

SMITH brothers

Case Study

HV grid connection:

Saint Gobain Glass

Northern Powergrid (NPg)

Construction Dates: January 2018 – August 2018

Objectives and purpose

Saint-Gobain – Europe's leading flat glass producer – enlisted the Smith Brothers team for a large-scale assignment, which included connecting the Saint-Gobain Glass manufacturing facility in Eggborough, Goole, to the grid.

As the Independent Connection Provider (ICP), Smith Brothers was tasked with upgrading the existing HV system and handling all electrical and civil engineering works involved in linking the facility into the local distribution network.

Project delivery

The turnkey project was delivered in eight months – from initial design, through to final commissioning – and the scheme of works involved replacing the previous private-wire system and conducting essential network reinforcements.

This entailed the construction of two 66kV outdoor substations – one private and one contestable – along with the required cabling works and installation of two parallel-fed 20MVA transformers along the route between the compounds. In addition, the engineers not only established an 11kV substation and control room, but also installed all associated electrical and protective equipment.

Having completed the site commissioning, the system was integrated into the NPg and Saint-Gobain networks and effectively energised.

Project manager, John Benson said: "For manufacturing sites like the Saint-Gobain facility – where smooth operations are key to business success – this is really important, as any unforeseen interruptions can be highly disruptive.

"Thanks to the great organisation and communication of the entire team assigned to the project – as well as the client, NPg and third-party suppliers – we were able to conduct the engineering works efficiently and successfully energise the site."



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