



Wembley Downs Substation Upgrade

PROJECT UPDATE JUNE 2008

As part of its commitment to improve the quality and reliability of power and to cater for the future power needs in your area, Western Power is upgrading the Wembley Downs zone substation on Empire Avenue, Wembley Downs.

Project overview

The proposed upgrade to the Wembley Downs zone substation on Empire Avenue will improve the quality and reliability of power and meet the growing need for power in the Wembley Downs area.

The three existing 66kV / 6.6kV transformers will be replaced with two 66kV / 11kV transformers and a new building will be constructed to house some of the substation equipment. The new equipment will be assembled, constructed and installed within Western Power's existing property.

To maintain public safety and the security of the substation a three-meter high chain mesh security fence has been constructed on the northern boundary of the property. A razor wire topping will be added shortly after for additional security and public safety.

Project timeline

June 2008

Installation of security wall completed

June - July 2008

Landscaping and revegetation works

August 2008

Construction of switchroom commences

End August 2008

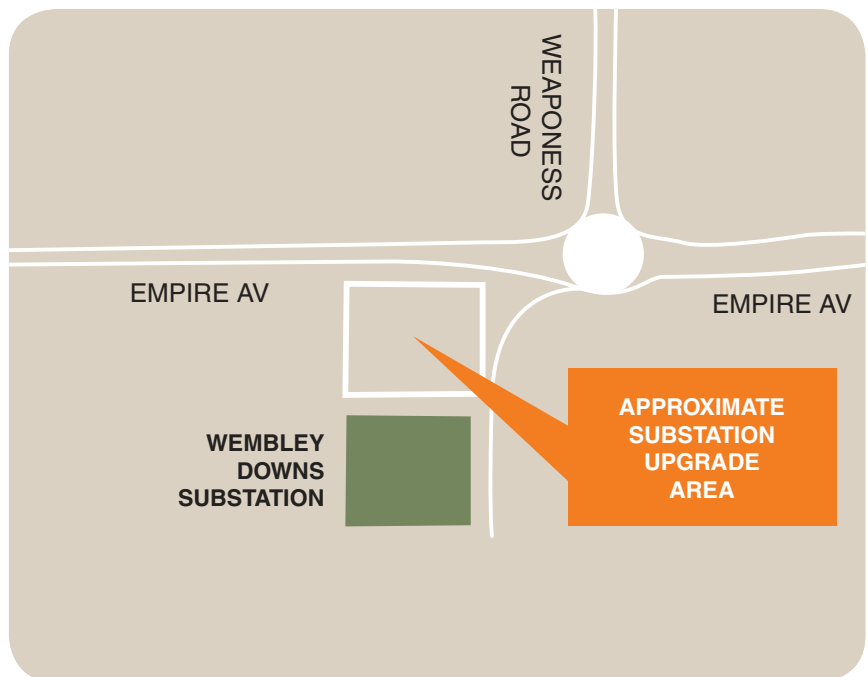
Installation of conductors and other electrical infrastructure scheduled to commence

End Dec 2008

Transformer is brought into service and stage one is completed

Jan 2009 - Dec 2009

Undertaking of stage two



Questions and Answers

What is a zone substation?

A zone substation, like the one at Wembley Downs, 'steps down' the high voltage power of transmission lines to the lower voltage suitable for distribution to residences and businesses.

Why does the substation need upgrading?

An increased demand for power in the area in recent years has resulted in load increases at the Wembley Downs substation at approximately 5% a year. Population growth including infill housing developments in the area, combined with the increased use of domestic appliances such as, air conditioners, plasma televisions and pool pumps, are placing increased pressure on the power network and its operating equipment.

When will construction take place?

Construction will take place primarily on weekdays and on occasion possibly during a Saturday. Some out of hours work may be undertaken to manage safety requirements. Some noise and dust may be created during the construction phase. The planned construction work should not impact on residential power supplies.

Screening of the substation

Western Power, in consultation with the Town of Cambridge, has developed a landscaping plan for the north and north-western perimeter of the substation site. Landscaping and revegetation screening in this area will use plant species that are common to the surrounding area and streetscape. This work will be carried out by a qualified landscaping and revegetation contractor and is expected to take a period of 2-4 weeks to complete. Completion is scheduled for the end of August 2008.

Informing the Community

Western Power is committed to providing the community with information regarding the project's progress. Information will be provided to the community through the distribution of letters and brochures as well as on our web page at www.westernpower.com.au

Contact Us

For more information on this project please contact Western Power's Project Officer Jason Haydock on (08) 9326 6074 or email jason.haydock@westernpower.com.au

For further information on any other Western Power projects, please visit www.westernpower.com.au

Upgrade of substation equipment

Preliminary civil works have commenced on site and the works to upgrade the substation will be completed in two stages.

Stage 1

Stage 1 of these works will involve the construction of a new building to house electrical equipment and the installation of a 66kV / 11kV transformer along side the three existing transformers. This work is expected to commence in August 2008 and continue until the end of December 2008.

A noise barrier will be installed around the new transformer to ensure noise emissions from the substation comply with State Government Regulations. The new transformer is scheduled to be in commission by the end of December 2008.

Stage 2

Stage 2 of these works will commence in January 2009 and will involve the removal of one of the existing 66kV / 6.6kV transformers. In order to remove the transformer, a partial section of the existing sound wall must be removed. The remaining sound wall around the 66kV / 6.6kV transformers will stay in place whilst they are in operation.

A second 66kV / 11kV transformer will then be installed in its place, and the two remaining redundant transformers will be removed. A new sound wall will be constructed around the new 66kV / 11kV transformer prior the transformer being utilised.

This configuration will mean two 66kV / 11kV transformers are replacing three old 66kV / 6.6kV transformers.