

# EnergyConnect

## Geotechnical investigations

FACT SHEET

### EnergyConnect

EnergyConnect is an energy infrastructure project that will lower power bills for homes and businesses and create 1,500 jobs, primarily across regional NSW.

The Australian energy landscape is transforming, with an increased focus on renewable energy sources. To connect Australian communities and businesses to these new energy sources, the national electricity grid needs to evolve.

EnergyConnect will deliver the infrastructure to support this evolution by connecting the energy grids of NSW, SA and Victoria with a new 900 km electricity transmission line, known as an interconnector.

The proposed interconnector would run between Wagga Wagga in NSW and Robertstown in SA, with a connection to Red Cliffs in VIC.

### Geotechnical investigations

We are undertaking geotechnical investigations to understand the local ground conditions. These investigations are an essential part of a new transmission line design.

The surveys will take place on both public and private land. If access to private land is required, we will seek landowner consent.

Transgrid will seek all necessary permits and approvals prior to starting any works. These will include environmental assessments, cultural heritage clearances and landowner consent.

### What to expect

Transgrid representatives will work with landowners to understand their expectations and requirements before undertaking the proposed activities on their land. After all necessary permits and approvals are in place, the team will schedule work in the survey area as agreed with the landowner. Soil and rock data or samples will be taken using low impact methods, such as small diameter borehole drilling and cone penetration tests.



On-site soil analysis

## Borehole drilling

- The vehicles used on site are usually a small truck or ute-mounted rig and a support vehicle.
- The work area is usually 15 m x 10 m, but may vary depending on the specific investigation and terrain.
- Drilling depths will vary from 10 m – 20 m and will not impact sub-surface water tables or aquifers.
- The hole drilled is 10 cm – 15 cm in diameter and at completion the hole is backfilled, capped and covered.
- The time taken to drill varies, however it will generally be completed in one day.

### Who does the borehole drilling?

There may be up to five people on site – a lead driller, a drilling hand, an engineering geologist and at times, a cultural heritage expert and a Transgrid supervisor.

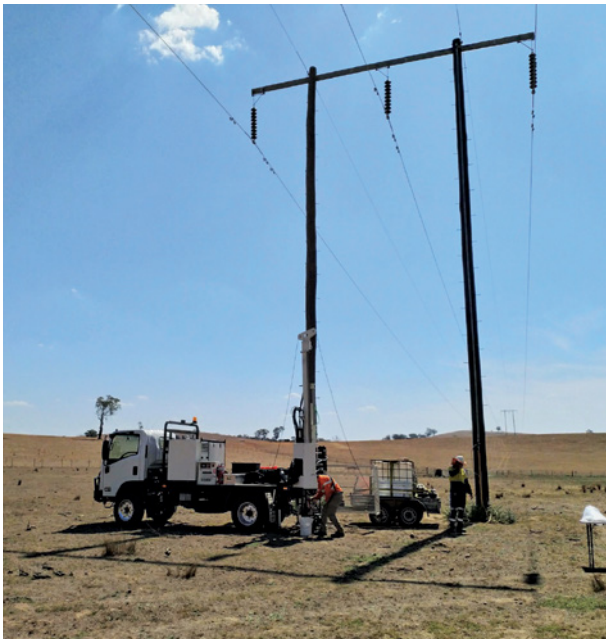
## Cone Penetration Tests (CPTs)

- A CPT rig (similar to a small truck) will be required on site with a support vehicle, which is typically a 4WD.
- The work area is usually 15 m x 10 m, but may vary depending on the specific investigation and terrain.
- The CPTs involve a cone sensor attached to a steel rod (about 5 cm in diameter) being pushed to a depth of 10 m – 20 m.
- The time taken to conduct the test varies, however it will generally be completed in one day.

### Who does the cone penetration tests?

There may be up to five people on site – a CPT rig operator, an engineering geologist and at times, a cultural heritage expert and a Transgrid supervisor.

Truck-mount borehole drill rig on site



CPT rig on site with support vehicle



---

## Connect with us

Transgrid is committed to working with landowners and communities through the construction of EnergyConnect. Please connect with us if you need any information.



1800 49 06 66 (free call)  
pec@transgrid.com.au  
[transgrid.com.au/energyconnect](https://transgrid.com.au/energyconnect)

Subscribe to our project newsletter at  
[transgrid.com.au/ecsubscribe](https://transgrid.com.au/ecsubscribe)