

# rail electrification

## corridor safety



**stay safe around electric rail  
and respect the wires**

Electrification of Adelaide's rail network forms part of the State Government's unprecedented and ongoing investment into public transport. Together with the delivery of Australia's most modern and safest new train fleet, an electrified network will result in a vastly more environmentally friendly and efficient train service.

The electrification of the southern rail network involves installing masts and overhead wires along the Seaford and Tonsley lines, and the Belair line between Goodwood Station and Adelaide Railway Station.

### Electrification safety

As with all rail networks safety is paramount during both construction and operation of an electrified system.

It is important to remember that as a responsible and safety conscious user of the existing rail network you don't need to do anything different to safely use an electrified system.

There are however, unique features of an electrified rail system that you should be aware of.

Most noticeable will be screening (where physical barriers are placed between electrical infrastructure, such as overhead wires and fittings, and people) and access restrictions that ensure people using the trains or living nearby will not be at risk.

All electrification infrastructure, including overhead wires and their fittings should be considered live and carrying electrical current.

Overhead wires should be treated with the same respect and safety consciousness you do with suburban power poles.

Safety infrastructure has been installed and safety measures being taken include:

- Screening at road bridges and pedestrian overpasses to restrict people from being able to come into contact with the overhead wires.
- Upgraded fencing along the corridor to reduce trespass.
- Access to stations will be via overpasses and /or dedicated pedestrian paths only.
- Unauthorised access from residential properties into the corridor will be sealed.
- Signage across the network to reinforce safety messages to passengers, cyclists, motorists and pedestrians.



Government of South Australia

Department of Planning,  
Transport and Infrastructure



## Catching a train at the station

The new electric trains will look and sound different to current diesel trains so you will need to familiarise yourself with how these new trains operate. If you follow the usual safety precautions needed at any train station you will be safe.

It is important to stand behind the raised yellow lines, because the new trains will be quieter and faster and may not be stopping at all stations.

Always use the dedicated pedestrian footpaths to access railway stations.

If you have children make sure they are aware of the dangers of the electrical wires. Make sure they know not to play or walk near the train tracks.

Only cross at level crossings and at recognised pedestrian crossings. Don't take shortcuts along or across the railway tracks.

The presence of overhead wires means changes for some road users at level crossings, with the introduction of height restrictions on roads within the electrified network.

Electric rail services are coming to Adelaide in early 2014. The Department of Planning, Transport and Infrastructure would like you to please:

- Continue to use the rail network responsibly.
- Understand any changed conditions arising from an electrified rail system.
- *'Stay Switched On'* when you interact with the rail network.

## Further information

If you have any questions about the electrification project please:

- call 1800 644 735
- email [dpti.electrification@sa.gov.au](mailto:dpti.electrification@sa.gov.au)
- visit [www.infrastructure.sa.gov.au/RR](http://www.infrastructure.sa.gov.au/RR)



### 1. Insulators

To separate 'live' equipment from masts.

### 2. Overhead wiring

To transmit electrical energy to trains.

### 3. Pantograph

This is the frame on the top of electric trains. It contacts with the overhead wires that are connected to the power supply.

### 4. Cantilever arms

To support the overhead wiring system.

### 5. Masts

Made from concrete, masts will be approximately 50 metres apart and 8 metres tall.

### 6. Other live wires

Return conductor and earth wires are also live.



Government of South Australia

Department of Planning,  
Transport and Infrastructure

