

PROJECT FACT SHEET

Customer: South Australia Power Networks (SAPN)

Project: Synagogue Place, Substation 433V Switchboard

Project Profile: Design & Construct a new substation switchboard

NILSEN is one of only a handful of switchboard builders worldwide that are able to undertake such a complex build. Operator safety was paramount in designing this 4000A fully folded and welded back to back switchboard for the Adelaide CBD.

Specifically designed for unlimited arc fault containment, this switchboard is equipped with explosion chambers that divert pressure and gases into the atmosphere away from the operator and bus chamber. This design was fully type tested by Testing and Certification Australia (TCA) Sydney.

Tailoring this switchboard around an existing footprint, as well as incorporating the current standards into our design, it was not only approved by SAPN but exceeded their expectations in performance and versatility.



Key Features include:

- Back to Back Construction
- Fully Folded & Welded Design
- Unlimited Arc Fault Containment
- Withdrawable Switchgear
- Arc Flash Detection
- Earth Switches on both Incomers & Feeders
- Conformance to substation earthing requirements

Future prospects include an additional nine substations that will utilize the type tested design.