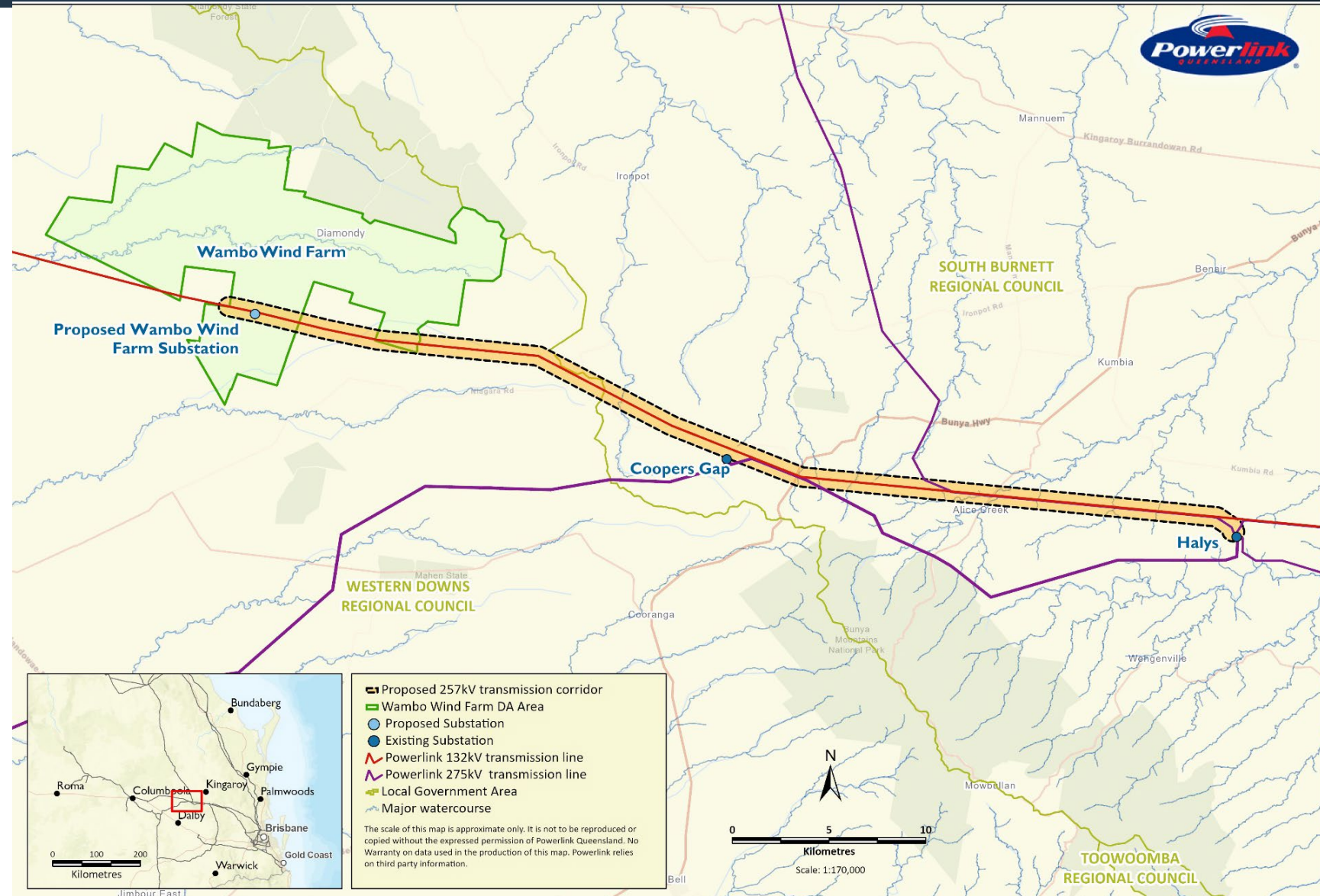


Current transmission projects underway

Nicole Maguire and Nicole Gagen, Powerlink Queensland

Wambo Wind Farm Connection Project

- Tarong to Chinchilla line commissioned in 1986, 132kV double circuit
- Structures are in good condition, with ageing assets at Tarong and Chinchilla substations
- New transmission line will allow for future renewable development and maintain secure and reliable electricity supply in the region into the future
- First stage of project: 200MW / 35 turbines
- Proponents: Cubico, now joint venture with Stanwell



September 2021

- Initial engagement with landholders on existing Tarong to Chinchilla 132kV line and Traditional Owner groups

October 2021

- Initial engagement with landholders adjacent to the Tarong to Chinchilla 132kV line and further engagement with impacted landholders

November 2021

- Community information sessions held at Jandowae and Kingaroy

January to March 2022

- Ongoing engagement with landholders and other stakeholders
- Release of Draft Corridor Selection Report (CSR) in March with recommended corridor to connect wind farm

March to June 2022

- Consideration of matters raised in two submission on Draft CSR
- Release of Final CSR in June – now ongoing engagement to finalise transmission line alignment within the final corridor.

Meandu Mine Transmission Line Relocation Project

- Engaged by Stanwell Corporation to relocate a short section of the existing Tarong to Middle Ridge transmission line
- Activities at the existing and expanded mine necessitates relocation of the transmission line to enable mining to occur.
- Powerlink has been engaging with Stanwell and directly affected landholders, HQ Plantations and the Department of Environment and Science (Queensland Parks and Wildlife Service), to examine the preferred option to relocate this short line segment.
- Involves building a new 275kV transmission line around 4.6km long to replace the current section
- Powerlink is following a Ministerial Infrastructure Designation approvals process
- Release of Final CSR shortly with a study corridor

Stakeholder Reference Group Terms of Reference

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- Objectives of the Stakeholder Reference Group
- Membership
- Meetings - procedures and frequency
- Agenda and minutes
- Conflict of interest
- Confidentiality
- Media protocols
- Terms of Reference review, every two years

Next Steps

- Next SRG meeting
- Project stand at Stanwell information session 8 Nov
- Transmission Sub-Group Stakeholder Reference Group meeting 11 Nov
- Borumba Stakeholder Reference Group meeting 24 Nov
- Community information sessions at:
 - Kilkivan 22 Nov 10am-12pm
 - Woolooga 22 Nov 3-6pm
 - Imbil 23 Nov 3-7pm
 - Gympie 24 Nov 3-6pm
 - Yarraman 28 Nov
 - Nanango 29 Nov

Thank you 😊

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