



**CASE STUDY 9:  
NEW 9.5MW COMPRESSORS  
POWER SYSTEM STUDIES**

**STORENGY LTD.**

**Client:** Storengy  
**Industry:** Oil & Gas  
**Plant Type:** Gas Storage  
**Project:** System Studies  
**Contract:** Lump Sum  
**Date:** 2017

SPE was contracted by Storengy to carry out a series of power system studies to support the addition of two new 9.5MW, Variable Speed Driven (VSD) compressors to one of their sites in Stublach, UK.

SPE's scope included developing an ETAP model of the whole power system including the existing and new equipment and the associated solution mining loads. Once the model had been created and validated against the existing site operation, SPE undertook a loadflow and short circuit study to confirm the system operation parameters.

Once this had been completed, SPE then re-evaluated the existing system protection coordination settings across the whole plant. Finally, SPE then undertook a new coordination grading exercise for the new VSDs and associated auxiliary loads.

**“SPE was appointed to undertake a series of power system studies to support connection of two new 9.5MW VSD compressors.”**

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