



Case Study:

**MGH Delivers Battery
Energy Storage System
(BESS) HV and LV
Electrical & Mechanical
Installation Works**



Project Overview:

MGH is proud to present the delivery of HV and LV Electrical and Mechanical works to a 150MW Battery Energy Storage Plant (BESS) project in the North East of England. This project involved close collaboration with the Principal Designer, Principal Contractor and Major Equipment Supplier, as well as daily interaction with the site team and civils contractor.

Project Scope:

- Ground Level & Multi-tiered Containmentment
- 33KV HV Cable Installation & Termination
- PCS - BATTERY Unit DC Link Installation & Termination
- LV, Multi-core, CAT5E & Fibre Installation & Termination
- ITP, Mechanical Completion, Testing and QA Pack compilation
- Handover to Cold Commissioning Team

Collaboration and Teamwork:

MGH acted as the Main Electrical Sub-Contractor, providing project delivery and technical knowledge to ensure the optimal solution for the project, alongside managing a number of specialist subcontractors on behalf of the stakeholders.

Delivering Excellence:

Through this collaborative approach, MGH were able to:

- Assist in the optimisation of the project design for efficiency and cost-effectiveness.
- Ensure timely delivery of materials and equipment through effective supply chain management.
- Reduce the impact of SIMOPS on the construction programme.
- Maintain the highest safety standards throughout the entire construction process.

Conclusion:

The successful delivery of the BESS Project Electrical and Mechanical works demonstrates MGH's expertise in delivering complex energy infrastructure projects, while fostering strong collaborative relationships with partners and stakeholders. We are committed to providing innovative and sustainable solutions to meet the evolving needs of the energy sector.