



## Job Specification

<b>Job Title:</b>	Electrical Power Engineer	IS-10-18
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### Main Purpose of the Role

To design, consult and implement the grid connection of the 2MW Isentropic Pumped Heat Storage System to the grid at 11kV and subsequent systems including full electrical regulation compliance. The main power input/output is via a 6 pole synchronous motor/generator.

### Main Duties / Responsibilities

- Prepare and progress grid connection applications
- Define the technical requirements for the electrical design of the Isentropic Pumped Heat Storage System in conjunction with the Distribution Network Operators (DNO).
- Manage grid code compliance and Health & Safety requirements
- Provide support and guidance to the grid engineers
- Liaise with transmission and distribution operators in relation to charging and discharging from the grid on test and initial customer sites
- Assist with due diligence work with DNO for safe working practice
- Design and oversee installation of switchgear, transformers and generators to the machine including control circuitry
- To liaise as necessary with all the relevant internal company departments
- Willing to work additional hours as required and occasionally work off site.

### Skills, Experience and Personal attributes

- Detailed knowledge of G59 regulations, relevant electrical standards and quality control systems
- Strong technical background combined with an interest in working with commercial and regulatory aspects of grid connection of renewable energy
- Practical experience in grid connections
- Diagnosed and solved power system problems
- Experience with MW power transformers, inverters, synchronous motors and/or generators.
- Excellent communication skills and ability to review grid documents to identify and communicate technical risks to the project team
- A sound technical and practical understanding of grid electrical systems and the ability to resolve problems from first principles
- High levels of drive and tenacity to achieve development and project timings in the context of a constantly evolving technology

### Qualifications

Electrical Engineering Degree or equivalent engineering discipline, with considerable experience in grid electrical connection