

PROJECT ENERGYCONNECT

Geotechnical investigations

Project EnergyConnect

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.

Part of this evolution is the construction of a transmission line, known as an interconnector, connecting New South Wales, South Australia and Victoria.

The proposed interconnector would be around 900km long and run between Wagga Wagga in NSW and Robertstown in SA, with a connection to Red Cliffs in VIC.

Geotechnical investigations

TransGrid is undertaking geotechnical investigations to understand the local ground conditions.

These investigations are an essential part of the design of a new transmission line.

The surveys will take place on both public and private land. If access to private land is required, consent will be sought from the landowner.

TransGrid will seek all necessary permits and approvals prior to commencement of 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 prior to 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

**Connect
with us**

1800 49 06 66 | pec@transgrid.com.au
transgrid.com.au/energyconnect





Truck-mount borehole drill rig on site



CPT rig on site with support vehicle

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 15m x 10m, but may vary depending on the specific investigation and terrain
- Drilling depths will vary from 10m–20m and will not impact sub-surface water tables or aquifers
- The hole drilled is 10cm–15cm 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 15m x 10m, but may vary depending on the specific investigation and terrain
- The CPTs involve a cone sensor attached to a steel rod (about 5cm in diameter) being pushed to a depth of 10m–20m
- 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.

Connect with us

TransGrid is committed to working with landowners and communities to understand local considerations that can be taken into account in developing the proposed route for Project EnergyConnect.

To share your views or find out more about Project EnergyConnect, please connect with us.

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

