



# Tronox Western Australia plant – Kwinana

Project: **Constructing and assembling 6.6kV switchboard & switch-room with site installation of electrical works**

Project cost: **\$2,400,000**

Date: **Jan 2019 - Nov 2019**

## THE SITUATION: A brown-field electrical site

Tronox Australia is a global vertical integrated producer of titanium dioxide and inorganic chemicals. Tronox refines and processes titanium ore, zircon and other materials.



## THE CHALLENGE: Access and schedule

A few of the major challenges of working on a brownfield site are:

1. Constructing and assembling the 6.6kV of 25 panels MCC Eaton UX switchboard, lighting, DB, DC batteries, comms panel, marshalling panel and remote switching panel.
2. The site had constraints for switch room location. It was a unique platform being built on top of an old, brick building, which had to be made structurally sound.
3. A high level of civil work including a geo-tech survey, concreting and grouting and ensuring bottom level was able to hold the additional load.

### Key Technical challenges

Avid Group designed and built the housing for the switch gear and adapted the existing system to suit the new technology

However, the project included interfacing with a large number of legacy control and motor control systems. We needed to carry out re-termination of the existing HV cabling and re-connected the new protection relays back into site's SCADA system.

## THE OUTCOME: Greater reliability, safety and control

Tronox Australia Pty Ltd now has a safe and reliable high voltage motor control electrical infrastructure for their plant at Kwinana, Western Australia.



### THE POWER OF CONNECTION

Our connection with the Tronox team, especially the engineering team enabled us to meet weekly to develop and execute a plan that worked for everyone. Undertaking on-site installation on meeting client's shut down schedule.

