



Case Study:

MGH Solar / BESS Farm Electrical Balance of Plant (EBOP)



Project Overview:

MGH are currently providing the Electrical Balance of Plant (EBOP) works on a 78-hectare Solar Farm in the coastal town region of Hartlepool, North-East England U.K. The Solar Farm once commissioned live would have a capacity of 49.9MW, and a battery energy storage system with a capacity of 25MW. The project has had its challenges with regular design changes and multiple additional requests from a very demanding client that are ranging from design, procurement and resource specialist request. This is something as MGH we manage very well and continue to collaborate daily as a team with the client.

Project Scope:

- Equipment installation at the various BESS locations on site.
- Above and below ground Level Cable Containment of various types and sizes, Using Civils, Mechanical & Electrical specialists.
- Low voltage, Multi-core, Paired Control, CAT6, CAT7 & Fibre Optic cable installation & terminations.
- DC BESS cable installation and termination.
- Below ground Earthing system around the various BESS locations on site.
- ITP, Mechanical Completion, Testing and QA Pack compilation
- Cold Commissioning and then support with the Client on Hot Commissioning.

Collaboration and Teamwork:

MGH acted as the Main Electrical Sub-Contractor for the EBOP due their vast experience in this field. This has given the client huge confidence knowing that MGH are there to support them providing project delivery and expert technical knowledge. This has been highlighted at a high level with not only the EPCM Client but also the main client who both want to continue collaborating with MGH on Future Scopes proving their strengths in not only project delivery but also key shareholder management.

Delivering Excellence:

- Maintaining the highest safety standards throughout the entire construction & commissioning process.
- Working closely with the client and assist in the optimisation of the project design for efficiency and cost-effectiveness.

- **Continuous monitoring on new advances in technology to provide the most cost-effective solutions for issues that arise.**
- **Ensure timely delivery of materials and equipment through effective supply chain management against aggressive project deadlines.**
- **Working with Stakeholders for time advances and SIMOPS on the construction programme.**

Conclusion:

MGH are continuously proving they are one of the market leaders in the industry providing quality installation works and this is something that is maintained throughout the business. All works follow a strict no-frills approach to Safety, Quality and Excellence and is proving time and time again that this approached works. No works at any level MGH are involved in are always completed to this high standard.

