

RETROFIT PROJECT

# 1962 SWITCHBOARD UPGRADE SECURING POWER TO OVER 6000 FAMILIES

## Profile

Product  
**Retrofit - SWR12/BSR**

Customer  
**Electricity North West**

Location  
**Wilmslow, Cheshire  
Northwest England**

Installation  
**2018**

Electricity North West delivers more than 23 terawatt hours of electricity each year to their customers in the North West of England.

That's the equivalent of 2.7 million electric heaters being switched on for a whole year.

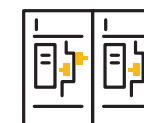
Electricity North West is responsible for operating and maintaining a network covering 5.4million customers in Cheshire, Cumbria, Greater Manchester, Lancashire and Merseyside.



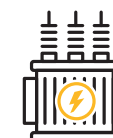
Around  
13,000 km of  
overhead lines



Around  
44,000 km of  
underground  
cables



Almost  
86,000 items  
of switchgear



More than  
34,000  
transformers

## The Challenge

The Wilmslow substation switchboard was manufactured and installed in 1962 and contained a mixture of South Wales C4X and D8/12X1 oil-filled circuit breakers. The eleven-panel switchboard supplies over 6,000 customers living in the town of Wilmslow, situated in the North West of England.

Hawker Siddeley Switchgear (now BRUSH Switchgear) were tasked with replacing the oil-filled circuit breakers with a modern vacuum alternative to be manufactured and delivered within the requested timeframe and within the allocated budget.

## The Solution

As the Original Equipment Manufacturer (OEM) of South Wales Switchgear and Brush Switchgear products, Hawker Siddeley Switchgear (now BRUSH Switchgear) were able to supply SWR12 630A circuit breakers.

A detailed inspection was made of the existing panels and position within the substation including current wiring configurations. Bespoke 630A and 800A high type breakers were then designed and manufactured according to the specifications derived from the survey.

## The Result

The eleven-panel switchboard was manufactured by the Hawker Siddeley Switchgear (now BRUSH Switchgear) staff at our main Blackwood site to a schedule that allowed for delivery and installation work to be carried out on time and within the budget set by Electricity North West.

Safely installed in 2018 Hawker Siddeley Switchgear (now BRUSH Switchgear) are happy to see another satisfied customer and we are looking forward to providing similar retrofit solutions in the future.



1962  
switchboard  
upgraded to  
modern vacuum  
alternative with  
minimal site  
disruption