

Botley

Botley 100MWH hr project is located near Southampton in an area known as Botley. Suir's scope of works on this project is the planning discharge, design, procurement, installation, commissioning & energisation of the 100MWH BESS facility which consists of 1.7km of grid connection that traverses public highway, SPOC area & private lands, completing these works was a challenge as there are a number of legal easements that required executing along with ensuring the design was aligned with the DNO (SSEN) specification. The site at Botley began construction last August 23 where we commenced cut & fill for the site footprint. Following on from achieving correct site levels & compaction tests works on the foundations for the battery infrastructure commenced – a total of 252 foundations were poured in-stiu with the associated cable ducting for the electrical infrastructure along with the installation of hard stands for crainage set up & off-loading. The project team have currently installed all the HV , LV , DC & control cables for the project & is well underway with the termination & testing, with the installation & connection of over 6000 batteries. The project consists of over 6000 lithium-ion batteries manufactured in Korea, 18 no. 3.5MVA transformers manufactured in Germany.

Scope of work

- BESS Cabling – MV, LV Aux, LV Aux (UPS), DC CablingLumcloon site will require a 5 bay contestable Eirgrid/ESB substation
- LV / HV cable support, uni strut, cleats
- Design and grid compliance studies
- 33kV DNO cable (+ pilot cable) and terminations & Testing – 1.8km 33kV Cable & FO Cable
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- Bespoke items and consumables
- HV cable and terminations @33kV CSS
- SAP and engineering
- Onsite HV testing and commissioning
- Sequential close panels
- 33kV DNO containerised switchroom inc 33kV switchboard, ancillaries and commissioning

Client: **LS Electric**

Start date: **October 2023**

End date: **December 2024**

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