

# RENEWED POWER FOR THE GREAT BRITISH RAILWAY (ECN31)

---

CLIENT  
**UK TRAIN OPERATOR**

EQUIPMENT  
**67kVA LOW VOLTAGE OPEN  
VENTILATED ALTERNATOR**

APPLICATION  
**RAIL - TRAIN-MOUNTED  
POWER PACK**

---

## REPORT

The train operator noticed that the level of failures seen on their fleet had slowly increased over time.

Logging the failure modes enabled us to quickly spot trends and this particular trend of failure was reviewed. We were then able to use our specialist skills to offer improvements to provide them with increased durability.

The specification of the insulation materials was analysed and altered and the level of environmental protection was improved by applying a protective coating to the main stator. This provided increased durability whilst maintaining the expected performance levels of the alternator.