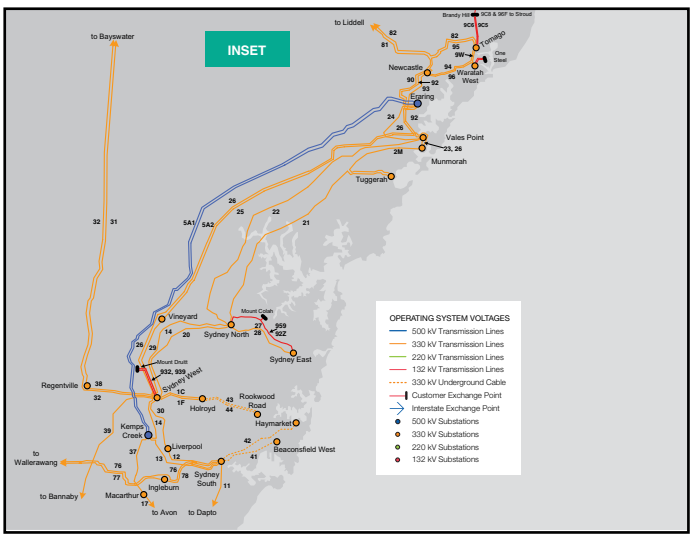
Fact Sheet

Southern NSW

TransGrid owns and operates the high voltage network connecting generators, distributors and major end users in NSW and the ACT.

Our network comprises 99 substations and nearly 13,000 kilometres of transmission lines and cables. Interconnected to Queensland and Victoria, it provides a strong electricity system that makes energy trading possible between Australia's three largest states along the east coast and supports the competitive wholesale National Electricity Market (NEM).



The Southern Region maintains the high voltage substations, switching stations and transmission lines in the southern part of New South Wales. It is a diverse area extending from Broken Hill to the Snowy Mountains, down to the Victorian border and north to Marulan.

There is approximately 4,500 kilometres of transmission line, some which traverse the largest National Park in New South Wales. Our staff are located at Wagga Wagga and Yass depots.

Cooma Substation Rebuild

The Cooma substation was established in 1954. The substation and its equipment were approaching the end of their serviceable lives and in need of replacement. Construction of the new substation began in July 2014 and has been built across the road from the existing substation on the Monaro Highway. Construction is expected to be completed in 2016.

Yass to Burrinjuck Pole Replacement

The existing Yass to Burrinjuck transmission line was first commissioned in 1940 and stretches approximately 38 kilometres between TransGrid's Yass and Burrinjuck substations. As the oldest TransGrid owned transmission line in the state, it has provided 75 years of service. A condition assessment of the line identified that the existing wooden poles would need to be replaced. It is proposed that the twin wooden pole structures would be replaced with new single concrete pole structures.

Albury to Hume Communication Cable Project

To support TransGrid's electricity network across New South Wales we operate an independent telecommunications network made up of microwave radio systems and optical fibre that cover over 2,000 kilometres. This network allows TransGrid to communicate and transfer information between its various assets. The Albury to Hume Communication Cable Project involves installing underground fibre optic cables between TransGrid's Albury and Hume substations. This work will be mainly limited to road reserves.

Canberra Communication Cable Upgrade

To extend TransGrid's telecommunication network in the Australian Capital Territory, we are installing 29 kilometres of underground fibre optic cables between our Canberra substation and central Canberra. This work will mainly be limited to road reserves.

Dynamic Line Rating Southern

The dynamic line rating project southern involves the installation of weather stations at strategically located positions along some of our existing transmission lines and substations. The weather stations will measure ambient temperature, wind speed and direction and solar radiation. The weather stations will provide real time data to allow for the more efficient operation of existing transmission lines under localised weather conditions.

Southern Lines Remediation and OPGW Upgrade

TransGrid is undergoing a range of projects across our existing transmission network in southern NSW that will improve the efficiency of their operations and delivery of electricity to consumers. The low spans transmission line project involves raising the height of some spans of existing transmission lines that have been identified as having low clearance to the ground or other objects.

The optical fibre ground wire (OPGW) project involves the replacement of ageing ground wires located on the top of existing transmission lines with new optic fibre cables.

ACT Second Electrical Supply Project

The project is the second and final stage of the ACT Second Electrical Supply upgrade. Stage one of the project was completed in February 2013 with the build of the 330/132 kV substation at Williamsdale. This project is a joint undertaking with the ACT Government and involves the construction of a switching station near Stockdill Drive. There is also the need to build a section of new 330 kV transmission line linking the new switching station to TransGrid's existing Canberra substation and Williamsdale substation. Construction of the switching station is anticipated for late 2019.

Albury Substation

TransGrid's Albury substation secondary systems replacement project is a major investment in the safe, reliable and efficient supply of electricity to the region. The work will include a range of small scale construction activities including the removal of old equipment, digging trenches, laying foundations and installing new equipment including new monitoring systems and buildings. Work at the substation began in August 2015 with works anticipated to be completed late 2016.

Burrinjuck Substation

Burrinjuck substation was commissioned in 1944. Much of the original equipment is approaching the end of it serviceable life and is in need of replacement. TransGrid is current exploring options to rebuild or replace the substation.

Canberra Substation

Canberra substation was established in 1967 and components of the substation are reaching the end of their service life and need replacement. The Substation forms an integral part of the delivery of electricity to Canberra. It is anticipated that construction works will begin in 2016 and be completed by late 2019.

Wagga Wagga Substation

Wagga Wagga substation was commissioned in 1955 and supplies Essential Energy's network servicing both the Wagga township and surrounding regional area. A range of assets within the substation have been identified as approaching the end of their serviceable lives and are in need of replacement. Works are anticipated to be completed by December 2016.

For more information

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