



TransGrid

TransGrid's Telecommunications Network





TransGrid's telecommunications infrastructure is essential to the provision of a reliable high voltage electricity network across New South Wales (NSW).

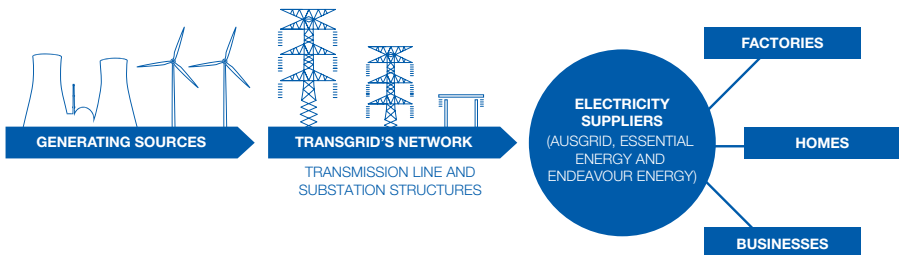
WHO ARE WE?

TransGrid is the owner, operator and manager of one of the largest high voltage transmission networks in Australia, connecting generators, distributors and major end users in NSW.

Our network is made up of more than 12,600 kilometres of transmission line and underground cable, and more than 90 substations and switch yards.

We are committed to continuing our world leading practices to provide a safe, reliable, efficient and environmentally responsible high voltage electricity transmission service to our customers and the community.

WHERE DO WE FIT IN THE ELECTRICITY DELIVERY PROCESS?




OUR TELECOMMUNICATIONS NETWORK

TransGrid's telecommunications infrastructure is designed to ensure the safe operation and remote monitoring of the NSW high voltage electricity network.

Approximately 121 telecommunications structures and more than 2,000 kilometres of optic fibre elements make up our robust network, allowing information to be transferred from substations and transmission lines at the speed of light – safely and reliably.

Our radio sites are also available for use by third party organisations, including government departments, community groups, emergency service groups, private companies and licensed telecommunication carriers.



SELECTING SITES AND DESIGNS OF TELECOMMUNICATIONS SITES

TransGrid follows guidelines from the Australian Radiation Protection and Nuclear Safety Agency (ARPANSA) when determining the location of telecommunication sites.

Telecommunication sites must be located in an area where line of sight can be established between any two structures – designed to avoid interference in the transmission of point-to-point microwave signals. For this reason the height of telecommunication structures is a vital consideration in the design of these sites, as this allows a greater signal range to be received. As a result, antennas and poles are often placed on hills, buildings or tall structures.

THE NEED FOR TELECOMMUNICATION NETWORK UPGRADES

Upgrades to our telecommunications network are necessary to maintain our high voltage electricity system and ensure the safe delivery of power to businesses and the community now and well into the future.

WHAT AN UPGRADE COULD INVOLVE

The extent of network upgrades is based on individual site factors, including the current and forecast electricity demand, and whether a telecommunication site currently exists.

Upgrades may involve:

- amendments to existing structures, such as the installation of antennas to communication poles or substation extensions; or
- the construction of new infrastructure, such as communication poles or steel lattice towers.

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WANT MORE INFORMATION?

Contact one of TransGrid's Community Liaison Officers on our toll-free hotline, 1800 222 537, or visit www.transgrid.com.au/telecommunications

If you would like to make an enquiry or submit an application to use one of our telecommunications towers or high voltage towers, please visit www.transgrid.com.au/telecommunications and complete the following forms:

- High voltage tower application form
- Radio site application form
- Site amendment form

Completed forms can be forwarded to:

Email: transgrid.facilities@transgrid.com.au

Fax: 02 9284 3456

Post: PO Box A1000, Sydney South NSW 1235