



# Joondalup Substation

PROJECT UPDATE #1 JULY 2008

**As part of its commitment to improve the quality and reliability of the power supply and to cater for the future power needs in your area, Western Power plans to construct a new zone substation in Joondalup.**

Western Power plans to establish a 132,000 volt (132 kV) zone substation on Lot 2 Shenton Avenue, Joondalup.

The substation is required to meet the increasing demand for power as a result of growth in the City of Joondalup and increased electricity use. The substation will improve the reliability of power supply and allow for future growth in the area.

The project will include the installation of a single transformer, a portable building to house the essential substation switching equipment and other electrical equipment for the substation.

The substation will be connected to the existing Mullaloo to Wanneroo 132 kV transmission line, which traverses the substation site.

**Project timeline\***

**Site works**  
September 2008

**Construction commences**  
January 2009

**Landscaping works**  
February 2010

**Project completion**  
April 2010

\*subject to change



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## Location of the substation

In order to ensure the efficiency of the substation it must be located within or in close proximity to the area that requires the power.

The substation site was purchased by Western Power in 1994, is triangular in shape and bordered by the Freeway on one side, railway reserve on another and an industrial area on the third side.

## Visual impact

Western Power is committed to working with the City of Joondalup to minimise the visual impact of the substation. At the recommendation of the City of Joondalup, the substation site will be lowered by two metres and a solid wall constructed on Shenton Avenue to partially screen the substation from view.

As part of this project, Western Power has developed a plan to landscape the perimeter of the substation with vegetation endemic to the area. Significant vegetation, such as grass trees, which would have otherwise been cleared, will also be transplanted to the perimeter of the substation, as part of the landscaping plan.

## Future Expansion

The Joondalup substation will be capable of supporting three transformers to cater for the increase in the demand for power.

Only one transformer will be installed at the initial stage of the substation development. The second transformer will be installed at the next stage by November 2011 and followed by the third by November 2015. The actual requirement for the second and third transformer may vary, depending on the rate of growth in the area.

## Traffic disruptions

There may be traffic delays in the area while equipment and materials are transported to the substation site. Western Power and its contractors will endeavour to minimise the disruption and safely manage traffic flow in the area.

### Contact Us

More information on this project please contact  
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