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**This letter is Ausgrid's response under clause 45(2) of the State Environmental Planning Policy (Infrastructure) 2007.**

Ausgrid does not object to the proposed development.

The applicant/developer should note the following comments below regarding any proposal within the proximity of existing electrical network assets.

### **Ausgrid Overhead Powerlines are in the vicinity of the development**

The developer should refer to SafeWork NSW Document – Work Near Overhead Powerlines: Code of Practice. This document outlines the minimum separation requirements between electrical mains (overhead wires) and structures within the development site throughout the construction process. It is a statutory requirement that these distances be maintained throughout the construction phase.

Consideration should be given to the positioning and operating of cranes, scaffolding, and sufficient clearances from all types of vehicles that are expected to be entering and leaving the site.

The "as constructed" minimum clearances to the mains must also be maintained. These distances are outlined in the Ausgrid Network Standard, NS220 Overhead Design Manual. This document can be sourced from Ausgrid's website at [www.ausgrid.com.au](http://www.ausgrid.com.au).

It is the responsibility of the developer to verify and maintain minimum clearances onsite. In the event where minimum safe clearances are not able to be met due to the design of the development, the Ausgrid mains may need to be relocated in this instance. Any Ausgrid asset relocation works will be at the developer's cost.

Additional information can be found in the Ausgrid Quick Reference Guide for Safety Clearances "Working Near Ausgrid Assets - Clearances". This document can be found by visiting the following Ausgrid website:

[www.ausgrid.com.au/Your-safety/Working-Safe/Clearance-enquiries](http://www.ausgrid.com.au/Your-safety/Working-Safe/Clearance-enquiries)

For new connections or to alter the existing electrical connection to the property from the Ausgrid network, the proponent should engage an Accredited Service Provider and submit a connection application to Ausgrid as soon as practicable. Visit the Ausgrid website for further details:

<https://www.ausgrid.com.au/Connections/Get-connected>

Should you have any enquiries, please contact Ausgrid at [development@ausgrid.com.au](mailto:development@ausgrid.com.au)

Regards,  
Ausgrid Development Team



# Quick Reference Guide:

## Working with Ausgrid Assets – Clearances





# Disclaimer

Ausgrid is registered as both a Distribution Network Service Provider and a Transmission Network Service Provider.

This document does not purport to contain all of the information that a prospective customer / third party would need to complete work within clearance of Ausgrid Assets.

This document, and the information it contains, may change as new information becomes available or if circumstances change. Anyone proposing to rely on or use the information in this document should independently verify and check the accuracy, completeness, reliability and suitability of that information for their own purposes.

Accordingly, Ausgrid makes no representations or warranty as to the accuracy, reliability, completeness or suitability for particular purposes of the information in this document. Persons reading or utilising this document acknowledge that Ausgrid and their employees, agents and consultants shall have no liability (including liability to any person by reason of negligence or negligent misstatement) for any statements, opinions, information or matters (expressed or implied) arising out of, contained in or derived from, or for any omissions from, the information contained in this document, except insofar as liability raised under New South Wales and Commonwealth legislation.



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# Introduction

## Important information on safe distances

Ausgrid has prepared this guide to inform anyone working on and/or around buildings or sites that are connected to or in the vicinity of electricity assets of the safe distances that must be maintained from electricity assets, overhead or underground.

Awareness of the required safety clearances could mean the difference between a safe, successful project and a potentially fatal accident.

It may also save time and money by ensuring the design of a home or building complies with the safety requirements without additional measures being taken.

The drawings in this brochure specify the minimum safety clearances for working or living near electrical assets.

Note: Full details about safe work practices, including penalties for non-compliance, are set out in:

- The WorkCover NSW document [Work near overhead power lines: Code of practice 2006](#).
- The WorkCover NSW document [Work near underground assets – guide](#).
- The Ausgrid Dial before you dig [Work near Ausgrid assets guide](#).

The requirements for maintaining safe distances from electricity assets are also set out in the State Environmental Planning Policy (Infrastructure) Regulation, 2007 (Division 5 – Electricity transmission or distribution, Subdivision 2 – Development likely to affect an electricity transmission or distribution network).

This requires local councils to seek comments from Ausgrid before approving any development application where electricity infrastructure is present.

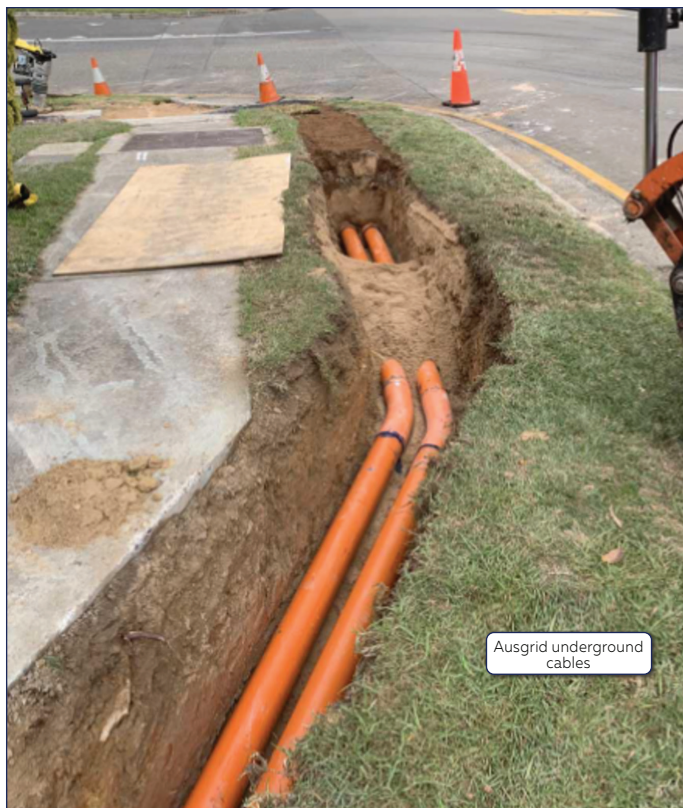




# Types Of Ausgrid Assets

The Ausgrid network is made up of substations, powerlines, underground cables and power poles, spanning 22,275 square kilometres throughout Sydney, the Central Coast and the Hunter Valley regions.

The following illustrations show a typical Ausgrid electrical network asset that may be found in residential and commercial areas, for example overhead powerlines & poles, underground cables & pillars, streetlight on a pole, or a kiosk substation.



# Ensuring You Are In The Clear

All buildings and other structures must comply with the minimum safety clearances from overhead electricity conductors.

The minimum distances from the closest conductor to the building or other structures must be maintained during strong winds or high operating temperatures. Under these conditions, the conductor can swing or sag considerably towards the building or structure.

The minimum safety clearances are shown in the illustrations in this guide.

If it appears that conductors are closer than the minimum safety clearances shown in the table, visit the [Overhead \(OH\) Clearance Enquiries](#) page on the Ausgrid Website.

## Important Considerations for Minimum Safety Clearances

If you are unsure where to start, or [Need Help To Plan](#), contact Ausgrid.

- ☐ Knock-down/rebuilds, where a small, single storey home is replaced by a larger or double storey home, or where land is rezoned to allow multi-storey construction, such as apartments or town houses.
- ☐ Moving the location of a driveway or building driveways close to pillars or poles.
- ☐ Erecting a flagpole.
- ☐ Any building work near underground and/or overhead power lines.
- ☐ Erecting a cubby house.
- ☐ Raising the ground level below existing power lines.
- ☐ Erecting metal fences or scaffolding in close proximity to poles and/or lines.
- ☐ Excavating near poles or where electricity assets potentially run underground.
- ☐ Using a crane in proximity to overhead lines.

Swimming pools are potentially unsuitable for installation near electricity assets, and should be assessed by Ausgrid.

The NSW Department of Planning, Industry & Environment also provide additional information on safety clearances via their '[Look Up and Live](#)' application that may assist you with clarity on specific requirements.



# Overhead Service Cables

Overhead services cables (sometimes referred to as service mains) are the overhead cable/s (there may be more than one) from an Ausgrid pole to a point of attachment on a building or house.

## Working with safety near the point of attachment

The point of attachment (POA) is where the electrical wires attach to a home or building. When work is being carried out near the point of attachment, special care must be taken to avoid contact with these electrical wires to avoid damaging them.

The minimum safe distance from a point of attachment is 1000mm. Care must be taken with activities such as:

- ❑ Cleaning leaves from guttering.
- ❑ Painting gutters, fascia's, and eaves.
- ❑ Pruning trees and shrubs (particularly around the electrical wires).
- ❑ Attaching aluminium cladding to the fascia's and the eaves.
- ❑ Replacing the guttering.

## Keeping your distance

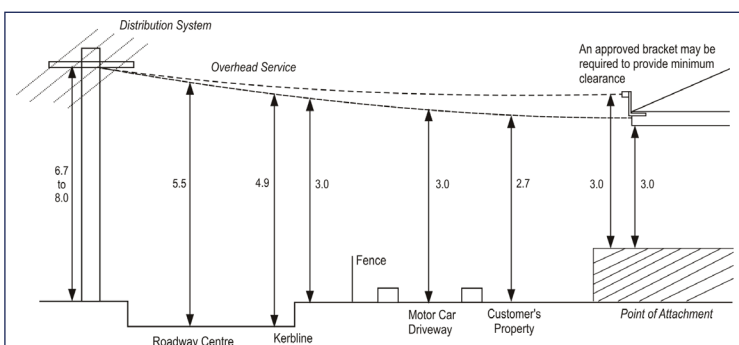
The minimum safety clearances over structures, roads and driveways are shown in the following drawings.

**Remember** – these are the minimum safe distances. In some cases, the distance may increase to ensure public safety.

## Minimum Safety Clearances for Overhead Service mains

### Side view of clearances

Note: These clearances must be achieved under all conditions (refer to Note 3 of Table 3-4). The Point of Attachment is to be 3m minimum above the ground, floor or platform level.



Additional clearance diagrams and information can be found in:

- [Ausgrid Network Standard NS220 Overhead Design Manual](#)
- [The NSW Service & Installation Rules](#)

# Minimum Clearances to Insulated Overhead Services

|    | From the insulated service conductors to the surface of:                                                                                    | Minimum clearances (metres)                                                            |
|----|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 1  | Any part of a freeway or arterial road                                                                                                      | 5.5 vertically                                                                         |
| 2  | The centre of a carriageway of a public road                                                                                                | 5.5 vertically                                                                         |
| 3  | Any part of a carriageway of a public road (other than the centre)                                                                          | 4.9 vertically                                                                         |
| 4  | Vehicular crossing of a footway in a public road (other than a residential driveway)                                                        | 4.5 vertically                                                                         |
| 5  | Vehicular crossing of a footway in a public road for a residential driveway and any other part of a footway                                 | 3.0 vertically                                                                         |
| 6  | Land which is not associated with a dwelling and which is likely to be used by vehicles, including non urban small acreages and hobby farms | 4.5 vertically                                                                         |
| 7  | Land which is, or is likely to be used by vehicles and is associated with a dwelling                                                        | 3.0 vertically                                                                         |
| 8  | Land not likely to be used by vehicles                                                                                                      | 2.7 vertically                                                                         |
| 9  | Those parts of any structure normally accessible to persons. (See Note 1)                                                                   | 2.7 vertically                                                                         |
| 10 | Any area above a roof                                                                                                                       | 1.25 metres                                                                            |
| 11 | Any area around a radio or TV aerial                                                                                                        | 1.8 in any direction                                                                   |
| 12 | Those parts of any structure not normally accessible to persons. (See Note 2) (including below a projecting slab, balcony or sign)          | 0.1 in any direction                                                                   |
| 13 | The edge of any opening window, balcony, verandah, clothes line or fence etc                                                                | Out of normal reach (see Note 4)                                                       |
| 14 | Point of attachment                                                                                                                         | 3m vertically not normally accessible without a ladder or other device (see Notes 1-4) |
| 15 | Farmland where mechanical equipment is used                                                                                                 | 5.5 vertically                                                                         |
| 16 | Trees and shrubs                                                                                                                            | 0.5 in any direction                                                                   |
| 17 | Vicinity of boat ramps, launching areas (avoid if possible)                                                                                 | 10.0 vertically                                                                        |
| 18 | Communications conductors                                                                                                                   | 0.6 in any direction                                                                   |

## Explanatory Notes:

Interpret the requirements set out in the above table as follows:

- Structure Normally Accessible to Persons includes:
  - The whole area of any flat roof accessible without the use of a ladder.
  - Any part of a hip or gable roof accessible without a ladder up to the nearest hip or gable.
  - Any portion of a balustrade or other structure which will support a person and is accessible without a ladder.
- Not Normally Accessible to Persons excludes roofs and includes any portion of a fence, balustrade, advertising sign or other structure which will not support a person or is not accessible without a ladder.
- The minimum clearances in Table 13.1.4 must be achieved under all conditions regardless of:
  - Conductor swing due to the influence of wind.
  - Conductor sag due to the influence of load current and ambient temperature.

The requirements of Table 13.1.4 may be achieved if the maximum allowable service line sag for a particular conductor size and span is added to the minimum clearance. Refer to Table 3.8 of Reference 57.

- Out of Normal Reach means 1.25m from any normally accessible position. The requirement that an overhead service must be out of normal reach of persons may be achieved in some cases by the provision of a permanent insulated barrier (consult with the electricity distributor).



# Overhead Distribution Cables

Overhead distribution cables (sometimes referred to as distribution mains) are the overhead cables that generally run from an Ausgrid pole to another Ausgrid pole, or Ausgrid electricity asset such as a substation. These are generally rated at 240, 415, 11,000 or 33,000 volts).

## Keeping your distance

The minimum safety clearances over structures, roads and driveways are shown in the following drawings.

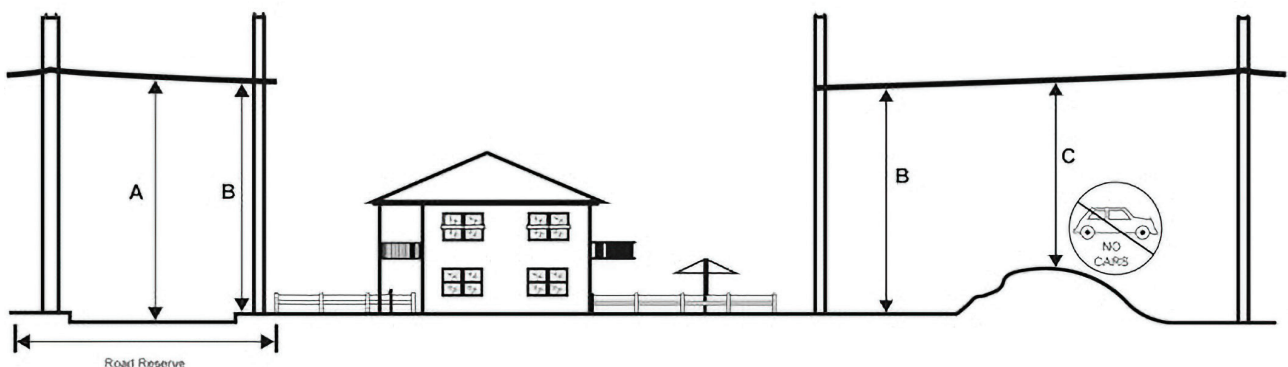
**Remember** – these are the minimum safe distances. In some cases, the distance may increase to ensure public safety.

## Minimum Safety Clearances for “Distribution” overhead powerlines

**Table 2 - Minimum clearances from ground**

Note: The required Ausgrid clearances are indicated in the table below with a cross reference to AS7000 clearances for your information only.

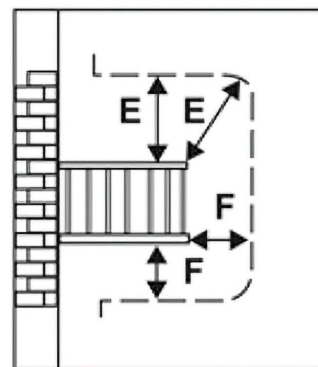
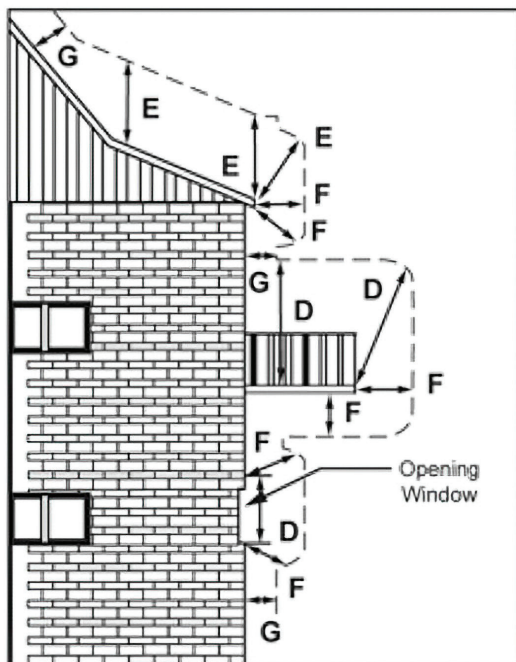
| DIMENSION | LOCATION                                                                            | Minimum Clearances in any direction between Conductors |                                  |                                     |              |              |              |
|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------|----------------------------------|-------------------------------------|--------------|--------------|--------------|
|           |                                                                                     | Nominal System Voltage                                 |                                  |                                     |              |              |              |
|           |                                                                                     | LV insulated or bare                                   | 11kV, 22kV, and 12.7kV SWER bare | 11kV, 22kV, and 12.7kV SWER covered | 33kV         | 66kV         | 132kV        |
|           |                                                                                     | m                                                      | m                                | m                                   | m            | m            | m            |
| A         | Over the carriageway of roads                                                       | 6.0<br>(5.5)                                           | 7.5<br>(6.7)                     | 6.0                                 | 7.5<br>(6.7) | 7.5<br>(6.7) | 7.5<br>(6.7) |
| B         | Over land other than the carriageway of roads                                       | 6.0<br>(5.5)                                           | 6.0<br>(5.5)                     | 6.0                                 | 6.0<br>(5.5) | 7.0<br>(6.7) | 7.5<br>(6.7) |
| C         | Over land which, due to its steepness or swampiness, is not traversable by vehicles | 5.0<br>(4.5)                                           | 5.0<br>(4.5)                     | 5.0                                 | 5.0<br>(4.5) | 6.0<br>(5.5) | 6.0<br>(5.5) |



# Overhead Distribution Cables

**Table 3 - Minimum clearances from structures, buildings and easement boundaries.**

| DIMENSION | LOCATION                                                                                                                                                                                             | LOW VOLTAGE |              |             | 11kV – 33kV                   |                                  |                 | 66kV to 132kV |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|-------------|-------------------------------|----------------------------------|-----------------|---------------|
|           |                                                                                                                                                                                                      | Insulated   | Bare neutral | Bare active | Insulated with earthed screen | Insulated without earthed screen | Bare or covered | Bare          |
|           |                                                                                                                                                                                                      | m           | m            | m           | m                             | m                                | m               | m             |
| D         | Vertically above those parts of any structure normally accessible to persons                                                                                                                         | 2.7         | 2.7          | 3.7         | 2.7                           | 3.7                              | 4.5             | 5.0           |
| E         | Vertically above those parts of any structure not normally accessible to persons but on which a person can stand                                                                                     | 2.0         | 2.7          | 2.7         | 2.7                           | 2.7                              | 3.7             | 4.5           |
| F         | In any direction (other than vertically above) from those parts of any structure normally accessible to persons, or from any part not normally accessible to persons but on which a person can stand | 1.0         | 0.9          | 1.5         | 1.5                           | 1.5                              | 2.1             | 3.0           |
| G         | In any direction from those parts of any structure not normally accessible to persons                                                                                                                | 0.1         | 0.3          | 0.6         | 0.1                           | 0.6                              | 1.5             | 2.5           |

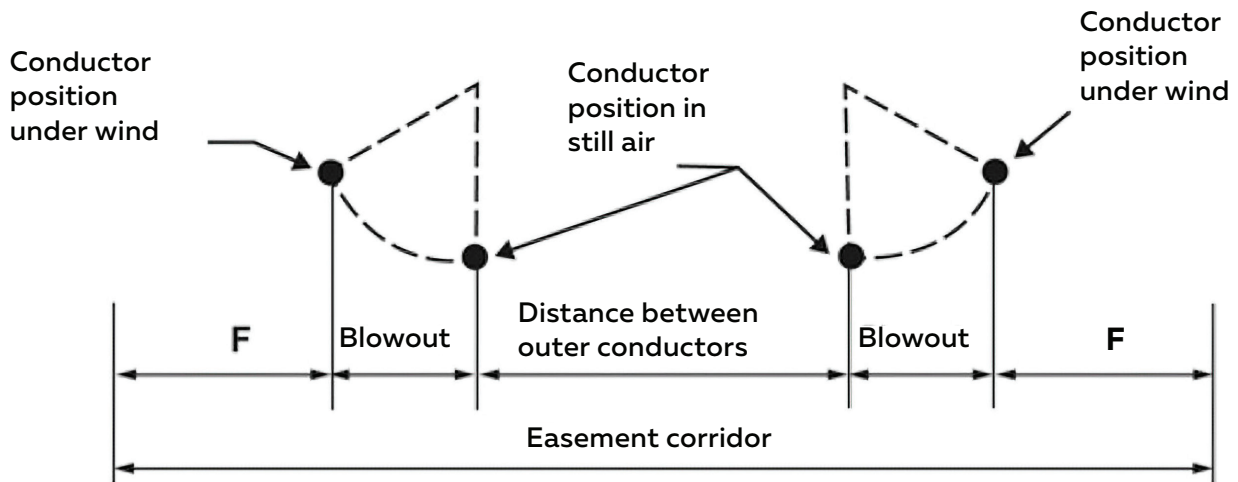


These dimensions apply if the height of the railing (or similar) plus distance E is greater than distance D



# Overhead Distribution Cables

## Horizontal clearance between conductors



## HORIZONTAL CLEARANCE BETWEEN CONDUCTORS AND EASEMENT BOUNDARIES

**Note** – Overhead powerline easements may be in place on private property. Please check the 'Title' of the land, or visit the Land Registry Office to complete a Title Search [Home - NSW Land Registry Services \(nswlrs.com.au\)](http://nswlrs.com.au).

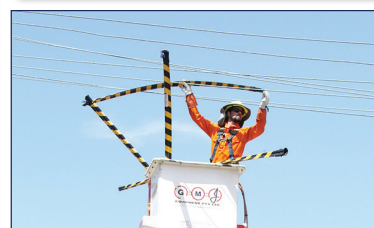
For overhead powerlines located within a council or RMS roadway footpath, easements are not required.

# Working Near Overhead Powerlines

## Minimum Safety Clearances when working near overhead powerlines (not service mains), and how to submit a 'Safety Clearance Enquiry'

If you are planning to work near any overhead powerline(s) please visit the Ausgrid website for more information, and for support on how to [submit a Safety Clearance Enquiry](#).

Additional information can be found in the [SafeWork – Work Near Overhead Power Lines Code of Practice](#).



### [Approach distances for work performed by 'Ordinary Persons'](#)

\* An 'Ordinary Person' is someone without formal close approach training and authorisation.

**Table 4 – Approach distances for work performed by 'Ordinary Persons'**

| Nominal phase to phase a.c. voltage (volts) | Approach distance (m) |
|---------------------------------------------|-----------------------|
| Up to and including 132,000                 | 3.0                   |
| Above 132,000 up to and including 330,000   | 6.0                   |
| Above 330,000                               | 8.0                   |
| Nominal pole to earth d.c. voltage (volts)  | Approach distance (m) |
| Up to and including +/- 1500 Volts          | 3.0                   |

**Note:** Special approach distances apply for scaffolding work (Chapter 6) and/or work near low voltage overhead service lines (Chapter 8) – refer [SafeWork – Work Near Overhead Power Lines Code of Practice](#).

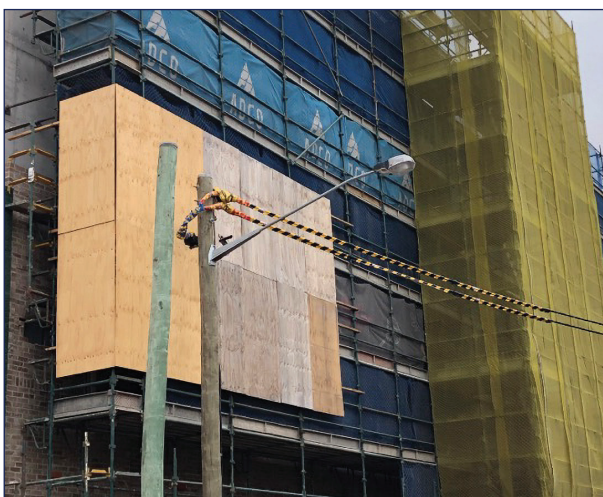
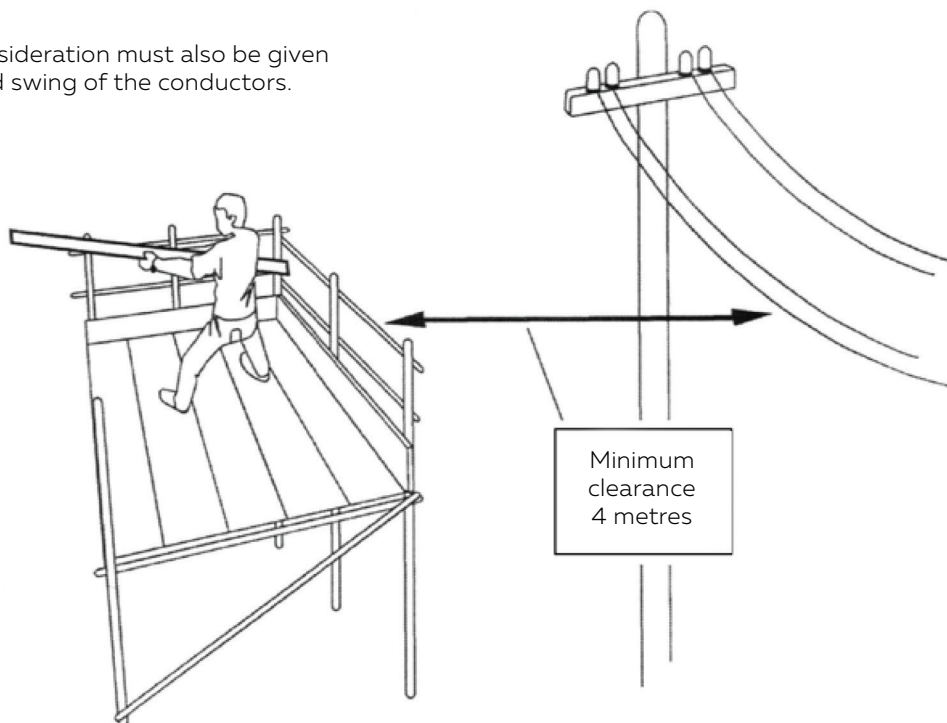
# Working Near Overhead Powerlines

## Minimum Safety Clearances when erecting or dismantling scaffolding near overhead powerlines

If you are planning to work near any overhead powerline(s) please visit the Ausgrid website for more information, and for support on how to [submit a Safety Clearance Enquiry](#) – if required.

Additional information can be found in the [SafeWork – Work Near Overhead Power Lines Code of Practice](#).

Note: Consideration must also be given to sag and swing of the conductors.





# Working Near Overhead Powerlines

## Minimum Safety Clearances when operating cranes and/or mobile plant (machinery) near overhead powerlines

If you are planning to work near any overhead powerline(s) please visit the Ausgrid website for more information, and for support on how to submit a Safety Clearance Enquiry – if required.

<https://www.ausgrid.com.au/Your-safety/Working-Safe/Clearance-enquiries>

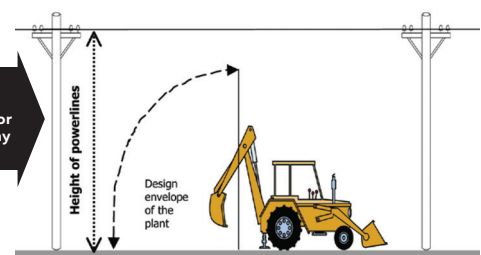
**Under no circumstances will Ausgrid permit craning loads over live High Voltage (HV) mains.  
You MUST contact Ausgrid to review all 'craning over' activities.**

Additional information can be found in the SafeWork – Work Near Overhead Power Lines Code of Practice.

[https://www.safework.nsw.gov.au/\\_data/assets/pdf\\_file/0020/52832/Work-near-overheadpower-lines-code-of-practice.pdf](https://www.safework.nsw.gov.au/_data/assets/pdf_file/0020/52832/Work-near-overheadpower-lines-code-of-practice.pdf)



The distance that must be assessed prior to start of any work



# Working Near Overhead Powerlines

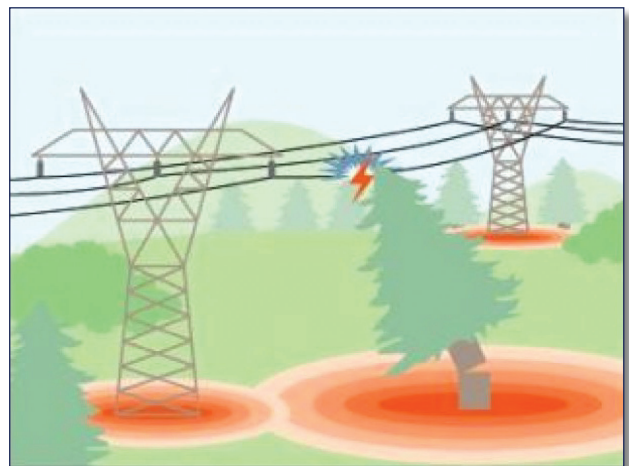
## Minimum Safety Clearances when trimming trees or clearing vegetation near overhead powerlines

If you are planning to work near any overhead powerline(s) please visit the Ausgrid website for more information, and for support on how to submit a Safety Clearance Enquiry – **if required**.

<https://www.ausgrid.com.au/Your-safety/Working-Safe/Clearance-enquiries>

Additional information can be found in the SafeWork – Work Near Overhead Power Lines Code of Practice.

[https://www.safework.nsw.gov.au/\\_data/assets/pdf\\_file/0020/52832/Work-near-overhead-power-lines-code-of-practice.pdf](https://www.safework.nsw.gov.au/_data/assets/pdf_file/0020/52832/Work-near-overhead-power-lines-code-of-practice.pdf)



If you would like to know more about suitable species of trees to plant in proximity to Ausgrid powerlines please visit the Ausgrid website.

<https://www.ausgrid.com.au/-/media/Documents/In-your-community/Councils/Suitable-Planting-Species.pdf>

# Substations

## Ausgrid Access/Clearance Requirements

Kiosk sites must have unimpeded access/egress for Ausgrid personnel and vehicles, directly from a public street, for 24 hours per day, 7 days per week.

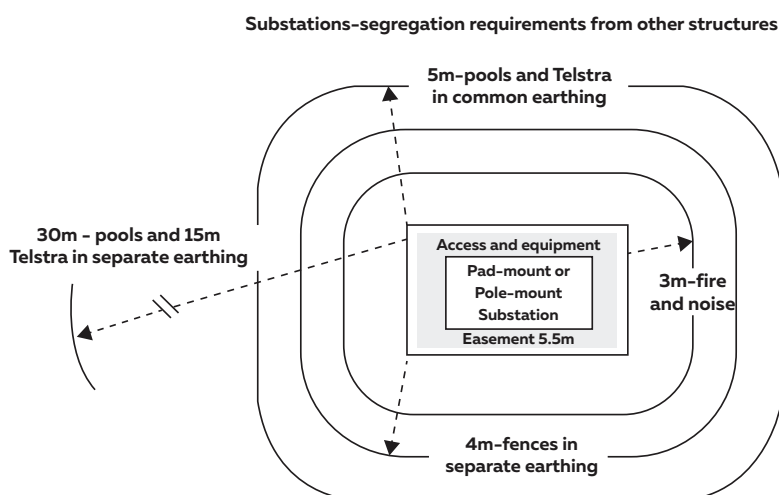
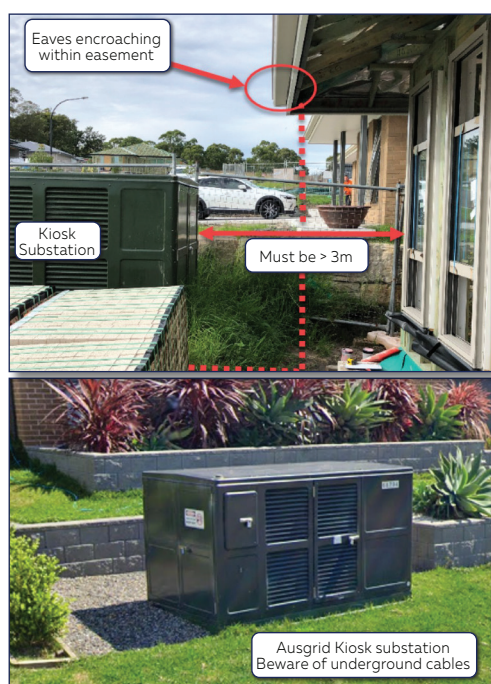
A heavy truck with a vehicle-mounted crane is needed to install or remove the kiosk and equipment. Access/egress routes, where required, must be suitable under all weather conditions and constructed to withstand the required loading. The access route should be a minimum of 4 metres wide, have a minimum of 4 metres headroom and be continuous from the property boundary to the kiosk site.

For kiosk sites other than footpath, reserve or URD sites, the site owner/customer is responsible for providing and maintaining access routes and surface finishes, to the satisfaction of Ausgrid, as specified in the associated easement document.

Access from the street to the kiosk site must not be fenced or enclosed, unless approval is given in writing by Ausgrid and the conditions listed in the approval are complied with on an ongoing basis by the site owner/customer.

**Note:** - Ausgrid's suite of Network Standards relate to all of our work types. Please refer to Network Standard NS141 (Site selection and site preparation standards for kiosk type substations) on our website for more information on substation/kiosk clearance requirements.

<https://www.ausgrid.com.au/-/media/Documents/Technical-Documentation/NS/NS141>





# Safety Advice For Underground Cables & Conduits

## Safety Advice For Underground Cables & Conduits

Ausgrid has a large network of underground cables and for safety reasons, it is extremely important that you check for electrical cables and other utility assets (including telecommunications, gas, water and sewerage) before you start to dig or excavate the site.

**WHEN EXCAVATING ALWAYS CALL 1100 OR EMAIL DIAL BEFORE YOU DIG.**



Dial Before You Dig is a FREE national referral service supported by Ausgrid and other major service providers that supplies plans of where electricity, water, gas and telecommunications cables and assets are located, so you know whether it is safe to dig. Call DBYD on 1100 (Free call).

**Note:** - Ausgrid's suite of Network Standards relate to all of our work types. Please refer to Network Standard NS156 (Working Near Or Around Underground Cables) on our website for more information on applicable safety requirements.

<https://www.ausgrid.com.au/-/media/Documents/Technical-Documentation/NS/NS156>



# Streetlights

Street lighting is a vital community asset that helps our community feel safer and more secure. Ausgrid maintains 250,000 streetlights within our network area on behalf of local councils across Sydney, the Central Coast and the Hunter.

Although streetlights are connected to the Ausgrid network the responsibility for new streetlight approvals or removals resides with the local council, or the NSW Roads & Maritime Services (RMS) depending on the category of road (or bridge etc.).

Ausgrid is responsible for connecting and maintaining street lights – **in our network area**.

If you would like to report a street light that is not working please visit our website and "Report a faulty streetlight" via our online mapping system.

<https://www.ausgrid.com.au/In-your-community/Our-services/Streetlights#!/map>

If you would like to make a complaint about a streetlight (e.g. obtrusive light etc.) or request a new streetlight to be installed, please contact your local council. The council will assess your request/complaint and refer the matter to Ausgrid for further investigation/action to determine if the complaint is justified.





# Asset Relocations

If you would like to apply to relocate an existing Ausgrid asset (i.e. a pole, pillar, substation and/or underground cable etc.) please visit the Ausgrid website and follow the steps to submit a "Network Relocation Request Form".

<https://www.ausgrid.com.au/Connections/special-connections/moving-poles-and-assets>





# Excavating (Digging) Near Ausgrid Poles or Assets

Are you proposing to excavate (dig) near an Ausgrid pole or other asset?

In some situations the local site conditions and Ausgrid pole construction types may necessitate additional pole support measures be put in place, (by Ausgrid) to ensure the structural integrity of the pole during the period of excavation.

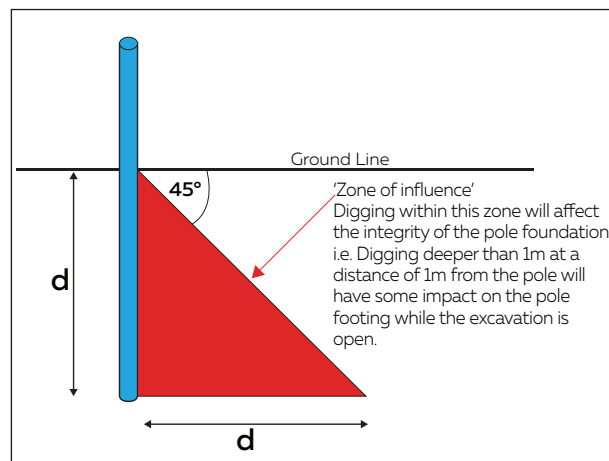
**Only Ausgrid can implement additional pole support measures (pole holding etc.)  
You MUST contact Ausgrid for all excavation work that could impact the structural integrity of a pole or other Ausgrid asset**

The 'Zone of Influence' drawing below provides an indication on potential excavation impacts on Ausgrid poles.

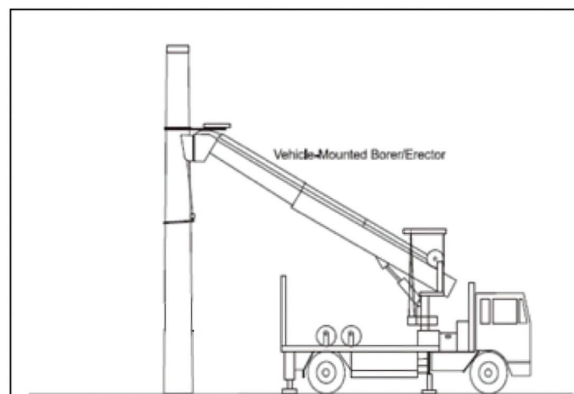
**Note** that this is a guide only.

If you are excavating near an Ausgrid pole please refer to the Ausgrid website for more information, and to make a Safety Clearance Enquiry.

<https://www.ausgrid.com.au/Your-safety/Working-Safe/Clearance-enquiries>



Excavation causing pole collapse



One method of supporting a pole to excavate within the do not disturb zone

# Examples of Assets and Equipment

Underground Pillar



Pole Transformer (PT)



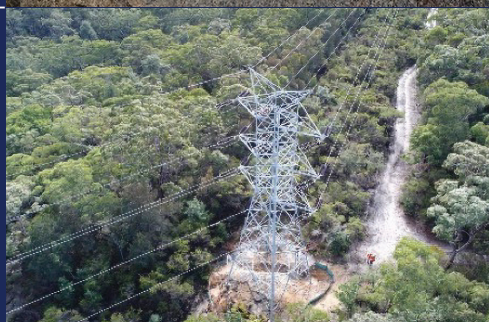
Kiosk Substation



Distribution and Transmission Substations



Transmission Tower



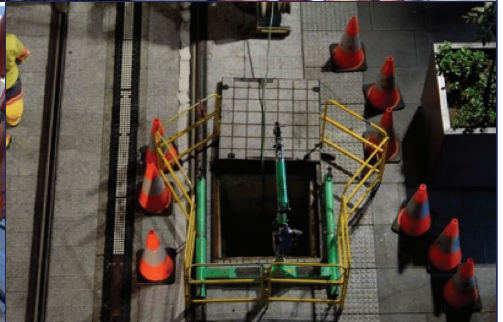


# Examples of Assets and Equipment

Cable Trench



Cable Pit



Torapoli pipe / Tiger tail  
/ Cover or Pipe



Point of Attachment  
(PoA)

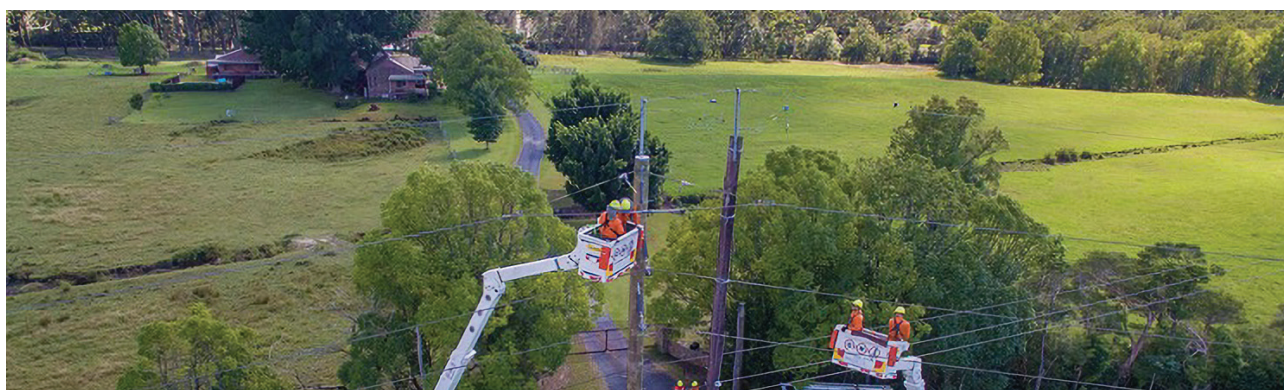
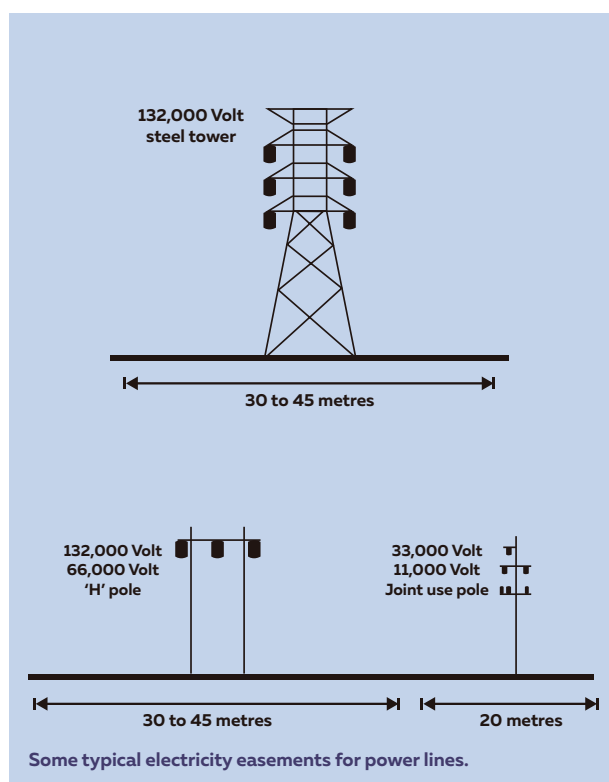




# Easements

An electricity easement provides 'right of way' for Ausgrid to access, maintain and repair powerlines and substations on private property. While ownership of the land remains with the property, certain restrictions may apply to how the land can be used. Easements also exist for telephone lines, water and sewage mains and natural gas supply lines.

Key information is available in both the Ausgrid [Easement Information Brochure](#) and on the [Ausgrid website](#).



# Contact Us

## Power outage, hazard or emergency

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**13 13 88**

24 hours a day, 7 days a week

## General Enquiries

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**13 13 65**

Mon to Fri / 09:00 to 16:30

If you have any questions, comments or need further information, we'd be happy to hear from you.

## Correspondence

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The Ausgrid postal address for correspondence is:-  
GPO Box 4009, Sydney, NSW 2001

## Online

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For online contact please refer to the Ausgrid website '[Contact Us](#)' page for:-

- Checking or reporting power outages
- Requesting repairs
- Making a claim
- Enquiries and complaints
- Facebook and twitter links
- Frequently Asked Questions

