

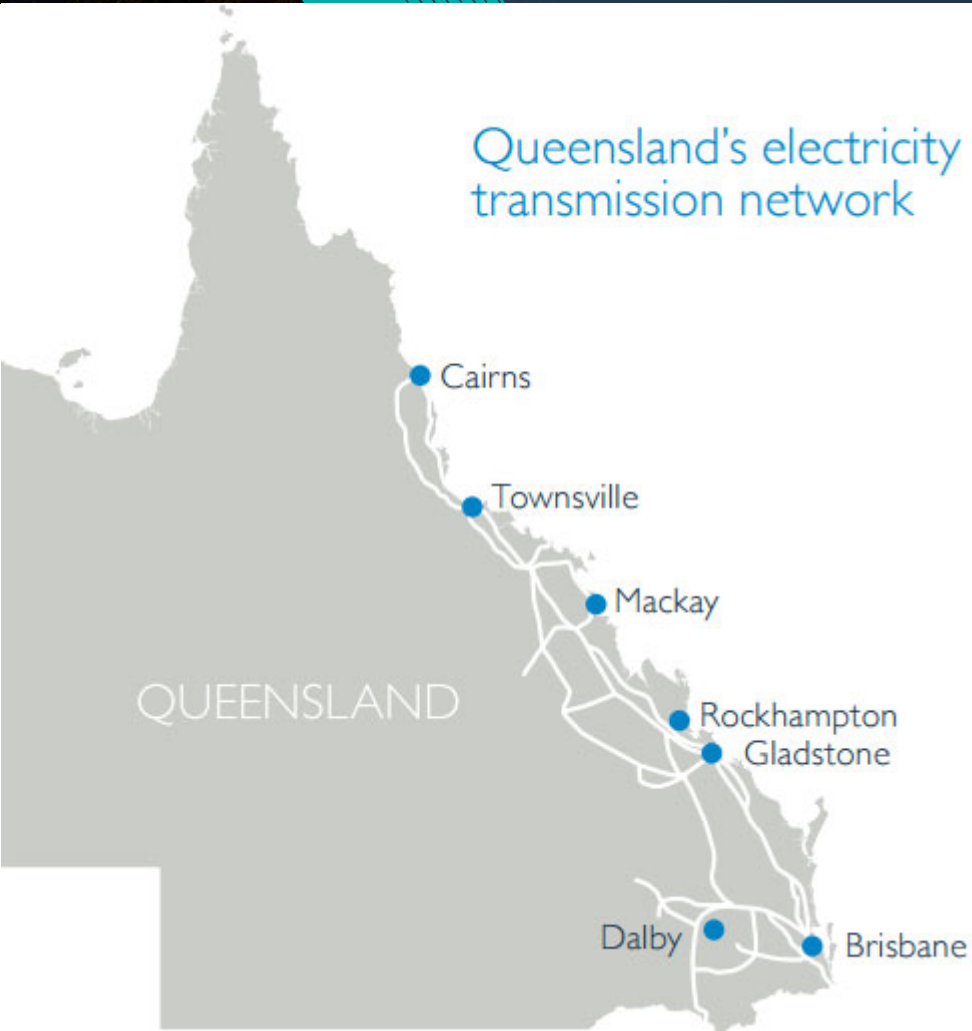
# Borumba Pumped Hydro Project – Transmission Line Corridor Options



# Acknowledgement

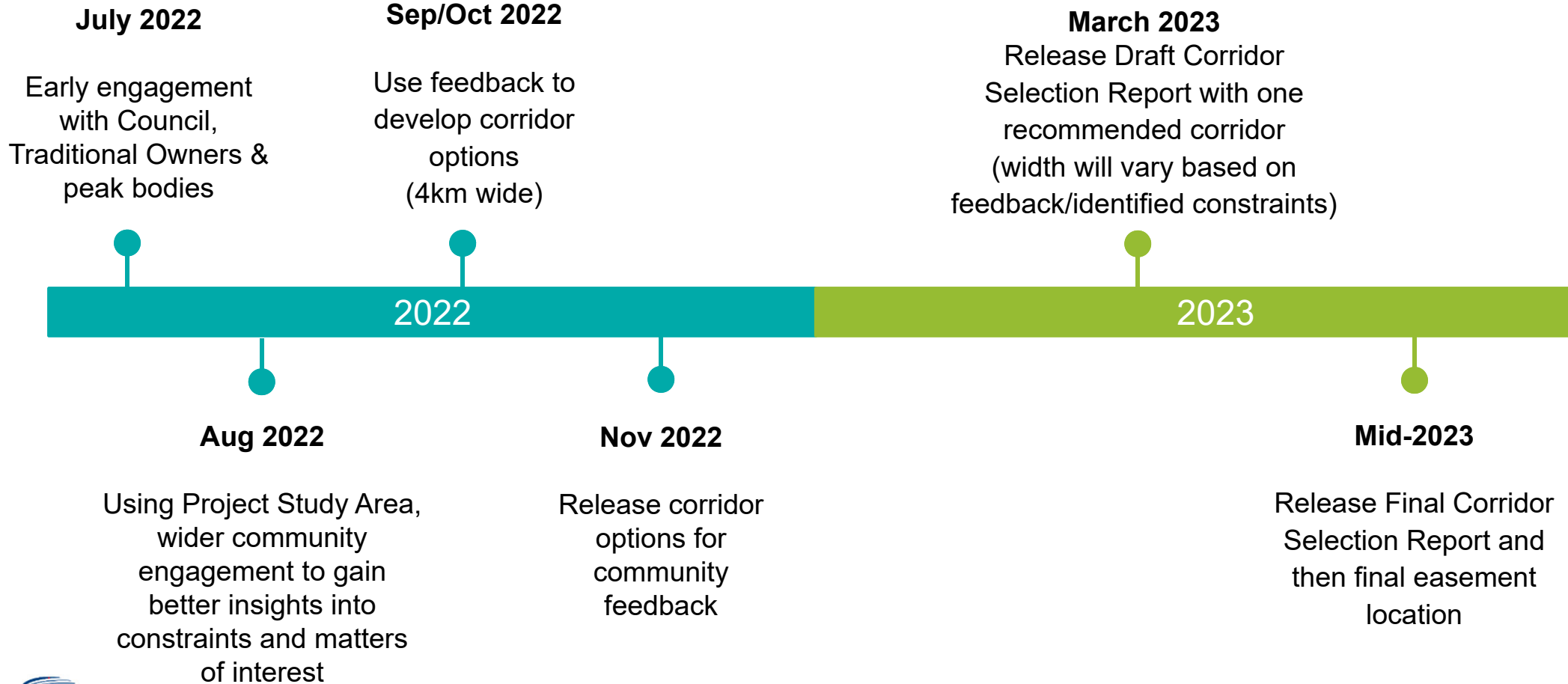
Powerlink acknowledges the Traditional Owners and their custodianship of the lands and waters of Queensland and in particular, the lands on which we operate. We pay our respect to their Ancestors, Elders and knowledge holders and recognise their deep history and ongoing connection to Country.

# About Powerlink



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

# Engagement timeline



# Engagement activities

- Engagement on pumped hydro project started December 2021
- Community information drop-in sessions on transmission connections (study area engagement) at Imbil and Gympie in July 2022 and Yarraman and Nanango in August 2022
- Community information drop-in sessions (corridor options engagement) at Kilkivan (x2), Woolooga, Imbil, Gympie (x2), Jimna, Yarraman, Nanango (x2), Linville, Kandanga, Widgee, Maidenwell, Blackbutt and Kilcoy in November and December 2022
- Ongoing engagement with landholders and other stakeholders via Pumped Hydro Stakeholder Reference Group, Transmission Sub-Group and Burnett Stakeholder Reference Group
- Regular briefings to councils, State MPs, local organisations and groups
- Also meetings in-person, phone calls, project website, emails and online interactive map.

# 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, cultural and physical
  - Social
  - Economic
- We are engaging with local communities and stakeholders to gain insights and input to help identify a recommended corridor option



# What we've heard so far

Landholders, community members and other stakeholders have expressed interest in the following areas:

- Use of state-owned land
- Co-location with existing infrastructure
- Avoiding population centres, residential dwellings and key buildings
- Avoiding known recreation and tourism areas
- Avoiding areas of significant Aboriginal and non-Aboriginal Cultural Heritage
- Impacts on landholders and livelihoods
- Visual amenity
- Compensation
- Flora and fauna impacts
- Biosecurity
- Flooding and bushfire considerations
- Undergrounding
- Electric and magnetic fields (EMF)
- Engagement process

# Project details

## We're still engaging

- No decisions have been made on the location of the new transmission line or corridor.

## State-owned land

- Based on community feedback, we aim to maximise the use of state-owned land wherever practical, and are engaging with relevant government agencies to assess options and impacts.
- As part of investigating the further use of state-owned land, we will assess areas outside of the current corridors. The Draft CSR will reflect these investigations.
- Our initial assessment is that an entirely 100% state-owned corridor cannot be delivered as some sections of the area are only freehold. Our process ensures we consider and balance all relevant environmental, social and economic impacts.
- All corridors already include portions of state-owned land.

## Transmission line voltage

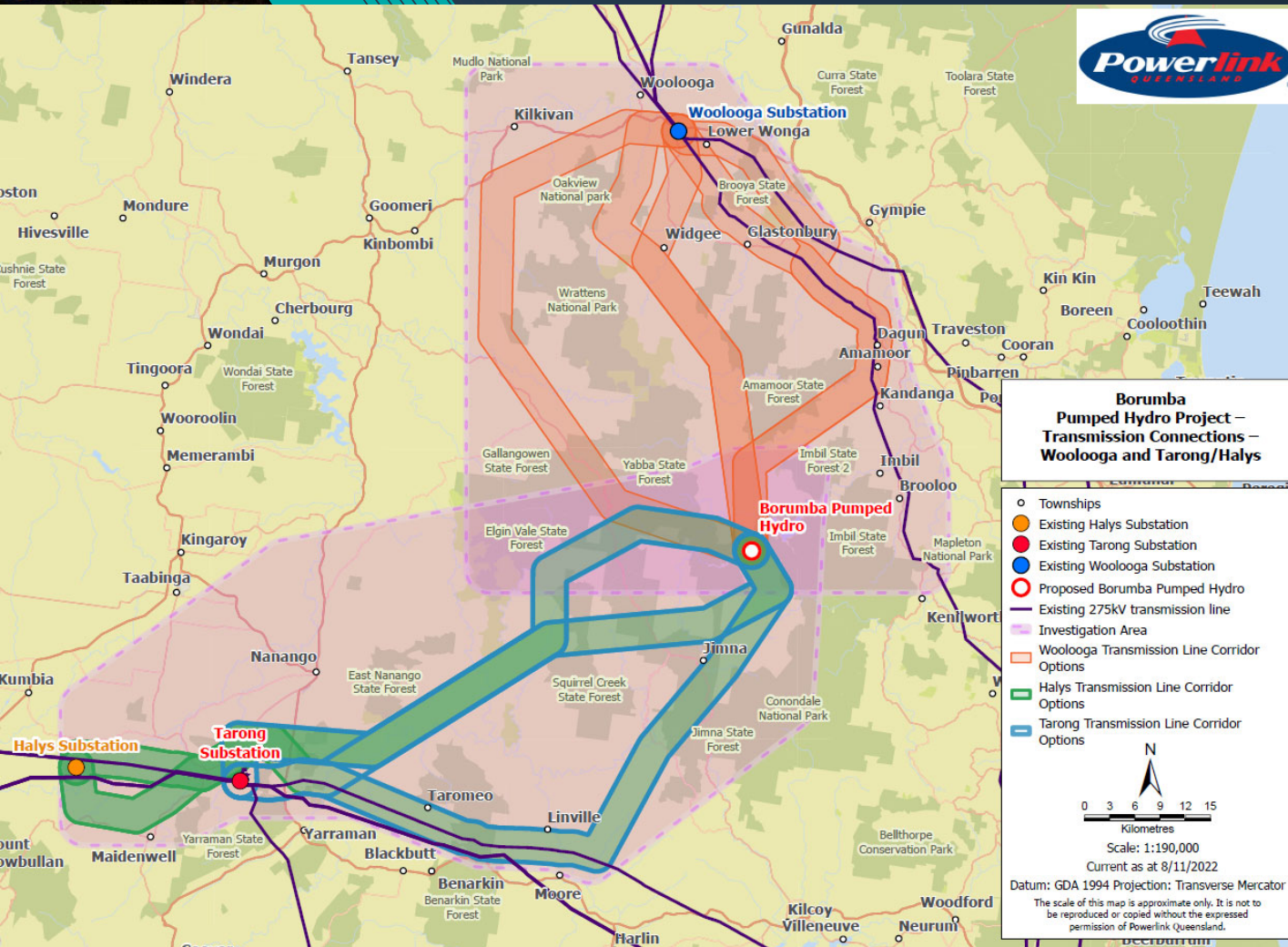
- The transmission line is likely to be 500 kilovolt (kV). The Draft Corridor Selection Report will be prepared on the basis of a 500kV option.

## Undergrounding

- These corridors are overhead options but we'll consider undergrounding where feasible.

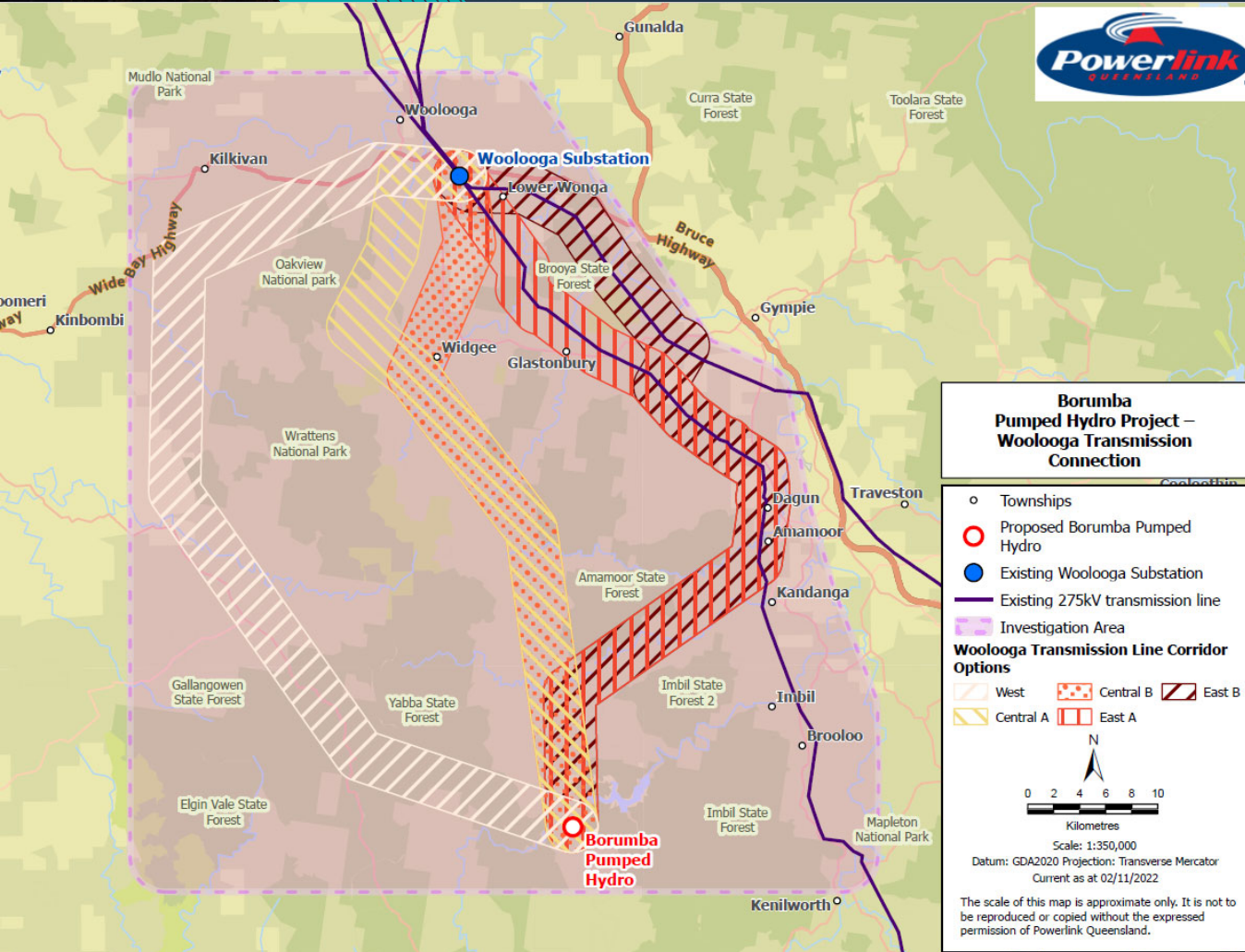


# Project map and potential transmission connection points



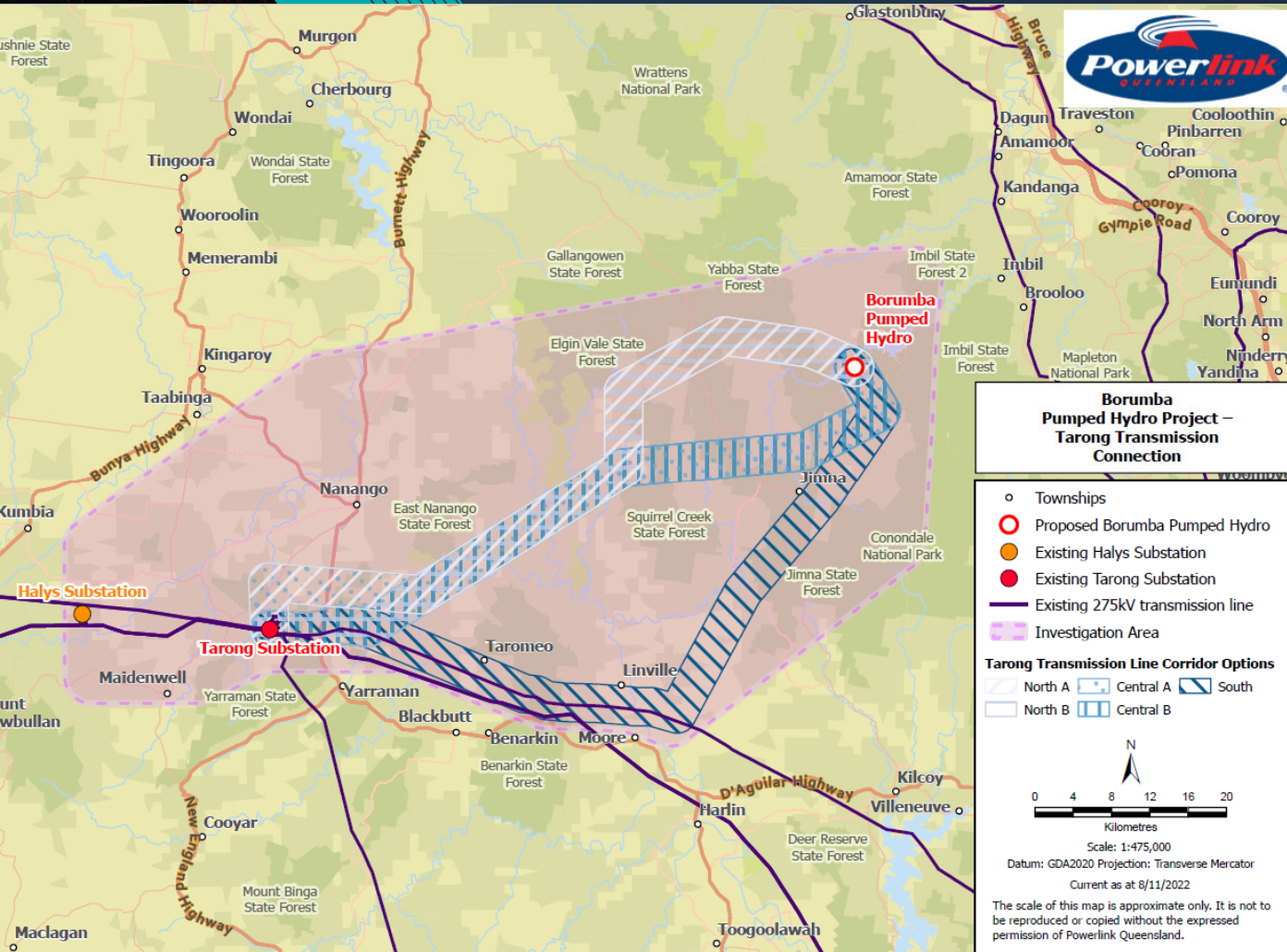
- Following feedback from the wider community and initial desktop investigations, we identified:
- Three potential corridor options for the Woolooga end - Western, Central and Eastern
- Three potential corridor options for the Tarong/Halys end - Northern, Central and Southern
- Connection likely to be 500kV
- Corridors are 4km wide, final selected easement is likely to be 70m wide (500kV)
- We are now seeking feedback from the community regarding the proposed transmission line corridor options

# Woolooga Transmission Line Corridor Options



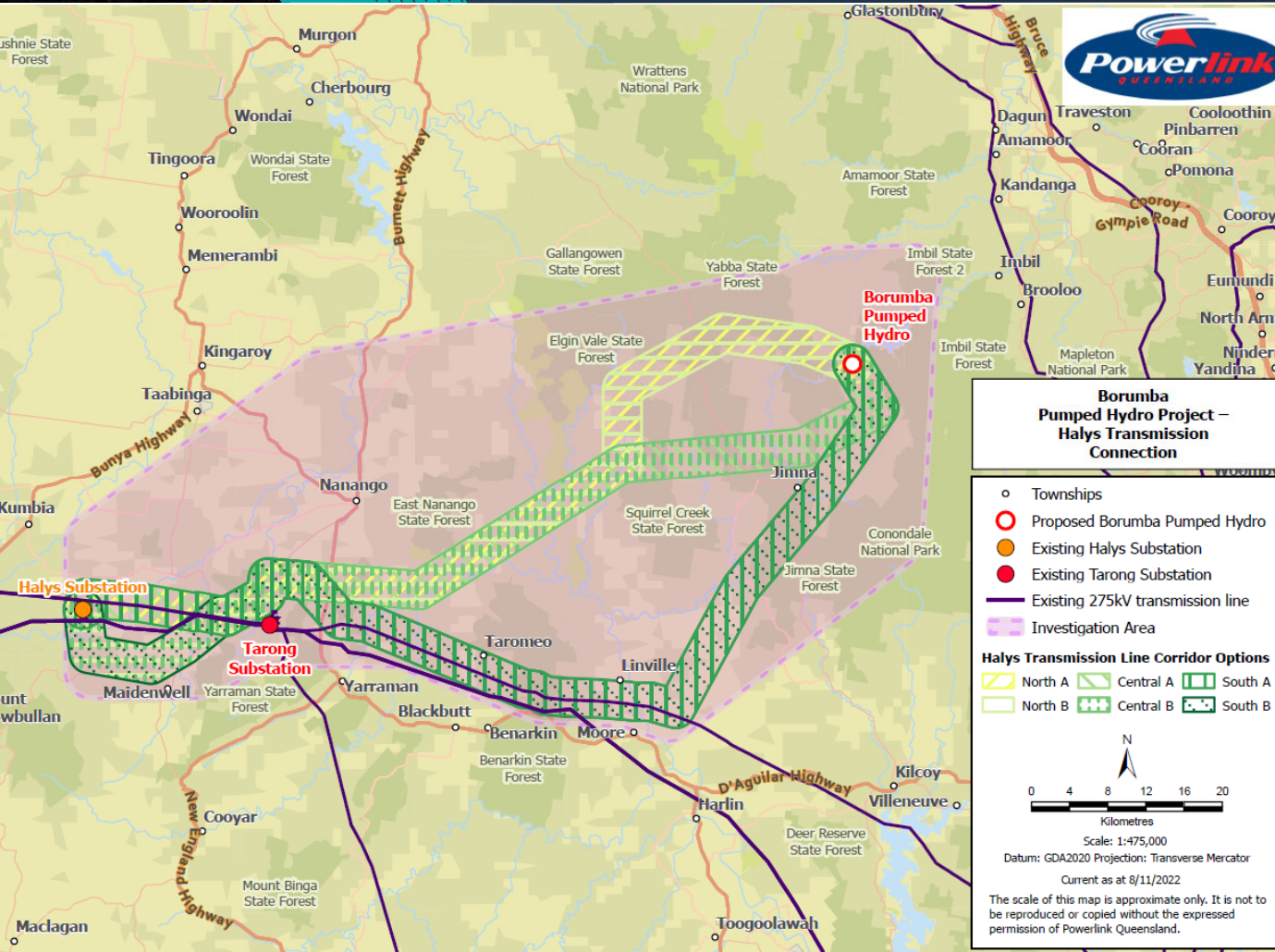
- New line to connect into Woolooga Substation
- Three options proposed
  - Woolooga West Option
  - Woolooga Central (with options A & B)
  - Woolooga East (with options A & B)
- Corridor options extend areas near Brooloo, Imbil, Kandanga, Amamoor, Dagon, Glastonbury, Lower Wonga, Widgee and Kilkivan
- Some impact on intensively cultivated areas
- Opportunity to follow property boundaries
- Potential impacts to remnant vegetation

# Tarong Transmission Line Corridor Options



- New line to connect into Tarong Substation
- Three options proposed:
  - Tarong North (with options A & B)
  - Tarong Central (with options A & B)
  - Tarong South Option
- Corridor extends areas near Nanango, Jimna and Linville
- Opportunity to co-locate with existing lines
- Some impact on intensively cultivated areas
- Opportunity to follow property boundaries
- Potential impacts to remnant vegetation

# Halys Transmission Line Corridor Options



- New line to connect into Halys Substation
- Connection to Halys follows a similar corridor proposed for Tarong
- Three options proposed:
  - Halys North (with options A & B)
  - Tarong Central (with options A & B)
  - Tarong South (with options A & B)
- Opportunity to co-locate with existing lines
- Some impact on intensively cultivated areas
- Opportunity to follow property boundaries
- Potential impacts to remnant vegetation

# Factors affecting route selection

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

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



# Community information drop-in sessions – January and February 2023

<b>Tuesday 17 January   10am–1pm</b> <b>Widgee</b>	<b>Tuesday 31 January   10am–1pm</b> <b>Imbil</b>
<b>Tuesday 17 January   3pm–6pm</b> <b>Kilkivan</b>	<b>Tuesday 31 January   3pm–6pm</b> <b>Manumbar</b>
<b>Wednesday 18 January   10am–1pm</b> <b>Gympie</b>	<b>Wednesday 1 February   10am–1pm</b> <b>Yarraman</b>
<b>Wednesday 18 January   3pm–6pm</b> <b>Amamoor</b>	<b>Wednesday 1 February   3pm–6pm</b> <b>Maidenwell</b>
<b>Thursday 19 January   10am–1pm</b> <b>Moore</b>	<b>Thursday 2 February   10am–1pm</b> <b>Kumbia</b>
<b>Thursday 19 January   4pm–7pm</b> <b>Kilcoy</b>	<b>Thursday 2 February   3pm–6pm</b> <b>Nanango</b>

More sessions will be held following release of Draft Corridor Selection Report in late March 2023.

**Thank you for your attendance**

# CONTACT

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