

Kemps Creek Substation

Review of Environmental Factors – Community Summary June 2026

Building safe and reliable electricity for Western Sydney Priority Growth Area and the Aerotropolis precinct for decades to come.

Why is the project needed?

Western Sydney is growing rapidly, with new residential, industrial and commercial development underway. Existing electricity infrastructure in the area is reaching its capacity.

Without upgrades, power supply could become less reliable and future development could be constrained. This project will help ensure there is enough electricity capacity to support future growth while maintaining a reliable network.

What is proposed?

Works proposed include:

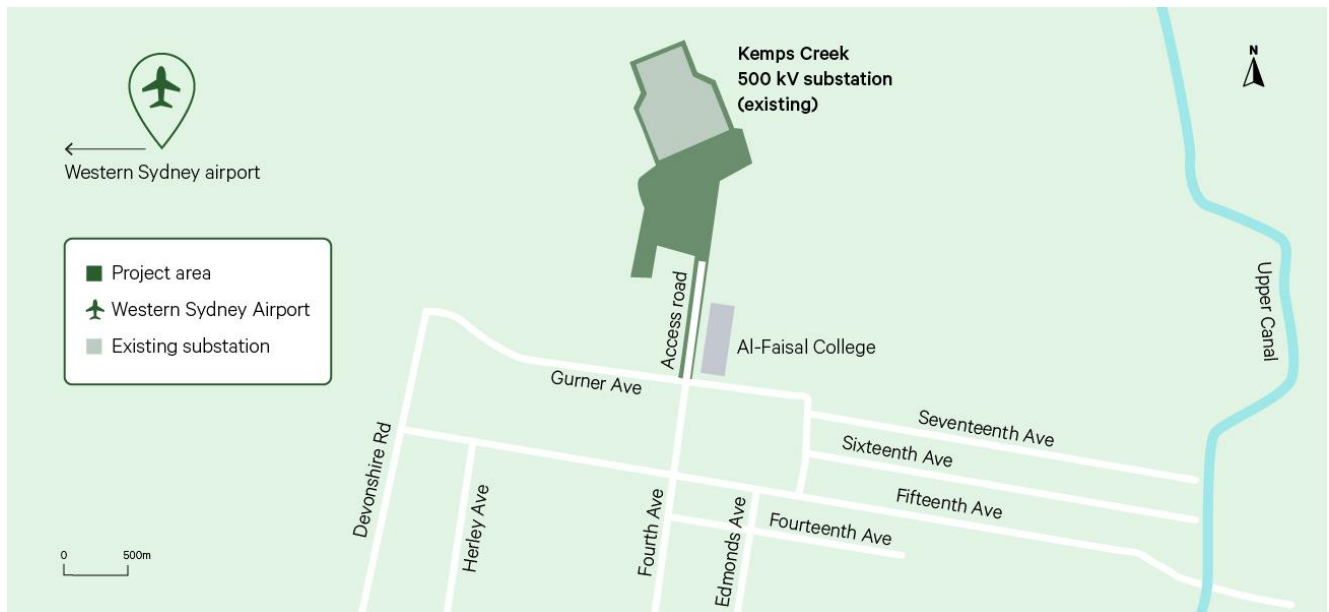
- A new 330kV substation, also known as a Bulk Supply Point, to the south of the existing Kemps Creek 500kV substation.
- Minor modifications to the existing Kemps Creek 500kV substation.
- Transmission line works to connect the existing 500kV substation to the new 330kV substation.



Photomontage of proposed substation looking from the south

Benefits for the community

- 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.



Map showing indicative location of project

The Environmental Assessment Process

Transgrid has prepared an environmental assessment, in the form of a [Review of Environmental Factors \(REF\)](#), in accordance with Part 5 of the *Environmental Planning & Assessment Act 1979*. The proposal is permitted without development consent under the NSW Government's [Transport and Infrastructure State Environment Planning Policy](#).

Transgrid will be the determining authority for the project.

The REF determines whether impacts are significant and if an Environmental Impact Statement (EIS) is required. The REF has concluded that the project is not likely to significantly affect the environment, so an EIS is not required. In addition, the REF has concluded that the project is not likely to significantly affect threatened species, communities and/or their habitats and therefore a Biodiversity Development Assessment Report (BDAR) or Species Impact Statement (SIS) is not required.

Transgrid has carried out a number of key studies in the REF to assess potential environmental impacts from the project and proposed mitigation measures to avoid or minimise those impacts.

What studies were carried out as part of the REF?

Transgrid carried out a range of environmental and community studies to understand potential impacts. Key findings of the studies are below.

Area	Key findings	Mitigation measures
Ecology i.e. plants, animals and biodiversity	<ul style="list-style-type: none"> Some vegetation will need to be cleared, including native woodland. Habitat for local species will be affected in construction areas. 	<ul style="list-style-type: none"> Limiting vegetation clearing where possible. Pre-clearance surveys for threatened flora and fauna. All works would occur within bio certified land i.e. impacts have already been considered and offset through state planning legislation.
Aboriginal and cultural heritage	<ul style="list-style-type: none"> No Aboriginal heritage sites were identified within the project area. The area has been heavily disturbed previously. 	<ul style="list-style-type: none"> Safeguards are in place if any indigenous artefacts are discovered during construction.
Noise and vibration	<ul style="list-style-type: none"> Construction noise will be temporarily higher near the site. 	<ul style="list-style-type: none"> Installing noise walls around the transformers to mitigate operational noise and reduce noise to within approved noise levels. Using quieter equipment during construction where possible. Planning construction traffic routes carefully. Ongoing stakeholder consultation to help reduce impacts
Hydrology and water quality	<ul style="list-style-type: none"> Construction activities could affect water quality if not controlled. 	<ul style="list-style-type: none"> Erosion and sediment controls. Stormwater management systems.
Traffic and access	<ul style="list-style-type: none"> There will be an increase in vehicles during construction. Large equipment deliveries would occur outside peak hours. 	<ul style="list-style-type: none"> Keeping the community informed. Avoiding peak times where possible. Traffic planning.
Visual impacts	<ul style="list-style-type: none"> Existing well-established vegetation will screen the proposed site, mainly, to east and west. Construction activities (machinery and cranes) will be visible for a time. 	<ul style="list-style-type: none"> Limiting vegetation clearing. See 'Further plans for the area' in next section.

Area	Key findings	Mitigation measures
Visual impacts (cont.)	<ul style="list-style-type: none"> The completed substation will likely be visible from some nearby areas, mainly from the south. The new substation will be set back approximately 180 m from properties to the south. Low long-term visual impact consistent with existing infrastructure. 	
Social and community impacts	<ul style="list-style-type: none"> Nearby residents and facilities (including local school) may experience temporary noise and in-creased traffic during construction. Long-term benefits include improved electricity supply and support for growth. 	<ul style="list-style-type: none"> Keeping the community informed. Providing opportunities for feedback. Responding to concerns throughout the project.

Further plans for the area

Endeavour Energy is planning to build a smaller substation, referred to as the Austral Zone substation, to the south of Transgrid's proposed Kemps Creek Bulk Supply Point. This substation will support safe and reliable distribution of electricity to the growing number of homes and businesses across the South West Priority Growth Area and Aerotropolis. A Review of Environmental Factors will be prepared for the proposal and made available on Endeavour Energy's website for public comment around late 2026/ early 2027. Construction of the substation is expected to occur following completion of Transgrid's proposed substation. For further information about the Endeavour Energy substation please refer to Endeavour Energy's website: <https://www.endeavourenergy.com.au/community/our-projects/western-sydney-aerotropolis>

Have your say

Local community members, councils, stakeholders, community groups and organisations are encouraged to view the REF during the public exhibition period and to have their say by making a submission.

You can make a submission during the public exhibition period from 11 July 2026 to 10 July 2026.

Once you have reviewed the REF materials, you may provide feedback on the REF via a submission directly to Transgrid. Your feedback will be considered before a final decision is made.

How to make a submission

Email

network.solutions@transgrid.com.au

Mail

Transgrid Environmental Planning Dept
Level 2 180 Thomas Street
Sydney NSW 2000

All submissions must be received before the exhibition closing date on 10 July 2026.

Submissions will be summarised in the Submissions Report published on the Transgrid website.

Submitters will remain anonymous in the report.

Community Information Sessions

Please drop in to speak with us about the project.

Community Information Session 1

Carnes Hill Marketplace (near Woolies)

Cnr Cowpasture and Kurrajong Roads

Carnes Hill NSW 2171

Thursday 18 June 2026

Time: 4pm to 9pm

Community Information Session 2

Carnes Hill Marketplace (near Woolies)

Thursday 25 June 2026

Time: 4pm to 9pm

Key project dates



Connect with us

Transgrid is committed to working with landowners and communities throughout the delivery of the project. Please connect with us for more information.

Email: network.solutions@transgrid.com.au

Phone: 1800 222 537 (24/7 hotline)



Project webpage: <https://www.transgrid.com.au/projects-innovation/supply-to-western-sydney-priority-growth-area/>