

# SUNBURY LINE UPGRADE



## Albion substation

As part of the Sunbury Line Upgrade, we're building an electrical substation in Albion to provide essential power for bigger, more modern trains to run along the line — improving the capacity, reliability and frequency of services for passengers.

### More modern trains for the Sunbury Line

To take full advantage of the extra capacity on the rail network created by the Metro Tunnel, a range of enhancements are needed on the Sunbury Line to enable bigger, more modern trains to run.

The \$2.1 billion Sunbury Line Upgrade will see upgrades within the rail corridor from Sunbury to Footscray including:

- platform extensions at eight stations
- wheelchair boarding platforms at eight stations
- train stabling upgrades at Sunbury, Calder Park and Watergardens
- power upgrades between Sunbury and the Metro Tunnel entrance near South Kensington station.

These upgrades will ensure bigger, more modern trains can reliably run all the way from Cranbourne and Pakenham to Sunbury, linked through the CBD by the Metro Tunnel. The new trains will provide a more comfortable ride for passengers with improved seating, standing areas, cooling and heating designed for Melbourne's weather.

To find out more about the Sunbury Line Upgrade and register for future updates, visit [railprojects.vic.gov.au/sunburylineupgrade](https://railprojects.vic.gov.au/sunburylineupgrade)

# New electrical substation in Albion

Technical analysis of existing train power supply and future transport needs along the Sunbury Line identified the need for a new substation in Albion to provide the necessary power supply in the area.

The substation is being built on land set aside for rail purposes on Talmage Street, Albion.

Substations are an integral part of Melbourne's train network as trains need a constant source of power that can't be met by connecting to the standard street supply.

A substation is a mostly self-contained, unstaffed building which contains electrical equipment that converts the local power supply into the voltage needed to operate trains, signals and communication equipment across the train network.



## How was the location selected?

A power uplift is required in Albion to enable bigger, more modern trains to run on the Sunbury Line. The new substation will replace a small existing substation at the same location which is inadequate to future transport needs.

## Why can't the existing substation be used?

The existing substation would require a significant upgrade to provide the necessary power supply, which would also cease its regular operations. It must continue operating during construction to supply power to trains on the Sunbury Line.

## What will the new substation look like?

The building will be designed to take into consideration key characteristics of Albion, ensuring it fits in with the local area, now and in the future. A fence will be built around the perimeter of the building to secure the area and an access driveway built off Talmage Street.

## Will the substation be noisy?

The substation will be designed to comply with Environment Protection Authority (EPA) Noise Control Guidelines. Noise monitoring will be undertaken both pre and post substation completion to ensure noise level compliance.

Noise mitigation strategies will be fed into the design for the substation, such as installation of acoustic barrier treatments or thick concrete walls to reduce noise if required. Exact mitigation strategies will be confirmed during the design development.

## Will the substation impact my health?

The substation will access the same power that runs through street overhead or underground power lines. Therefore, the electromagnetic emissions from the substation will not be greater than the levels already produced in the area.

Electromagnetic emissions or electromagnetic fields (EMF) are a natural by-product of electricity. They occur around all electrical items, including those in our homes, workplaces and naturally through the Earth's magnetic field and thunderstorms.



Artist impression.

### What will construction involve?

Construction of the Albion substation will be undertaken in three phases. Preparation works will also take place in late 2020. This will involve minor utility relocations and construction of a temporary car park south of Talmage Street to offset the closure of other private parking areas.

- **Stage 1 – From January 2021**

Site establishment begins, including organising laydown areas and undertaking drainage works.

- **Stage 2 – From mid-2021**

Major construction of the substation building will begin on Talmage Street. Detailed construction information will be provided to local communities prior to the start of works. Substation construction works are expected to be completed by late 2021.

- **Stage 3 – Late 2021**

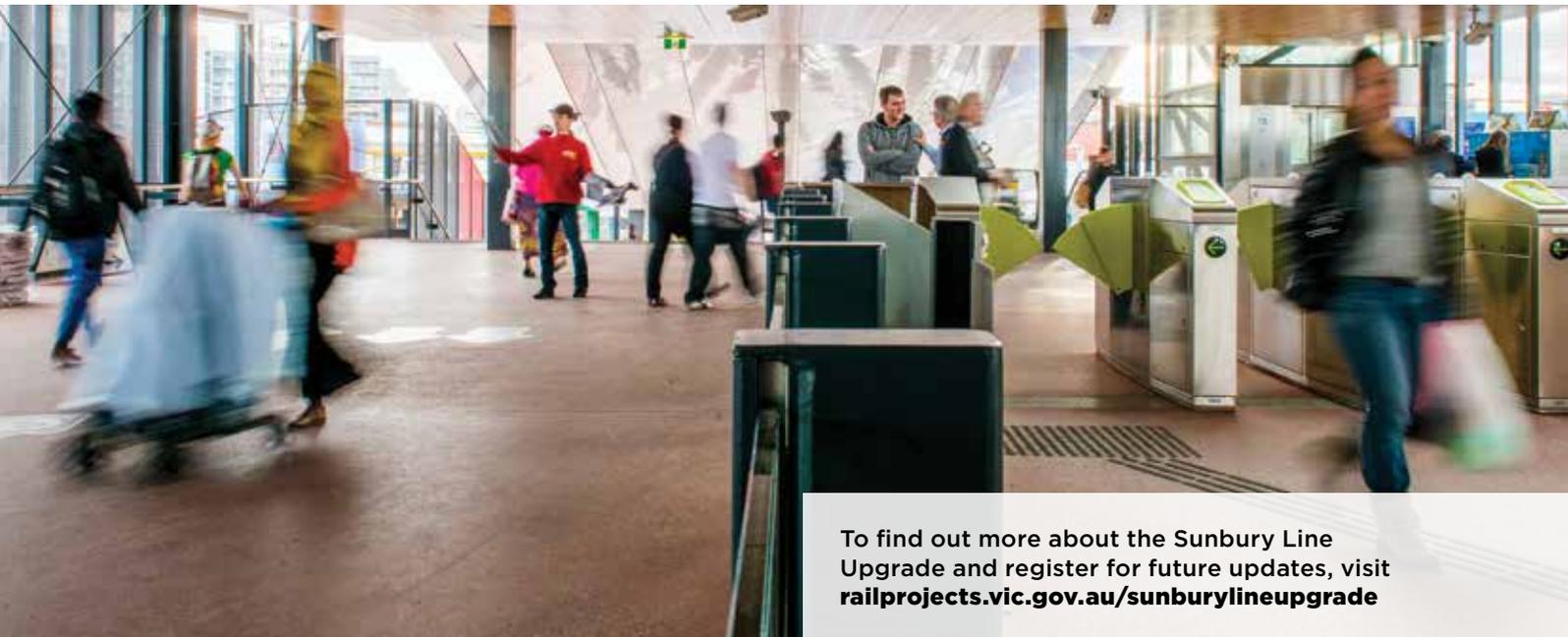
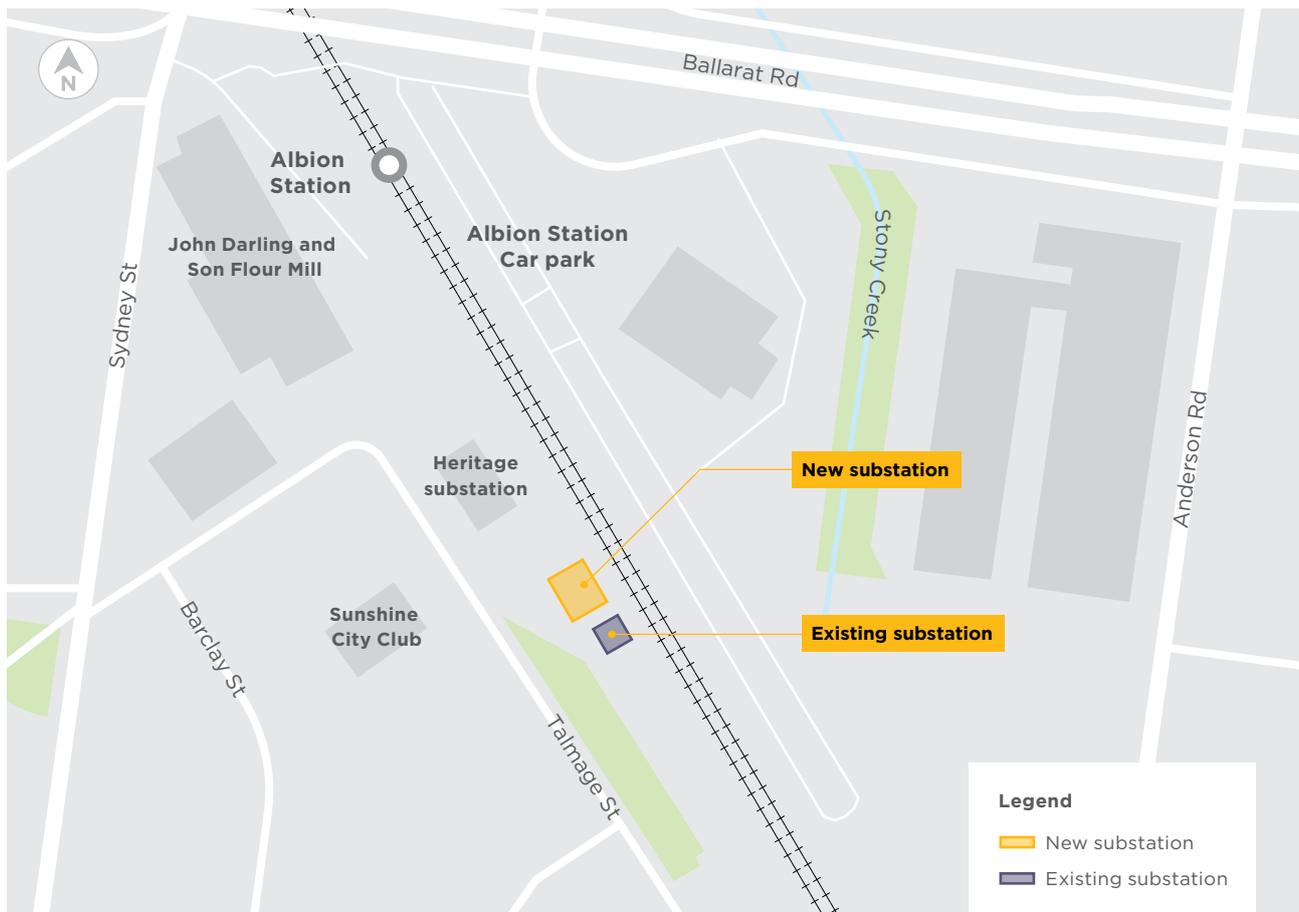
Once the substation building is complete, reinstatement works will take place including installation of high-quality fencing and landscaping.

## Project timeline



\*Expected completion date, subject to change once a construction program is finalised.

## Project map



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### More information

To find out more about the Sunbury Line Upgrade:

 [railprojects.vic.gov.au](http://railprojects.vic.gov.au)

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It should be noted that this information is current at the time of printing, however due to unforeseen circumstances, changes may occur. Please visit [railprojects.vic.gov.au](http://railprojects.vic.gov.au) for the latest updates.