



# Joondanna zone substation

INFORMATION SHEET JUNE 2008

*In response to rapid redevelopment of the Osborne Park industrial area, Western Power has been planning the construction of a new 132 kV zone substation on the corner of Albert Street and Roberts Road in Osborne Park. This new substation will enable Western Power to continue providing safe, reliable and efficient power supply to Osborne Park, Tuart Hill, Joondanna and surrounding areas.*

## Project timeline\*

### June 2009

*Stage 1 - Site works commence*

### Early 2010

*Stage 2 - Building & connecting the substation to the network complete*

### Mid 2010

*Stage 3 - Visual Impact Management & Reinstatement works complete*

*\*subject to change*

## What does a zone substation do?

A substation receives high voltage electricity from high voltage power lines and converts it to a lower voltage for use by you, the customer. Plus, because zone substations need to be located centrally and locally to the areas that they supply electricity to, which you'll find them in many of Perth's suburbs.

## Construction of our new Joondanna zone substation is taking place in three stages:

### Stage One: Removal of existing unused site premises

In order to start works on the new substation site, the existing unused premises will first be removed - note that investigation of these unused premises identified the existence of asbestos materials.

To ensure the safe and thorough removal of asbestos materials on the site, Western Power has engaged the services of Parsons Brinckerhoff; industry experts with accreditation from the National Association of Testing Authorities (NATA), who will monitor the works to guarantee they are carried out in accordance with Western Australia's Work Safe regulations, and the National Occupational Health and Safety Commission Code of Practice and Australian Standards.

Asbestos removal and demolition works are due to start at the end of June 2009.

### Stage Two: Building & connecting the new Substation

Works for the new 132 kV substation will involve; construction of two new buildings for housing equipment, the installation of a new transformer, plus the installation of other electrical equipment for use by the new substation.

The new substation will then be connected to the existing transmission network via underground power cables buried along Gordon Road East, Albert Street and McDonald Street; with two new transition poles being installed to connect the new cables back up to the existing overhead transmission power lines. Further works in the area will include;

- upgrading some existing poles,
- installing new poles,
- adding stay-wires to secure some wooden poles, and
- relocating some of the existing over head distribution power lines to run underground.



### Stage Three: Visual impact management & reinstatement works

Once the underground cable has been installed, the redundant overhead transmission lines will be removed.

To ensure public safety and security of the substation, a 3.5m high concrete wall surrounding the perimeter of the site will be constructed, and finished with an anti-graffiti coating.

Reinstatement works of any flora, curbing or road impacts that may occur as a result of the Western Power works will also be finalised during this period.

### Traffic Disruptions

Western Power and its contractors will ensure all works are carried out in a safe manner, and will manage traffic flow in the area.



### Contact Us

Should you require any additional information, please visit the Joondanna Substation project page located at [www.westernpower.com.au](http://www.westernpower.com.au). Alternatively, you can contact Western Power's Project Officer Scott Varvell on (08) 9326 4517.