



Bauhinia Electrification Project

Aurizon is committed to supporting its customers with greater supply chain flexibility through continued investment in the electrification of its rail network.

About the project

Aurizon is investing in the electrification of the existing 107km Bauhinia rail spur, from Rangal south to the Rolleston mine to harness the operational and cost benefits of electric trains. Electrification allows new high-capacity electric trains to operate.

Construction of the Bauhinia Electrification Project will commence in mid 2013 with planned completion late 2014. Construction works will include:

- » Civil works for electrical masts and access
- » Feeder station* on Struan Road
- » Power systems infrastructure construction inside of existing rail corridor:
 - › Track sectioning yard** at Kinrola Junction
 - › Trackside autotransformer and power supply cubicles***
 - › Overhead traction wiring system to the existing Bauhinia rail spur, inclusive of the Rolleston mine loop and Memooloo passing loop
- » Transmission line construction from Struan Road Feeder station to Ergon transmission infrastructure.

Fast facts

Electrification of the entire 107km Bauhinia rail spur

Location	From Rangal south to Rolleston mine
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Construction start	Mid 2013
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Construction completion and power connection	End 2014
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Project completion and final commissioning	End 2014
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Workers at peak construction	Approximately 100
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The facts stated above are based on initial estimates only and are subject to change and revisions.

*A feeder station is the infrastructure interface between the rail electrification and electricity authorities' high voltage power supply system to provide electrical traction power for the locomotives.

**A track sectioning yard extends the range the feeder station can provide to the electrical traction power.

***A trackside autotransformer and power supply cubicles make up a small power site required for the electrical traction rail infrastructure.

Bauhinia Electrification Project



The Bauhinia Electrification Project will lead to:

- » Increased efficiency by harnessing the operational and cost benefits of electric trains
- » Greater power system reliability
- » Optimal capacity of the Blackwater Rail System to cater for forecast increases in coal haulage demand.

The Bauhinia Electrification Project is one of four projects to be undertaken on the Bauhinia rail spur, with the final project completed by early 2015.

For more information on the Bauhinia Electrification Project and other Aurizon infrastructure projects visit aurizon.com.au.

Environment

Aurizon aims to continuously improve our environmental performance. An Environmental Management Plan will be implemented on site.

Community

Aurizon is committed to working with stakeholders and communities in an effort to address possible impacts our project works may have. Most construction will take place within the rail corridor. Aurizon will ensure nearby residents and businesses are informed of works prior to their commencement.

Safety

Aurizon has a **ZEROHARM** policy. The safety of staff, contractors and the community is critical to all its rail operations, including all work undertaken as part of the Bauhinia Electrification Project.

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