



# Wangara zone substation

PROJECT UPDATE #1 FEB 2008

***As part of our commitment to improve the quality and reliability of power in Perth's northern suburbs, Western Power plans to establish a new zone substation in Wangara.***

## The project

The new Wangara zone substation is required to cater for current and future growth in Perth's rapidly expanding northern suburbs and will provide a more reliable power supply for existing residents.

Western Power has purchased a property at 80 Windsor Road, located in the Wangara industrial area, for the establishment of the zone substation. This site was selected after considerable investigation and was chosen for its central location to the customers that require the power.

The substation is to be completed by late 2010, when forecasts indicate that the existing Lansdale and Mullaloo substations that currently provide electricity to the area would have reached their designed capacity.

Two 132,000 volt (132 kV) transmission lines are required to connect the substation into the existing Lansdale–Mullaloo line on Wanneroo Road. It is likely that one of these lines will be constructed along Lancaster Road and the other along Windsor Road. At this time, the final route for the lines has not been determined.

## Project timeline\*

### April 2008

*Vegetation clearing on the site*

### November 2009

*Construction commences*

### November 2010

*Substation is operational*

### November 2010

*Landscaping of the substation commences*

*\*subject to change*



Wangara Substation



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## What is a zone substation and what will it look like?

Zone substations provide a 'step-down' point for high voltage power carried by transmission lines from power generation stations. It allows the power to be converted to a lower voltage for use in homes and businesses.

The substation will contain Western Power's standard equipment, including switchrooms, transformers, a relay room and other associated electrical equipment. The substation will be fenced to deter unauthorised access.

As part of our commitment to minimising the visual impact of our infrastructure, Western Power will engage a landscape architect to assist with screening the substation, using native plantings. Landscaping around the site will commence once construction has finished to ensure that planting is not disturbed during construction.

## Clearing of vegetation and buildings on-site

Clearing of vegetation and buildings on the Western Power owned site will be carried out in February 2008. Where possible, existing vegetation on the site will be left as is.

## Electromagnetic fields (EMF)

Electromagnetic fields (EMFs) occur wherever electricity is used. They are a natural by-product of electricity and occur around electrical equipment, wires and electrical appliances such as televisions, fridges and washing machines. They rapidly dissipate as you move away from the source.

All of Western Power's infrastructure is designed, constructed and operated to comply with the guidelines for human exposure to power, as recommended by the National Health and Medical Research Council of Australia. Western Power also adheres to guidelines set by the World Health Organisation.

## Further information

For more information on this project please contact Western Power's Project Officer, Ben Schneider on 9326 6378 or email [ben.schneider@westernpower.com.au](mailto:ben.schneider@westernpower.com.au)

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