

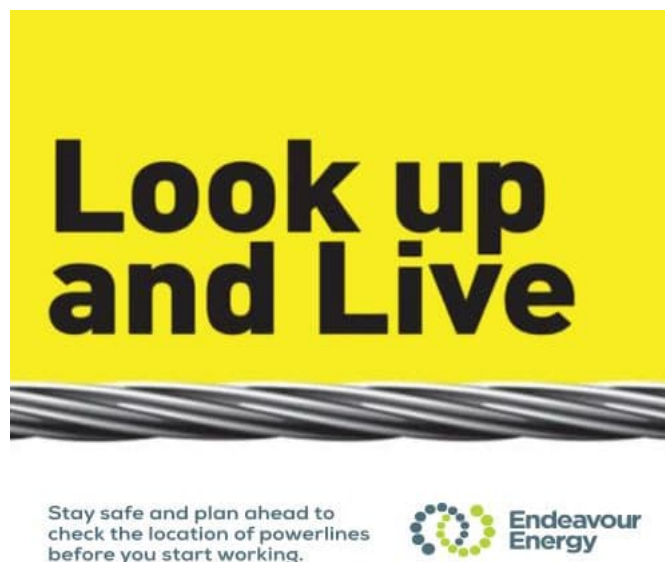


General Restrictions Applying to Activities Near Overhead Powerlines

This guideline provides advice on general restrictions that apply to all development proposed **near or under Endeavour Energy overhead powerline assets**.

Overhead powerline assets may be **protected by a registered easement or may only have statutory protection under the Electricity Supply Act 1995**. Both forms of protection will be referred to as an **'easement'** in this guideline.

The purpose of this guideline is to ensure protection of the electricity assets, Endeavour Energy staff, landowners, the public generally and employees of businesses who may be working near the powerline. Endeavour Energy recommends landowners and developers adopt the **'prudent avoidance'** approach in the use and development of land where an overhead powerline or easement may be impacted.



All electrical incidents must be report immediately to Endeavour Energy's Emergency Assistance on 131 003

It should be noted that these guidelines are of a general nature only and that this information must be read in conjunction with the requirements of the Work Health and Safety (WH&S) Act legislation and SafeWork NSW requirements together with the National Construction Code and relevant Australian standards.

All works proposed in a powerline easement or under a powerline should be referred to Endeavour Energy to ensure the safety component of the works has been considered and assessed against Endeavour Energy's standards.

Approval to encroach into the easement will not be granted where the proposal;

1. may place people in harm of injury or death from the electricity asset; or
2. there is an alternate site outside of the easement for the proposal; or
3. impacts the safe operation of the electricity asset; or
4. restricts access for maintenance and construction purposes to the electricity asset.



All approvals granted will be subject to conditions the owner must agree to including the provision of provide clear unobstructed access to Endeavour Energy staff when required for maintenance, or construction or emergency works.

More information about Endeavour Energy's easements and landowner rights and responsibilities can be found in the "Living with Easements" brochure on our web site at this link -

https://www.endeavourenergy.com.au/_data/assets/pdf_file/0029/58835/Endeavour-Energy-Living-with-Easements-Sep23.pdf.

Generally, the following types of development or activity is prohibited within an easement containing overhead powerlines and will not be approved.

1. Habitable buildings (permanent or temporary) e.g., Houses, site-sheds with sleeping quarters, shipping containers, other substantial structures, or parts thereof, includes eaves, guttering and footings.
2. Non-habitable buildings that exceed a height 2.5m or have electrical power connected, or store corrosives, explosives, combustibles, or flammables.
3. Fencing or walls made of brick or other masonry materials.
4. Swimming pools or spas.
5. Any type of structure or activity located within 10 metres of the leg of a steel tower structure and a 5 metres radius around a pole.
6. Changes to ground levels of an easement that reduces the electrical safety clearance of the powerline conductors to an unsafe distance or impacts the stability of a pole or tower structure.
Statutory safety clearances which is the distance between the ground and the conductors must be always maintained to avoid accidental electrification.
7. The loading or unloading of trucks within the safety clearances area of a powerline.
8. The parking or operation under the conductors, of vehicles and plant with elevating or extending components such as earth moving vehicles, forklifts, dump trucks, crane and hoist trucks.
Note: Concrete pumping vehicles must not operate within the easement.
9. The storage, loading, or unloading of soil or other material within the easement.
10. The storage or stacking of goods or materials that are flammable, combustible, corrosive, or explosive, such as gas bottles, or oil waste etc., within the easement.
11. The storage of garbage or building refuse or fallen timber within the easement.
12. The burning of timber, trees, vegetation or rubbish within the easement.
13. The erection of flagpoles, CTV cameras, security lighting, weathervanes, illuminated signs within the easement.



Activities or development that will be considered by Endeavour Energy and will be subject to written conditional approval by Endeavour Energy before proceeding.

Any development or activity not listed above may be acceptable in an easement subject to prior written approval being obtained from Endeavour Energy.

Examples of development or activity which may be permitted within a powerline easement are;

1. Installation of overhead or underground utility services. ie. power, telephone, gas, water, sewerage
2. Ground level carparks
3. Earthworks, roads and footpaths
4. Detention basins and rainwater tanks
5. Agricultural pursuits
6. Safety barriers
7. Garages, shed and non-habitable buildings that do not exceed the height of 2.5m

A request for an approval to use or develop land in an easement must be in writing and emailed to easement@endeavourenergy.com.au

The request must be accompanied by a plan showing details of the proposal drawn to scale, and fully dimensioned showing property boundaries, the easement and the overhead powerline conductors and poles or towers and any other relevant information that will help Endeavour Energy's Easement Officer consider the proposal.

If an approval is granted, it will be a conditional approval subject to the landowner agreeing to certain conditions.

If the proposal is changing the ground levels within the easement or under the powerline conductors, the applicant must engage the services of a Level 3 ASP approved to work on the Endeavour Energy's Network to certify the earthworks will not impact the ground to conductor safety clearances as specified in Endeavour's Standards and the Australian Standards. Information on the ASP Scheme can be obtained at <https://www.energy.nsw.gov.au/nsw-plans-and-progress/regulation-and-policy/asp-scheme-and-contestable-works>.

A copy of the certification and associated plans are to be sent to Endeavour Energy's Easement Officers who will then provide an approval for work to proceed in the easement. The ASP will also need to provide, upon completion of work, confirmation that the works have been completed in accordance with their certification.

If the Level 3 ASP cannot confirm compliance will be achieved, the applicant may need to do an asset relocation and must lodge an application with Endeavour Energy's Customer Network Solutions (CNS) branch for approval.

Overhead Powerline Easement and Fences.

Endeavour Energy will permit fencing to be erected within an overhead powerline easement subject to;

1. A height limitation of 2.5 metres
2. Ensuring conductive fencing is effectively earthed and/or have interval breaks in electrical continuity
3. Fencing does not encroach within 5m of any asset without written permission
4. Ensuring 24/7 access is available for emergency and maintenance purposes of the powerline
5. Provision of an opening or gate a minimum of 4.2m wide for vehicle access
6. Provision for an Endeavour Energy lock being incorporated in the locking system
7. Fencing must not be made of brick or other masonry materials
8. Fencing must not create an unsafe working condition for Endeavour Energy staff



General Information about working near overhead powerlines.

1. Vehicles, plant, or equipment having a height when fully extended that exceeds 4 metres shall not be brought onto an easement area without the prior written approval of Endeavour Energy.
2. Minimum approach distances of plant and loads to Endeavour Energy live electrical apparatus for non-authorised persons is 3 metres. The operator of the plant must be able to identify the voltage level of the apparatus that they are approaching with the plant or assume 8 metres as a minimum.
3. Extreme caution is to be observed when working within easements and around any structures, poles or overhead conductor wires.
4. Before You Dig Australia, service plans are required to check for underground utilities prior to any excavations works. byda.com.au or 1100 for assistance.
5. All personnel are to be advised of the hazards of working near high voltage overhead conductors or underground cables.
6. All machinery or plant within an electricity easement is to be operated by appropriately trained, accredited and licenced persons.
7. Endeavour Energy recommends the use of a suitably trained safety observer when work is being carried out within the easement area.
8. A hazard identification and risk assessment should be carried out within the easement area. A safe work method statement should be provided for any work carried out within the easement area. All staff should be briefed regularly, or when there are any changes, as to the contents of the risk assessment and safe work method statement.
9. For the attention of staff and visitors to the site and to ensure constant vigilance, Endeavour Energy recommends that clearly visible safety signs be erected, in accordance with the relevant safety standards, alerting attention to the transmission lines and associated hazards.
10. Any metallic fencing within the easement or under an overhead powerline should be earthed and isolated in accordance with the Australian Standards AS3000-2018
11. Access to Endeavour Energy's assets is NOT to be restricted whilst always maintaining safe clearances.
12. Any proposed structures must not exceed 2.5 metres in height if climbable and 4.3m if not climbable.
13. Trees, plants, or shrubs with a *mature height* that do not exceed 3m may be planted within the easement area provided they are no closer than 5m from the nearest pole structure or 10m of a tower structure. Mature trees must be a min.3m from the vertical projection of the nearest conductor (i.e., overhead power line). No plants are permitted in an area where they may obstruct access.
14. Normal agricultural pursuits are permitted; however, care should be taken when ploughing or operating mobile machinery near structures or supporting guys. Earthing systems are particularly prone to damage from such activities. It is imperative that access to the easement area and structures be available always. Whilst reasonable care will be taken, Endeavour Energy will not be responsible for any damage to crops caused whilst accessing and working within the easement area. The restrictions applying to the heights of mobile plant and equipment must be observed.

Should you have any questions regarding the above advice, please do not hesitate to contact Endeavour Energy's Easement Officers at easements@endeavourenergy.com.au.