



- LOCATION **Lanarkshire**
- SYSTEM SIZE **500kW wind turbine**
- EXPECTED ANNUAL GENERATION **11,250 MWh**

The State Hospital were interested in offsetting as much of their own electricity demand as possible. Locogen was commissioned to complete feasibility, planning, grid connection and wind monitoring works for a medium scale wind turbine at the site.

Locogen was originally tasked with completing feasibility works to understand the opportunity to develop wind energy at the State Hospital site. The significant site electricity demand and open nature of the surrounding area lent itself to developing a turbine of 60-80m in total height. Due to the sensitivity of developing within the hospital, a preferable location was identified between the site boundary and adjacent railway line.

Following completion of screening and scoping works with all project stakeholders, Locogen managed the full planning works including detailed environmental assessments. These included detailed shadow flicker and noise modelling to understand the potential project impact, a full landscape and visual impact assessment, cumulative impact assessment, ecological surveys and transport studies.

As planning progressed, Locogen also managed a detailed wind monitoring programme and leased a 50m monitoring mast to ensure the available wind resource was well understood and accurate energy yield and financial modelling could be completed.

Planning consent was secured in January 2014. Locogen finally undertook the necessary grid works for the wind turbine to ensure the most cost-effective connection solution was offered by Scottish Power. The project then progressed to procurement and securing of financial incentives (Feed in Tariff).

Unfortunately, due to unforeseen development pressures, the site was not progressed to full construction and operation; however, Locogen is proud of the works completed on behalf of the NHS and hope that an opportunity arises in the future for this project to be delivered.



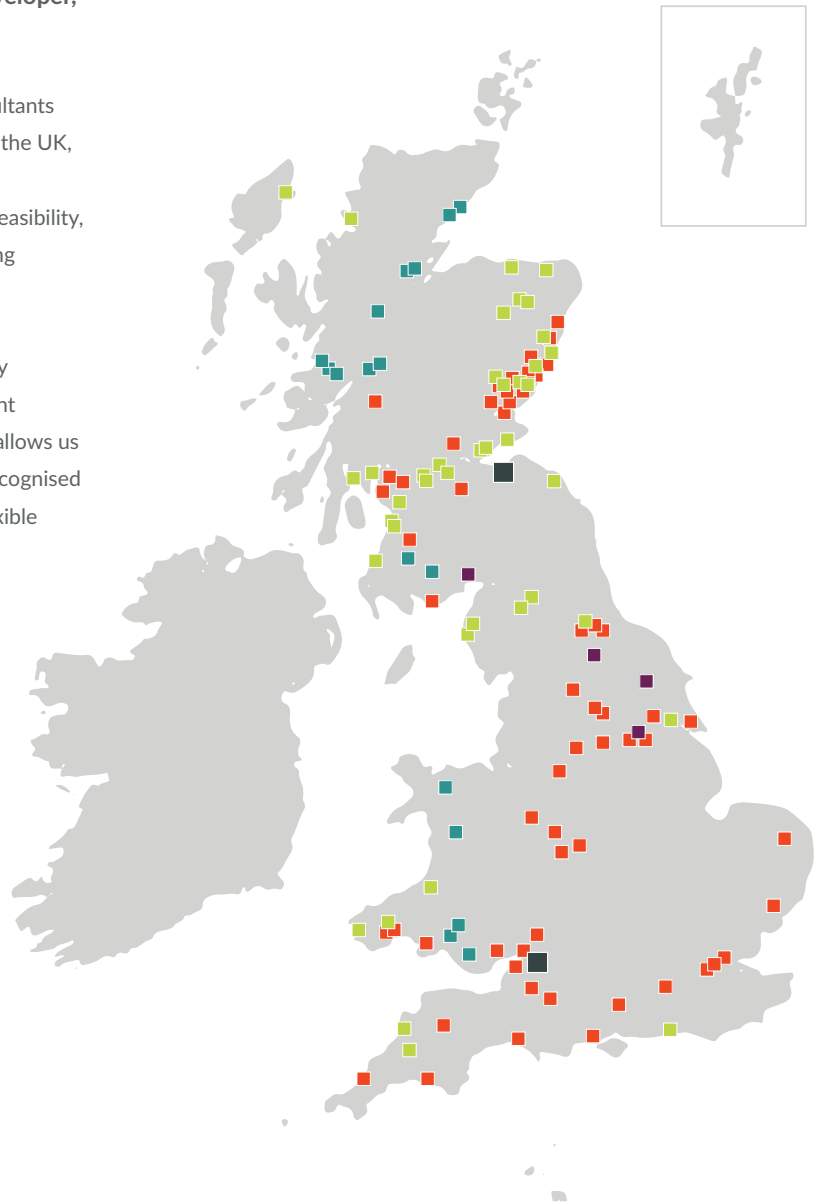
# WHY LOCOGEN?

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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