

## Wangara metropolitan reinforcements works

November 2009

In response to rapid redevelopment of Perth's northern suburbs, Western Power is currently planning the construction of a new 132 kV zone substation at 80 Windsor Road, Wangara. The new substation will ensure a reliable power supply within Wangara and the immediate surrounding areas.

Two 132,000 volt (132 kV) transmission lines will be established to connect the substation into the Western Power network via an existing transmission line located on Wanneroo Road. One line will be constructed along Lancaster Road and the other along Windsor Road.

### Substations, transmission lines and distribution lines explained

There are many interconnecting pieces of infrastructure that make up the Western Power electricity network - taking the power from generators, such as coal power stations, gas power stations and wind-farms, and delivering it through to your homes and businesses. Three of the most common types of infrastructure that Western Power uses to deliver power to your community are; substations, transmission lines and distribution lines.

Energy created by power generators is delivered to your community via high voltage transmission lines. Your local community substation then converts the power to a lower voltage, making it compatible to travel directly to your homes and businesses via low voltage distribution lines.

### Works location

The site, located in Wangara's industrial area, was selected after considerable investigation and was chosen for its central location to customers.



### Works timeline and traffic implications

Western Power advises that minor traffic disruptions will occur and that every effort will be taken to manage these disruptions so as to cause minimal disruption to you. For traffic disruptions that involve partial or full road closures, further information and warning of such disruptions will be forwarded as details are known.

The following table contains an overview of works, referencing work timelines and the existence of traffic implications.

### Works overview

Works description	Works timeline	Traffic management
Site demolition works	Complete	Not required
Substation civil construction works	November 2009	Minor traffic disruptions caused by trucks depositing equipment on site
Substation electrical construction works	Early 2010	Traffic will not be affected
Line works	Early 2010	Details of expect traffic disruptions to be communicated pre works
Completion	Early 2011	Traffic will not be affected

The works outlined in this notice are planned to begin during August 2009 and for further information, please contact the Western Power Project Officer for these works, Ben Schneider, via the contact details below:

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