



ROSEBERY GROUP

CASE STUDY 14: 7.5MW STOR GENERATION HV AND LV DESIGN

Client:	Rosebery
Industry:	Generation
Plant Type:	Diesel
Project:	Design & Protection
Contract:	Lump Sum
Date:	2017

SPE was contracted by the Rosebery group to carry out some design work for a new 7.5MW generating site, forming part of the new STOR framework in Northamptonshire, UK.

SPE’s scope included developing a design and specification for the main HV switchboard, including the protection requirements and interlocking and inter-tripping arrangements with the LV breakers and the DNO. SPE then produced a detailed SLD of the power system defining all of the key electrical elements and interfaces of the system. SPE also carried out a series of cable sizing calculations for the site, considering the relevant site conditions, and fault levels for the site.

In addition, SPE provided ad-hoc support in liaising with the ICP and generator manufacturer to confirm the site fault levels, and generator earthing requirements.

“SPE was appointed to provide technical design services for the HV and LV systems of the new generation plant.”

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