

## Project Overview – Aylesford

### Project Statistics

**Project:** Aylesford Battery Storage

**Location:** Kent

**DNO:** UKPN



**Voltage:** 33kV

**Works Awarded:** Contestable Works, Balance of Plant

**Completed:** March 2018

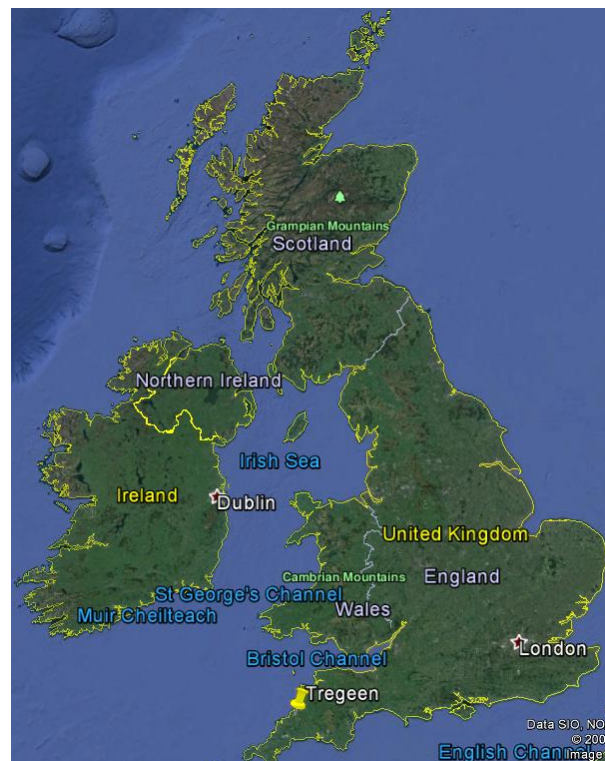


### Project Description

29MW Battery Storage project based in Kent, built out under the National Grid's T-1 Capacity Auction.

### SCOPE OF WORKS – CONTESTABLE WORKS

- Electrical, Civil & Structural Design for the Contestable Works & Substation including foundation.
- Earthing Survey & Design
- Supply & Install the DNO approved switchboard to include 33kV metering circuit breaker, Protection System, Battery & Charger to DNO specification.
- Supply & Install all multicore cabling within the DNO substation
- Supply and Install 1 x Container Substation including Foundation, Auxiliary Wiring, Heating, Lighting, Raised Handrails and Steps & Small Power
- Supply & Install 33kV Cabling including trench works and reinstatement
- Supply & Install pilot cable including terminations.
- Supply & Install all HV cable Joints and terminations where required.
- Supply & Install a standard Earthing Solution for the DNO substation.



### SCOPE OF WORKS – BALANCE OF PLANT

- Detailed Electrical & Civil design works to include substation, compound, cable and drainage plans
- Earthing study and report, plus all site specific system studies and Geotechnical surveys and reports
  - Supply and install of drainage and inspection chambers
  - Supply and install of internal and external access roads
    - Supply and install of security fencing
    - Supply and install of the below ground Earthing
- Supply and install of all concrete foundations for the Battery Containers, Substations, Transformers and lighting and CCTV columns
  - Off-load and delivery of the 16 battery containers
- Supply & Install 40ft Steel Containerised Substation to include; 33kV Switchboard, Battery & Charger, Metering Panel, Transformer, LVAC board and lighting, heating and power, Internal Earth bar & Earthing systems within the container.
  - Supply and install 33kV cable plus terminations
  - Supply and install LV and multicore cabling, including terminations
- Supply and install above ground Earthing systems to the above equipment
- As Principal Contractor, g2 Energy provided the on-site Welfare Units

