



SISSINGUE GOLD MINE

Project: **Modular, transportable switchrooms**

Project cost: **\$1,300,000**

Date: **November 2016 – June 2017**

THE SITUATION: **A remote mine site**

During the construction of their new **gold mine in Cote D'Ivoire in Western Africa**, Perseus Mining identified the need for three key pieces of electrical plant, crucial to their plans to achieve full-scale commercial gold production by 31 March 2018.



THE CHALLENGE: Transportability

The project comprised three key pieces of electrical plant:

1. 11kV & 415V Plant main switchboard and switchroom
2. HV & LV Power station main switchboard and switchroom
3. 415V Feed prep switchboard and switchroom.

Key technical challenge:

Making the switch-rooms easy to be transport to the remote mine site in Western Africa.

The switchrooms had to comply with the relevant specifications and standards, which meant they had to be **designed, built and tested in Perth**.

Crucially though, with transportability in mind, we had to **make the switchrooms modular, with compact switchboards**, making it easy to disassemble the rooms and then transport them to Cote D'Ivoire where they would be reassembled.

THE SOLUTION: One team, multiple disciplines

It was a complex project and a solution comprising many parts, so we had to work closely with a number of partners and suppliers to **ensure timely delivery**, right down to weekly delivery-date reporting from component suppliers.

Working with our partner, Aerison to ensure the switchrooms (modified sea containers) were of an acceptable size, we developed a **compact, fully withdrawable type-tested 415V 4000A 65kA rated back-to-back switchboard design**. This reduced the overall panel size, with field cabling matching the plant layout.

THE OUTCOME: On spec and working in the field

We collaborated closely with the client and our partners and suppliers to deliver **three fully tested, commission-ready switchrooms**, which were split into six sea containers, all while maintaining the containers' shipping certifications.

THE POWER OF CONNECTION

Multiple suppliers. Joint manufacturing responsibility. A remote client and site. This highly complex, multidisciplinary project is another great example of the power of connection.