

# WIND

Bespoke Community Development Company  
Greencraig Community Wind Turbine



- LOCATION **Isle of Lewis, Western Isles**
- SYSTEM SIZE **300kW**
- EXPECTED ANNUAL GENERATION **2,860MWh**

## 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.



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# WHY LOCOGEN?

Locogen is an internationally recognised and award-winning expert in facilitating the development, construction and operation of renewable energy systems for our partners and clients. Our vision is to see the world powered by 100% distributed renewable and low carbon energy; where everyone has access to affordable, sustainable energy and clean air. We work to realise that vision by providing investment-grade technical and commercial expertise and advisory services to support the development, design, build and operation of renewable energy and low carbon projects in the UK and internationally.

## SERVICE AREAS

We operate across all project stages, from site finding, feasibility and options appraisal, all the way through to construction, asset management and decommissioning. These services are delivered via our development, operational services, consultancy and energy services divisions.

## DEVELOPMENT

Locogen has been developing renewable energy projects since 2009. We have successfully developed utility and commercial-scale wind and solar farms, along with community hydro projects. We often develop projects in partnership with other organisations, such as private equity investors, landowners, international developers and community groups. We are actively seeking new projects to invest in and we bring considerable experience and expertise to ensure success. We also offer a zero-risk option for landowners, where we lease the site and take full responsibility for every aspect of the development. If you're simply looking for finance, we can help identify the best-fit deal or look at investing in your project ourselves.



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## OPERATIONAL SERVICES

Our operational services team delivers asset management, operation and maintenance services across a range of renewable technologies. Asset management is key to ensuring the proper operation of your renewable energy asset, maximising revenue streams and boosting return on investment. Securing the right asset performs to your expectations over the course of its lifetime. Locogen has comprehensive asset management packages for wind, solar and hydro projects. Services include performance analysis, maintenance co-ordination, operational administration, regulatory compliance and financial services. We tailor these packages to meet precise needs of individual clients. Our asset management team has an excellent record in minimising downtime, responding quickly to technical issues to maximise generation - and revenues. Our Power Purchase Agreement (PPA) service is free to all asset management clients and secures the best deals available.

## ENERGY SERVICES

Our energy services team complements our renewable energy consultancy and development divisions, offering contracting services over a wide range of technologies, including wind, solar, renewable heat and hydro projects. Our team includes experienced consultants, designers, field engineers, electricians and project managers. The renewable energy services team can also act as principal or main contractor, taking full control and responsibility for construction of your renewable energy project.

The team has worked extensively across sectors such as new-build and social housing, public sector, commercial and community groups. Our experience and expertise ensure these projects are delivered safely, on schedule and to budget.

## CONSULTANCY

Our consultancy team provides professional services at every stage in the life of a renewable energy project. At the very earliest stage, we conduct feasibility studies to advise on the viability of the project and perform formal due diligence services to ensure lenders or investors are appraised of all project risks. Our design team will take the project through from survey to complete project design and our consenting services will make sure all proper consents are obtained to allow the project to proceed. We offer expertise in mature technologies, such as wind, solar and renewable heat, and also advise on emerging sectors such as hydrogen, net-zero strategies, energy storage and local energy markets.

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