PROJECT FACT SHEET

BEVERLEY PLANT SWITCHROOM EXPANSION PROJECT

CLIENT: HEATHGATE RESOURCES

To support current and future mine expansion at Heathgate Resources' Beverley Plant, Nilsen was engaged to design, construct, and deliver a new plant switchroom. The constrained, land-locked nature of the site required the switchroom to be installed in a suspended position above the existing room – presenting both engineering and logistical challenges.

Nilsen coordinated the full lifecycle of the project, from concept design through to construction, transportation, and off-site fit-out, ensuring the solution met Heathgate's operational requirements while minimising on-site disruption.

SCOPE OF WORK

Nilsen was responsible for the full delivery of the Beverley Plant Switchroom Expansion, covering design, construction, delivery, and fit-out.

The design and engineering phase involved developing all necessary drawings, schematics, and calculations to progress the project through to construction. This included switchroom layouts, switchboard designs, electrical schematics, and supporting structural and harmonic studies.

For the construction and delivery, Nilsen coordinated the manufacture of the new switchroom in partnership with ICS Industries. The building was fabricated to specification, fitted with key infrastructure such as distribution and control panels, fire detection systems, and cable supports, and then transported safely to site with appropriate permits and cranage.

The fit-out stage was completed at Nilsen's Ferryden Park facility, where the switchroom was fully equipped with the MCC, VSD connections, and associated cabling and terminations. This ensured the majority of the work could be completed off-site, minimising disruption at the mine.

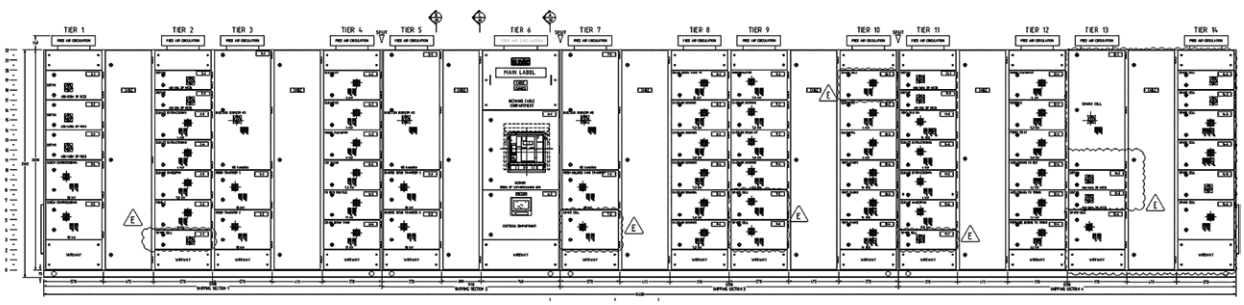
Finally, the Motor Control Centre (MCC) was constructed and delivered in multiple sections, incorporating design improvements made during development, including additional capacity and metering capability.

PROJECT PARTNERS

- ICS Industries – Modular switchroom manufacture and delivery.
- Nilsen Switchboards – MCC design and manufacture.
- Nilsen BIM Team – Coordination and digital integration.
- GPA Engineering – Independent structural and engineering review.

DELIVERY APPROACH

- Progressive issue of design documentation to GPA to minimise review periods.
- Off-site manufacture and fit-out to reduce mine site disruption.
- End-to-end coordination of design, fabrication, and electrical integration.

ACHIEVEMENTS

- Delivered the largest, heaviest, and most technically challenging switchroom Nilsen has completed to date.
- Overcame severe site constraints with an engineered suspended installation solution.
- Fully coordinated delivery chain: design construction fit-out delivery.
- Integrated MCC, VSD systems, distribution board, control panel, and fire detection into one cohesive plant solution.
- Successful execution of off-site fit-out works, ensuring safety, quality control, and reduced downtime for the client.