

Introducing the Northern Transmission Project

ElectraNet's Northern Transmission Project (NTx) is being considered to support our State's economic growth, enabling large-scale renewable energy projects and strengthening transmission links for industrial expansion.

South Australia's electricity needs are growing, and we still have significant untapped renewable energy generation potential. To ensure we have reliable, affordable and sustainable energy into the future, our high voltage network capacity needs to be increased.

What is NTx?

The project is considering the best solution for the construction of two new high-capacity transmission lines – one from the Mid North to Greater Adelaide and another from the Mid North to the Upper Spencer Gulf (Whyalla) – supporting economic development, enhancing network resilience and future-proofing Adelaide's electricity supply.

This is expected to deliver significant benefits for our State, including:



Enabling industrial and economic development by expanding energy transfer capacity into Adelaide and to the State's North.



Accelerating renewable energy adoption by improving the flow of wind and solar power into the grid, ensuring greater access to clean energy.



Enhancing energy security by providing an alternate transmission route to Adelaide, reducing the risk of disruptions from extreme weather events, such as bushfires.



Supporting South Australia to achieve 100% net renewable energy as we continue our transition away from fossil fuels for electricity generation.



Working with impacted communities to identify a range of shared benefits that align with local priorities and can be delivered over time.



Supporting economic growth and opportunities for new investment and jobs in regional South Australia.





Route Selection considerations

As we undertake a Route Selection process, we will work closely with stakeholders and communities to identify issues, aspirations and local priorities to inform our work. As we do so, we will be led by the project's Guiding Principles:

Meaningful Engagement

We engage with stakeholders and communities to understand what matters to you and to inform our decision-making

Protecting land and place

We protect what is environmentally, culturally and socially important

Delivering tangible benefits

We deliver tangible benefits for local communities, customers and South Australia

Transparent decision-making

We are transparent in our decision-making

Value for money

We deliver value for money solutions for South Australians and energy customers

Key updates and community involvement

We are always keen to hear what's important to you and your feedback will be welcomed throughout the project lifecycle.

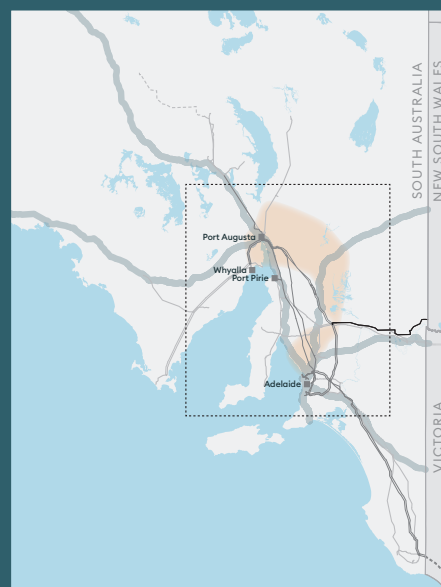
There will also be particular project milestones where we invite specific input from the community. The first of these relates to route selection, as we ask what needs to be considered and prioritised in our planning.

To provide your feedback, please contact us:

✉ NTx@electranet.com.au

☎ 08 8404 7490

🌐 NTxProject.com.au



Why do we need this Project?

With the decarbonisation of South Australia’s economy, our reliance on electricity is increasing. This means our transmission network’s capacity needs to increase too, ensuring more power can flow where it’s needed.

The Australian Energy Market Operator (AEMO) identified NTx as an ‘actionable project’ in its 2024 Integrated System Plan (ISP). This means ElectraNet must plan upgrades to the transmission network to meet the long-term needs of energy consumers.

The Commonwealth Department of Climate Change, Energy, the Environment and Water has also recognised NTx as a priority energy project.

ElectraNet will now undertake a rigorous cost-benefit analysis of the project, known as the Regulatory

Investment Test for Transmission (RIT-T). This assessment ensures the project delivers the best value for electricity consumers, balancing costs with long-term economic and energy benefits.

Comprehensive project investigations and engagement is now underway to inform early planning and route selection as part of the RIT-T, ensuring feedback on local priorities and concerns are included in our assessments.

The project will only proceed if it can be economically justified as beneficial to customers, based on the RIT-T assessment, which is verified by independent approval from the Australian Energy Regulator (AER).

Project Phases and Timeframes



What NTx aims to achieve for local communities and South Australia



What we heard and how your feedback shaped the draft route selection



The selected route for NTx and the outcomes of our assessments



How our construction will interact with the community and environment



Project completed and new infrastructure energised

What we want you to know

What do we need to consider as we develop the project?

What we want you to tell us

Your views on the draft corridors and how we should assess and manage potential impacts?

With the route selected, what do we consider to manage impacts and realise benefits?

How are we managing construction and what could be improved?

Regular feedback on our operations, as needed

Working with our communities

ElectraNet is committed to building strong long-term relationships with our stakeholders, working closely with local communities, landholders, businesses and industries, including agriculture and renewable energy.

To ensure we achieve balanced solutions that support both local priorities and South Australia’s energy future, a detailed engagement process is underway to shape early planning on NTx.

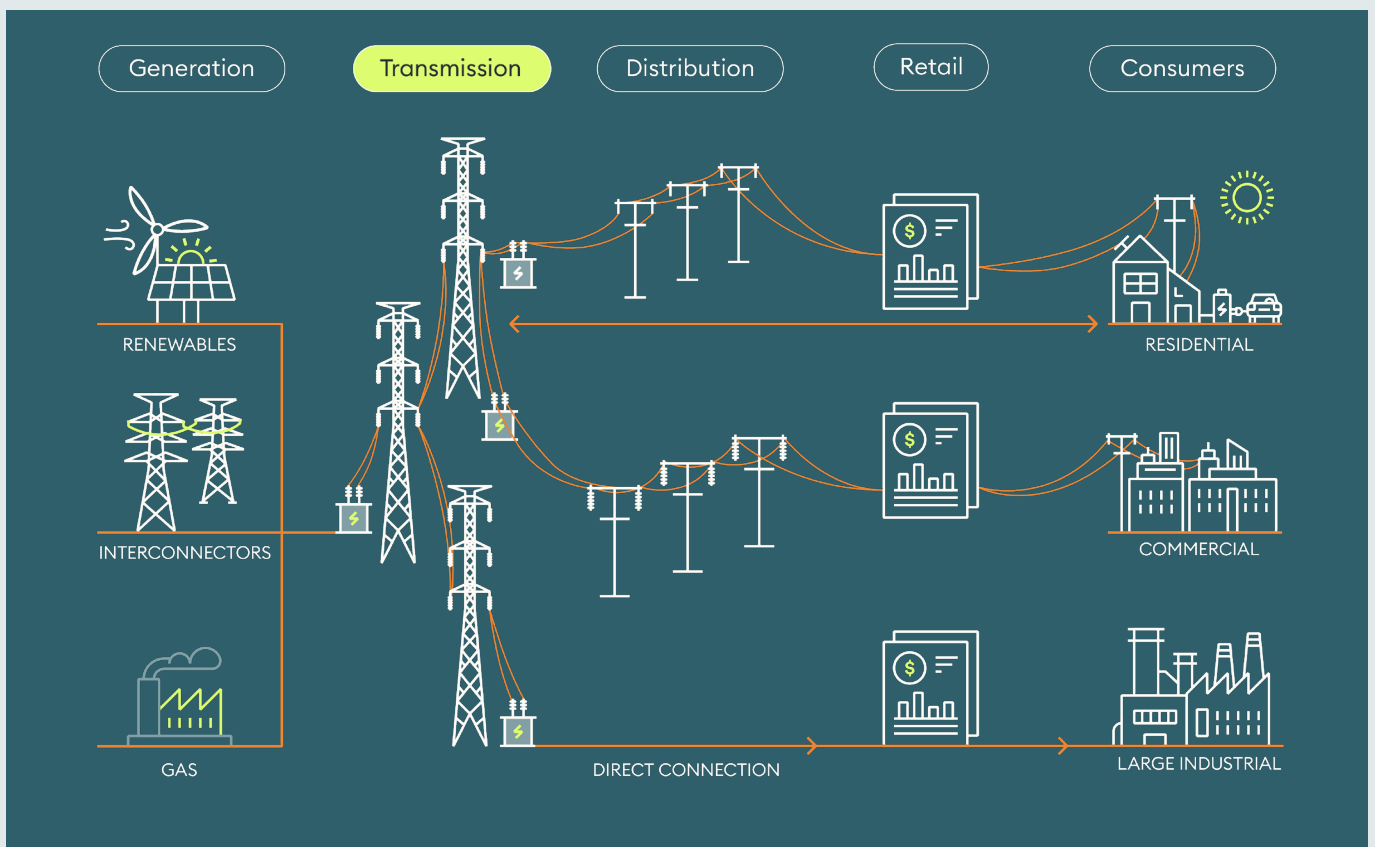
Engagement will continue throughout the project lifecycle, with opportunities to provide targeted feedback at specific intervals and ongoing dialogue maintained throughout.

What you tell us will guide our work, helping us to minimise potential disruptions and maximise project benefits.

Who is ElectraNet?

ElectraNet is the owner and operator of South Australia’s electricity transmission network, which transports energy from large generation sources to where it’s needed to serve electricity customers. Our infrastructure underpins the State’s economic growth by supporting increasing industrial energy demands while enabling the transition to a cleaner energy future.

With a majority of our electricity already sourced from renewables and a target of 100% net renewable energy, we’re committed to strengthening the grid, maintaining security of supply and delivering the transmission solutions needed to power the State’s industries and economy.



ElectraNet’s high voltage network delivers electricity from large generators to customers together with SA Power Networks’ distribution network and large industrial customers.

Key updates and community involvement

ElectraNet is committed to keeping communities informed and we welcome your feedback and insights.

Updates on NTx and the engagement process will be available on our project website at NTxProject.com.au

For more information or to sign up for regular project updates, please contact us.

NTx@electranet.com.au 

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