

RVT Group provides fresh air for the prestigious Edinburgh Glasgow Improvement Project

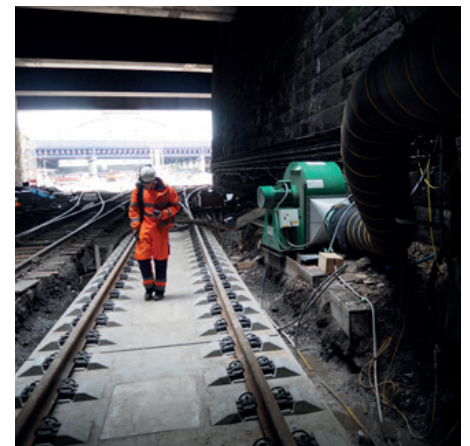
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EGIP facts and figures

- Biggest enhancement project undertaken on Scotland's railway since the Victorian era
- A 150km single track of new electrified railway
- Three completely redeveloped stations, including Glasgow's Queen Street
- 42-minute journey time on the Edinburgh to Glasgow route
- Expected 30% increase in capacity by 2019

E&G Railway's Largest Piece of Engineering Since Opening in 1842.

The Edinburgh to Glasgow Improvement Programme (EGIP) funded by Transport Scotland is a comprehensive programme to improve Scotland's railway structure.



These enhancements include:

- Shorter journey times
- More reliable services between Glasgow and Edinburgh
- Lower carbon emissions with a cleaner, greener railway
- Increased capacity aiming to reduce over-crowding at peak times

As part of the line upgrade, the Glasgow Queen Street approach tunnel was closed from March 2016 until August 2016.

This major piece of engineering work - E&G Railway's largest since the line opened to the general public in 1842 - renewed more than 1,800 metres of concrete 'slab' track, as well as putting in place the infrastructure that will carry the overhead electrification system.

And it was no mean feat.

- 140 days of continuous working
- 50 staff per day
- Clocking up over 500,000 man hours in total

Key benefits of RVT Solution

- Quieter, more compact and more effective than traditional methods
- Offers excellent flexibility in the event of an unusual reversal of the prevailing wind – one unit being positioned at the country-end of the tunnel to reverse airflow and clear deadlock

RVT Group were proud to contribute to the EGIP Project Team.

“The input from RVT Group contributed to the success of the Queen St Cowlairs Tunnel project, both in terms tender advice and providing a workable solution to our ventilation problem. The bespoke ventilation system provided effective control, backed with invaluable management support right through the project and most importantly safeguarded the wellbeing of the site personnel working within the tunnel. This brought the Project peace of mind, and meant we could get on with the job with confidence”

Neal McKenzie,
Morgan Sindall

RVT maintains air quality to protect the health of workers on site

The Queen Street Tunnel project consisted of:

- Breaking down and removing existing track slab
- Lowering and re-laying the slab and tracks
- Installing overhead electrification lines

All of which, had a completion deadline of just 21 weeks.

With a large number of processes and operatives working inside the tunnel 24 hours a day, 7 days a week, RVT Group’s role was crucial in providing and maintaining optimum air quality at all times – protecting the health of everyone involved in the project.

Due to challenging logistics at the Queen Street end of the tunnel, traditional methods of forcing large volumes of air towards the tunnel mouth would have been futile.

So RVT proposed and supplied a powerful, ducted high-pressure system to create an entrained airflow in the tunnel – a proven, effective, RVT method in maintaining a strong airflow through the tunnel and in removing contaminants, such as harmful exhaust fumes.

