

Supply to Western Sydney Priority Growth Project

Kemps Creek Substation

Fact sheet April 2026

Building reliable electricity for Western Sydney and the Aerotropolis precinct for decades to come.

What is the project?

Transgrid is planning to construct a new 330/132kV substation immediately south of its existing Kemps Creek 500kV substation.

Why is the project needed?

Western Sydney is one of the fastest growing regions in Australia and studies show if we don't act, demand for electricity will outstrip capacity in coming years. The new substation will support the growing electricity needs across the Western Sydney Priority Growth Area, including the Western Sydney International Airport.

The project will:

- Provide safe, reliable electricity to support Western Sydney's growth.
- Enable connection of lower cost renewable energy sources across NSW.
- Power the Aerotropolis precinct which will create 200,000 jobs.
- Reduce risk of network constraints and improve system resilience.

What the works include

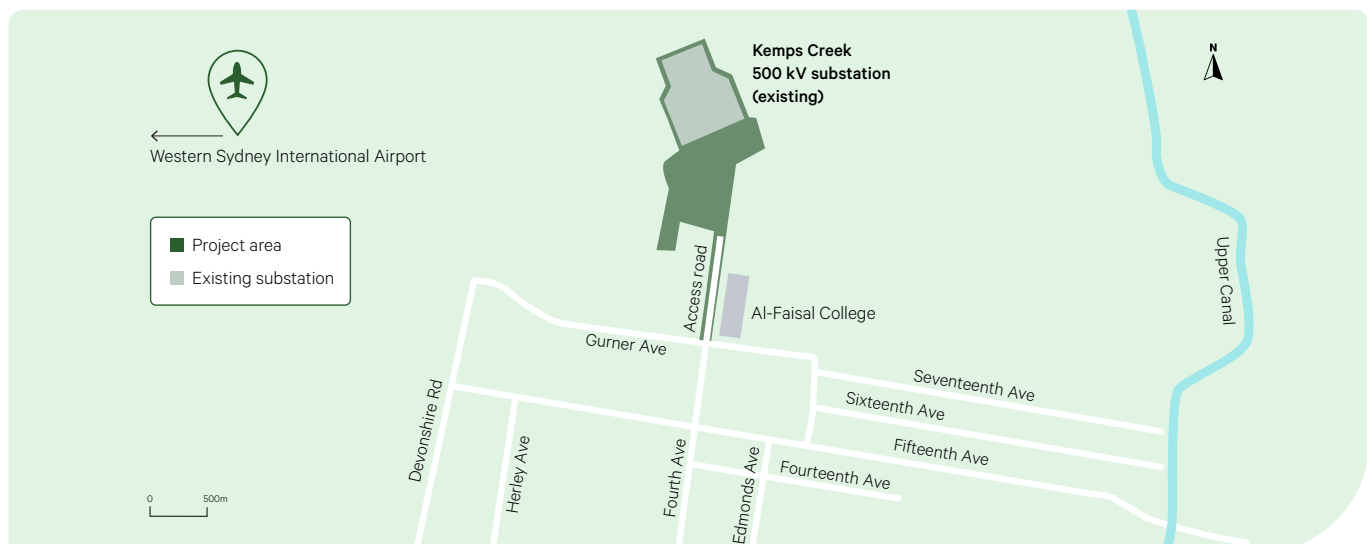
- Constructing a new 330/132kV substation.
- Minor upgrades within the existing 500/330kV substation.
- Transmission line connections between the two substations.
- Upgrading of the existing access road.
- Creating compounds and laydown areas to store plant and materials during construction.

What process was followed to decide a new substation was needed

Transgrid worked with Endeavour Energy to undertake a Regulatory Investment Test for Transmission (RIT-T) to determine that constructing a new substation was the most prudent and efficient option for ensuring supply to Western Sydney Priority Growth Area, including Western Sydney International Airport.

The RIT-T is a cost-benefit analysis administered by the Australian Energy Regulator. It is designed to provide options that will deliver the highest net economic benefits to all those who produce, consume and transport electricity in the market, whilst meeting supply reliability standards.

Through the test, we found that building a new 330/132kV substation was determined to be the best option to ensure ongoing supply for the growing region.



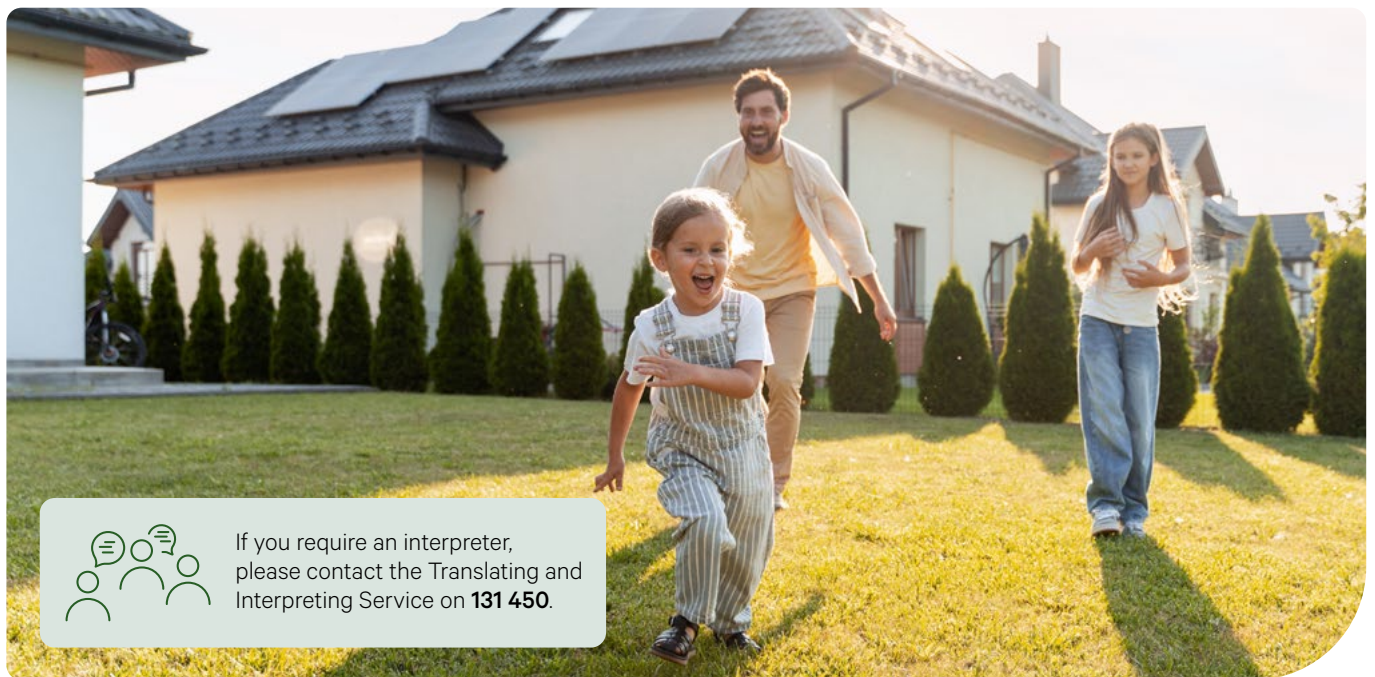
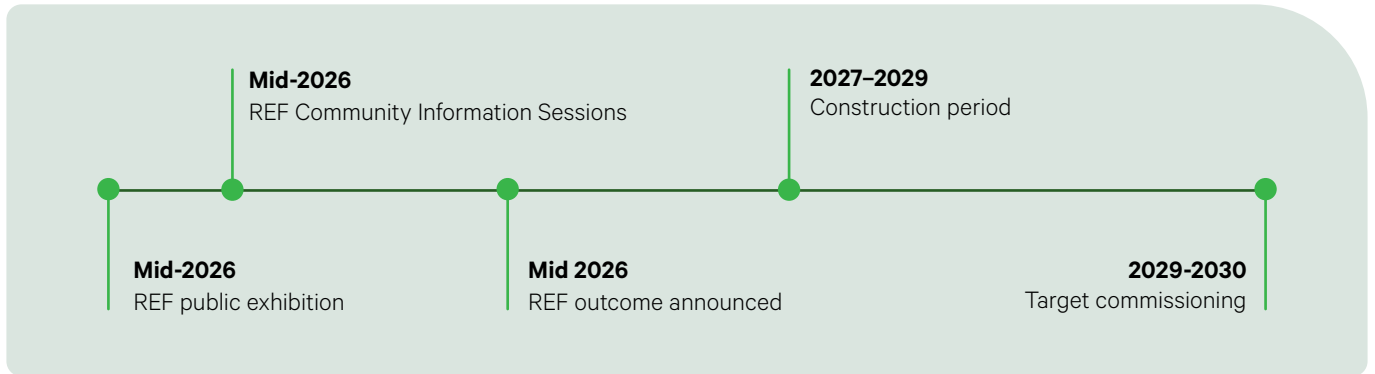
Environmental assessment

A Review of Environmental Factors (REF) is being prepared to assess potential environmental and community impacts. This includes studies on ecology, indigenous heritage, water, traffic, noise and visual impacts plus mitigation measures to reduce those impacts. The REF will be publicly exhibited on Transgrid's website in mid-2026.

How can I make a submission and provide input?

Transgrid is committed to genuine and transparent engagement with traditional owners, stakeholders, local communities and landowners throughout the delivery of the project. You are invited to review the REF and provide a formal submission. Submissions are welcomed for a period of 20 business days following the publication of the REF. Further details on how to make a submission will be provided on the project webpage closer to the date of REF publication. All submissions will be considered before final project approvals. Your input will help shape how the project is delivered.

Key project dates



If you require an interpreter, please contact the Translating and Interpreting Service on **131 450**.

Connect with us

Transgrid is committed to working with landowners and communities as we deliver on the Government's energy transition. We want to find solutions that work for everyone. **Please contact us for more information.**



Email: network.solutions@transgrid.com.au
Phone: 1800 222 537
(24/7 hotline; responses during business hours)



Scan the QR code to view the project webpage

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