

# The Edison Project

*Securing Melbourne's energy future*

## Making the complex process of moving energy simple

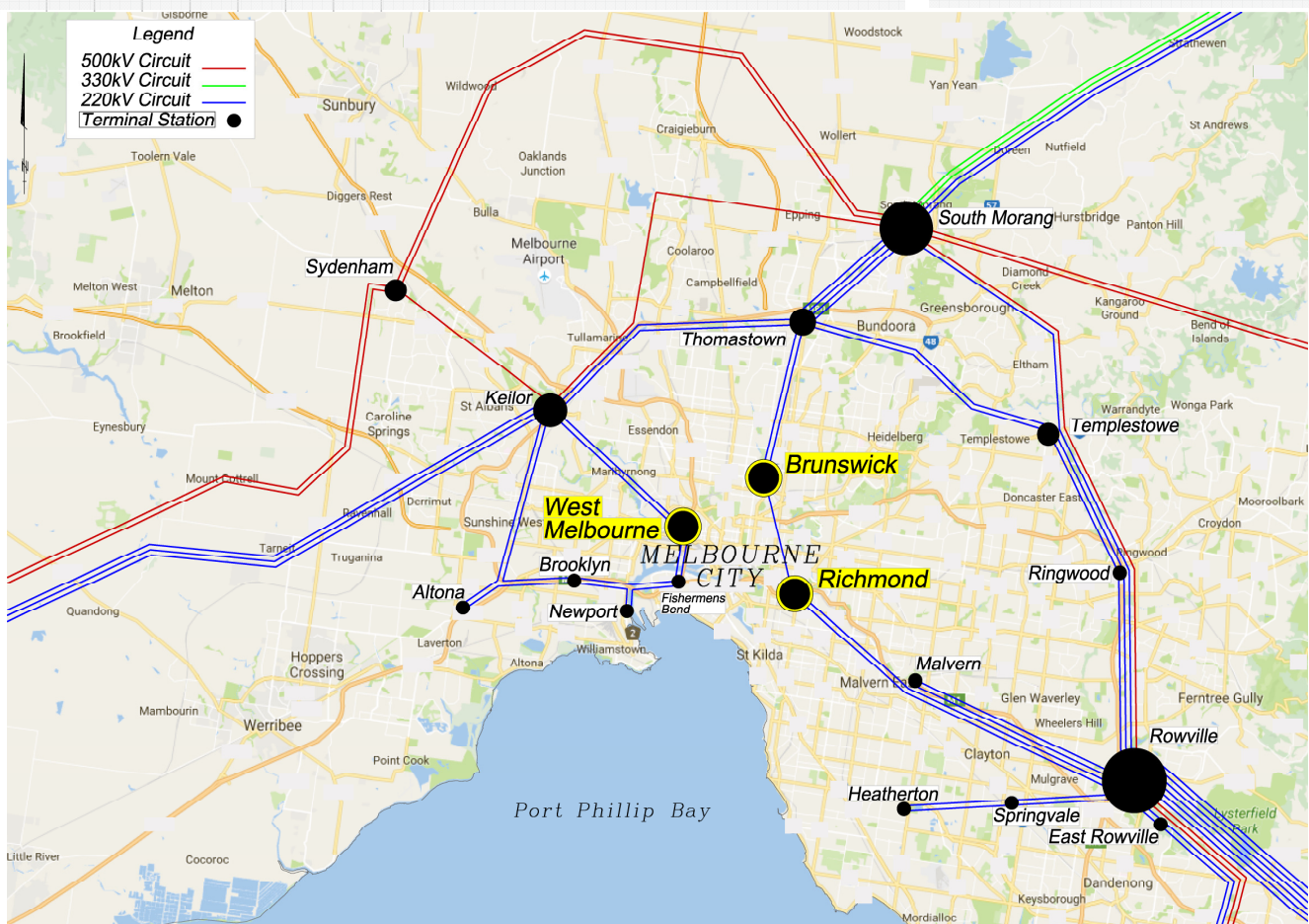
Consisting of redeveloping three electricity terminal stations in Melbourne's inner suburbs, the Edison Project is the largest electricity infrastructure project ever undertaken by AusNet Services.

When complete, the Edison Project will support the energy needs in Melbourne's CBD and inner suburbs as well as forecasted population growth over the next few decades.

The project involves the full replacement of ageing assets at the Richmond Terminal Station and West Melbourne Terminal Station and upgrading the capacity of the Brunswick Terminal Station.

The three redevelopments are being undertaken simultaneously and all three terminal stations remain fully operational throughout the works. These factors have made the Edison Project one of Melbourne's most critical and complex infrastructure projects due to the technical expertise needed and the number of delivery and community partners involved.

*AusNet Services is Victoria's largest energy delivery business, owning and operating \$11 billion of electricity and gas assets that connect into more than 1.3 million homes and businesses. AusNet Services owns 100 per cent of the state's electricity transmission network and is responsible for providing Victoria with a reliable supply of high voltage electricity.*





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## Focus on: Brunswick Terminal Station

### The Project

The Brunswick Terminal Station began operation in 1939 to service the local area. It is now undergoing a \$200M+ upgrade so that it can help secure the future energy needs of Melbourne's increasing population.

Previously, the station supplied 22 kV to the local inner northern distribution network which services about 25,000 customers. It was predominately an outdoor Air Insulated Switchgear (AIS) Terminal Station.

When the project is complete, the facility will be expanded to supply both 22 kV and 66 kV and will service an additional 65,000 customers using three new 225 MVA B transformers.

### World-class design

While the focus of the project is increasing the capacity of the site, work is also being done to decrease the site's footprint and improve the appearance to suit the surrounds.

The project involves replacing the existing AIS equipment with compact Gas Insulated Switchgear, that will be hidden inside architecturally-designed buildings. Extensive landscaping will further soften the industrial site's interface with its residential and parkland setting.

Similarly, the undergrounding of the 220 kV into the site has allowed for the removal of a tower line that used to dominate our neighbours' views (see photo). Also removed was a redundant three storey machine hall building, an old control room and Air Insulated Switchyards.

### Community Engagement and Environmental Management

Community engagement has been a key consideration in the design and construction process. This has been critical given the quiet residential setting with neighbours living just a few metres to the south and west.



Project Manager, Stephen Perera joins locals to witness the removal of the existing onsite transmission tower

Adding to the importance of careful stakeholder and environmental management is the parkland that is next to the site to the north and east. This much-valued public open space contains a flood-prone waterway, abundant birdlife and vegetation, cycle and pedestrian paths, and other popular recreation facilities.

The project team undertakes monthly doorknocking, regular newsletter drops and participates in a Community Reference Group that was set up for the Project.

### Commitment to safety

The Brunswick Terminal Station Upgrade has required careful coordination and management of various delivery partners while maintaining full station operations and supply.

AusNet Services' Senior Project Manager, Stephen Perera said that: "Safety has been paramount throughout the project with 1,400 days with no lost time injuries and no medical treatment injuries. Considering the complexities presented by having more than 170 personnel onsite during busy times, achieving this safety record required the utmost diligence and adherence to all safety measures implemented onsite".



Concept view of the finished Brunswick Terminal Station