

CASE STUDY: NETWORK RAIL

About the project:

Network Rail owns and operates the railway infrastructure in England, Wales and Scotland. That's 20,000 miles of track, 40,000 bridges and viaducts and thousands of tunnels, signals, level crossings and points. It also manages rail timetabling and 18 of the largest stations in the UK. Working round the clock to provide a safe and reliable experience for millions of travellers every day means a resilient source of electrical power is absolutely essential.

Recent projects:

DTG has been supplying Network Rail for a number of years. Our most recent projects include:

- **Landore:** (Port Talbot) 100 kVA generator with dual DSE 8620 controllers. Open set supplied for container upfit into integrated principal signal point. Dual controllers specified in the region with selectable controllers and dual AVR in a fully compliant G59 operation.
- **Derby:** 200 kVA generator with enhanced controls, an open set container installed at a principal signal point. DSE 8660 frontend controller and DSE 8610 set mounted controller for dual control resilience and compliant G59 operation. DSE 890 remote communications provides remote access for complete control system.
- **Copely:** 100 kVA with enhanced controls, open set installed with 72 hour fuel supply integrated base tank for a principal signal point with DSE 8620 duty standby controllers configured as duty G59 STP (short term parallel) and standby amf. Controllers matched for sets operability function. DSE 890 remote monitoring.
- **Larbert:** 200 kVA 70 dba external canopy set with separate 72 hour bunded fuel tank. DSE 8660 front end controller and DSE 8610 set mounted controller for dual control resilience and compliant G59 operation. DSE 890 remote communications provides remote access for complete control system.
- **Whifflet:** signals Coatbridge controls upgrade. The existing original Thistle 120 kVA set with GAC controllers and PLC

synchronising chassis was replaced by a developed DSE 8620 panel which simplifies site operation for control of the new signals switchboard. This upgrade was size driven to meet existing cabling and spatial constraints. The DSE 8620 mains / generator synchronising controller along with DSE p100 G59 relay and DSE890 remote communications was required due to obsolete parts on the existing control chassis and the design is developed for use on other Network Rail sites. This was a plantroom open set site.

- **Inverlochy Fort William:** controls upgrade. This was an existing canopied generator 44 kVA rated with an FG Wilson power wizard panel. The controller upgrade was to fit a DSE 7410 panel for Network Rail familiarisation on controllers and to fit a DSE 890 to allow remote access due to the site location.

Application:

The gensets are built to Network Rail specifications around our Perkins or Leroy Built units with dual starting capability. Based on DSE controllers, each application has a bespoke control system developed for the particular site. The application dependent controls provide the flexibility required by the railway industry.

Why DTG?

DTG is an approved supplier of power generating equipment for Network Rail installations due to our technical expertise and proven track record in the rail sector.

What the client says:

"The team at DTG is technically strong, reliable and helpful, delivering on what they say and when they promise. We are very pleased with the all round service and enjoy continuing to work with the team."

