

WIND

Comhairle nan Eilean Siar Creed Enterprise Park Wind Turbine



- LOCATION **Outer Hebrides, Scotland**
- SYSTEM SIZE **500kW_e**
- EXPECTED ANNUAL GENERATION **1,450MWh**

Design, procurement and construction of a 300kW wind turbine for Comhairle nan Eilean Siar (Western Isles Council) and ongoing operations management to optimise performance.

Locogen was appointed by Comhairle nan Eilean Siar (CnES) to design, procure and project manage the construction of a 300kW wind turbine for the Council at the Creed Enterprise Park south of Stornoway. Ground investigation work was carried out at site to enable the design of the foundation and the balance of plant civil works. In addition, Locogen carried out the electrical design of the works between the wind turbine and the point of connection to the grid.

Our design work also identified an opportunity to maximise the renewable generation potential of the site through an increase in turbine scale (confirmed to be achievable as a non-material variation).

We then prepared the engineering specification and procurement documentation for three separate packages of work:

- The supply, installation and commissioning of the wind turbine
- The balance of plant electrical works to connect the wind turbine to the grid and to provide communications
- The balance of plant civil works for the access tracks, crane pads and substation

The procurement documentation was issued for tender and we assisted CnES to review and score the tenders received to select the preferred contractors. The Enercon 300kW E33 was selected as the preferred turbine model.

Locogen then project managed the construction of the project. The turbine was connected and commissioned ahead of the feed-in tariff deadline and now generates a significant income for CnES.

Locogen was subsequently awarded the asset management contract for this site, tackling issues associated with island renewable energy schemes, including weak grid, storm conditions and a more challenging maintenance environment. Our service includes performance analysis, maintenance coordination, regulatory compliance, operational administration and site visits to check the condition of the turbine and the associated infrastructure. This service minimises losses due to downtime and ensures the turbine continues to operate at peak performance.



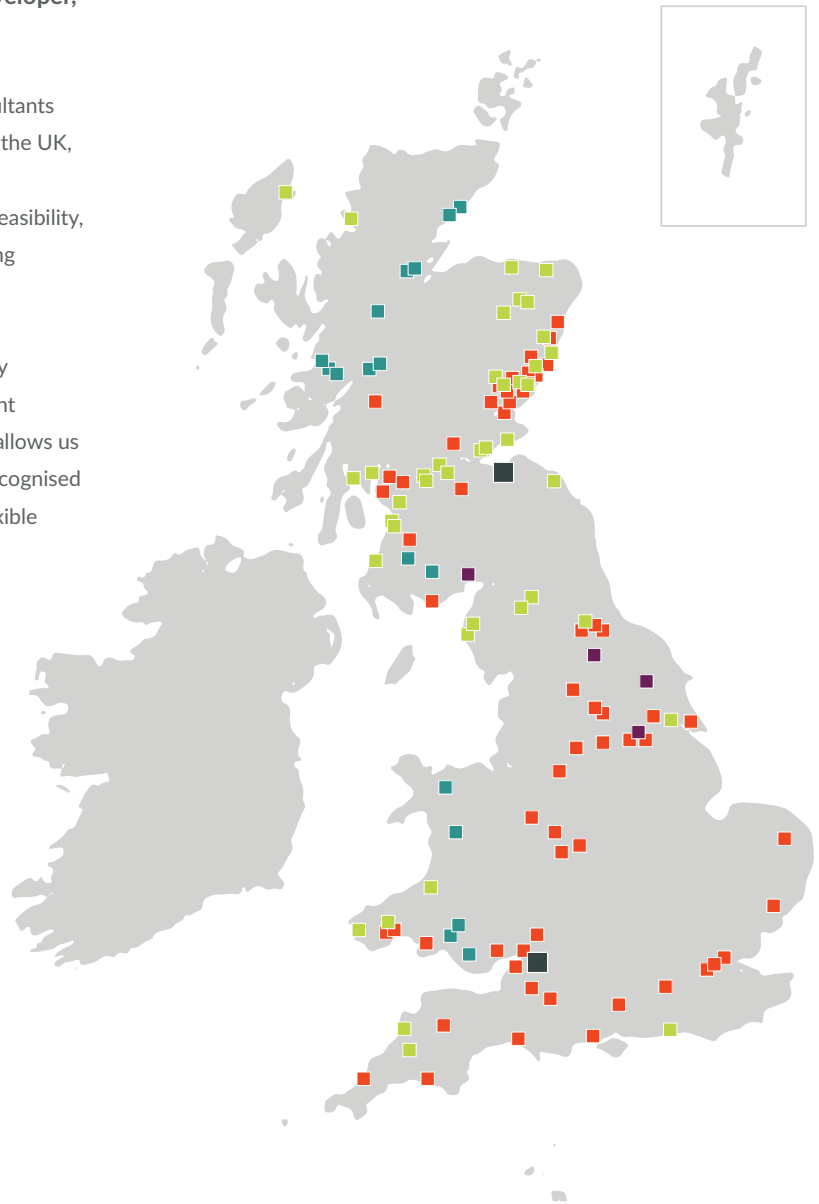
WHY LOCOGEN?

The Locogen Group, an award-winning pioneer in the sector, has been established since 2009 as a consultancy, developer, installer and operator of renewable energy assets.

Our team of engineers, project managers and technical consultants has delivered hundreds of renewable energy projects around the UK, covering wind, solar, hydroelectric and anaerobic digestion technologies. We take projects from initial concept through feasibility, design, consenting, due diligence, construction, commissioning and operation.

We have developed and operate wind, solar and hydro energy portfolios of our own. We also have a large Asset Management client-base which benefits from our experience; this volume allows us to spread costs and keep our services competitive. We are recognised as a proactive, honest and professional company, and our flexible services are renowned within the sector.

We have a national presence, with a UK-wide network of engineers and technicians giving us a quick response time, ensuring project down-time is low and system performance is maximised.



Our Projects

- WIND
- SOLAR
- HYDRO
- ANAEROBIC DIGESTION

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