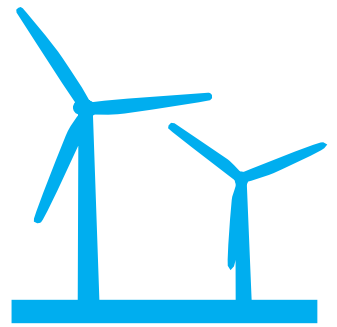


SiENERgy

Ltd

Wind Turbines

SI Energy Ltd offer services to those who want to install a wind turbine on a farm or industrial site. A wind turbine can give you the opportunity to become a producer of electricity that can be used to offset your current electrical demand and sell any surplus to the grid. You may even sell the entire output back to the grid. This combined with government incentives can generate a good return on investment from between 18 months and 5 years. For those who don't want the financial risk or hassle we can provide leasing and partnership options so that you can still get a return from your land.



www.sienergy.co.uk

SI Energy Ltd have been offering a selection of reconditioned turbines from Europe, ranging from 75kw to 1mw that are currently in operation on wind farms there. Those turbines are now being replaced in favour of bigger turbines due to generous incentives by their respective governments, to increase the electrical output from wind energy without having any new turbine sites. The turbines have been in operation for a number of years and all have an immaculate service history and fully documented working history which are supplied with each turbine. The make and model of turbine provided by **SI Energy** have been independently monitored and have come out best with regard to reliability, service cost and low number of faults against a full range of makes and models from a sample of 3000 turbine across Europe giving the reassurance that they will provide good generation capacity and income.

SI Energy has been repeatedly successful in all aspects of preparing sites for a wind turbine planning permission applications and applications for grid connection getting their customers the right information and the right outcomes.

Why wind generation?

Wind power is the first renewable energy ever exploited by mankind, from ships, windmills and pumping water up from wells, we now have the technology to fully utilise this natural and renewable energy to produce electricity and displace imports of expensive fossil fuels to create electricity. The island of Ireland is uniquely located on the western edge of Europe with an infinite resource of wind energy.

SI Energy can provide a full wind audit of any potential sites to assess their suitability for installation of a wind turbine. Turbines are most suited to agricultural farms and industrial applications that have a strong existing grid connection.



Feasibility Study

Si Energy can conduct a detailed on site survey followed by computer analysis covering the following topics:

- Confirmation of site boundaries
- Location of neighbouring properties and ownership
- Grid connection options
- Accessibility options
- Turbine positioning

Wind Speed Monitoring

We can install a wind monitoring mast consisting of two anemometers and one wind direction vane, measuring wind speed, wind shear, direction and temperature. Wind monitoring can be tailored to your specific requirements. The service can be provided on a supply of equipment and installation with/without wind reports for your site and against other sites that we monitor.

Planning Permission

Si Energy are involved in a number of planning permission applications with a high level of success rate, due to our detailed planning analysis, careful site consideration and selection while having the documentation that is required for planning. We can carry out the drawing up and submission of all documents required for planning, we assist in meeting planners on your behalf and constant monitoring of your application while providing the planning authority with additional information that they require.

Si Energy are involved in planning applications for wind turbine developments as our core business and have experienced the issues that can occur during a planning applications, it is with this experience and having the tools at our disposal that we can assist in the successful approval of wind turbine developments

Visual and Landscape Impact Analysis

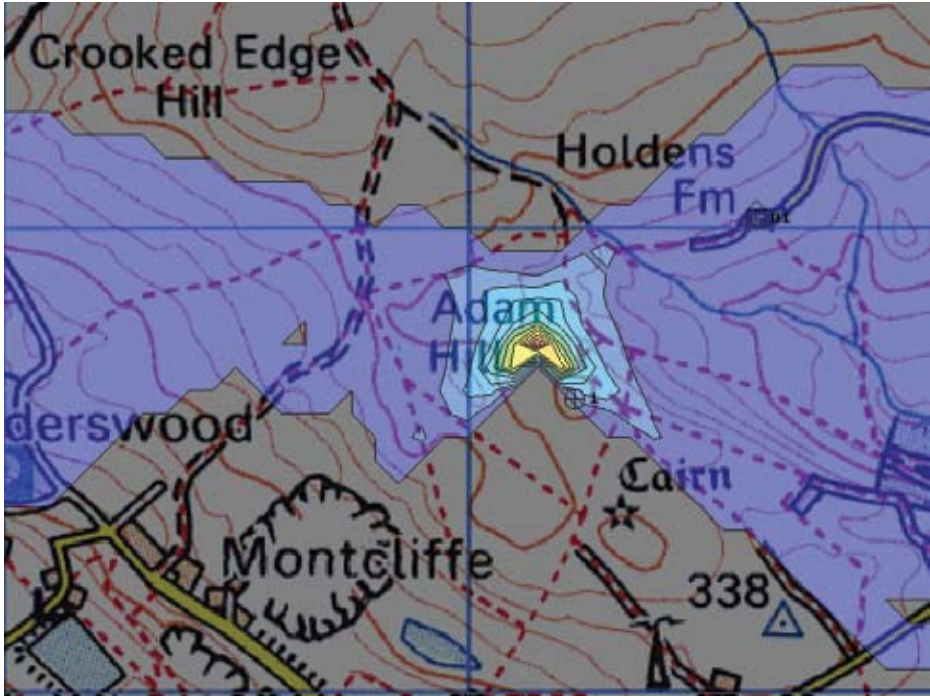
Through good site positioning and design, landscape and visual impacts are limited and appropriate to the location. We can provide full computer images placing the turbine into the landscape so that you and the planners can see what a turbine would look like when constructed, this will form part of the considerations planners use to assess. Using specialist software we can create computer generated photomontages to place turbines into the landscape and visualise the turbine from any viewpoint. The use of a visual and landscape impact assessment for applications in Areas of Outstanding Natural Beauty or for proposals that may impact upon important views, landscapes and settlements.

Biodiversity and Ecology Reports

Wind turbines by there very nature can have an effect on the local environment this can be in a positive or potential negative form, depending on site location. **Si Energy** aim to ensure that the environmental impact from the turbine is kept to a minimum and all wildlife and habitats are protected. **Si Energy** can provide Bat Surveys, Bird Breeding and Habitat Surveys with suggested methods of mitigating issues that may arise. Biodiversity and Ecology assessments is an important procedure for ensuring that the likely effects of a new development on the environment are fully understood and taken into account. The assessment can cover current land use, sites considered and reasons for final choice, flora & fauna, effect on wildlife and other environmental aspects. **Si Energy** aim to ensure that the environmental impact from the turbine is kept to a minimum and all wildlife and habitats are protected when needed by conducting Bat, Bird Breeding and Habitat Surveys and that natural resources and access are used where possible.

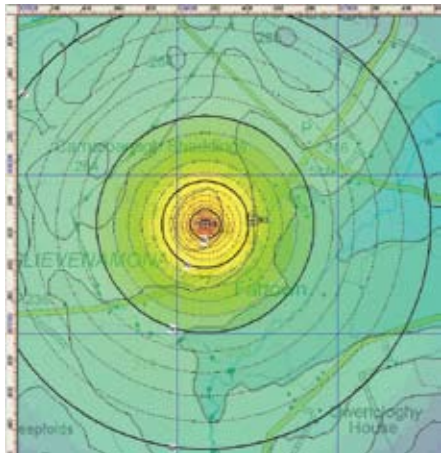
Shadow Flicker Analysis

Under certain combinations of geographical position and time of day, the sun's rays may pass behind the rotors of a wind turbine and cast a shadow over neighbouring properties. We can calculate any possible shadow flicker occurrence from your wind turbine or a number of turbines on any properties in the vicinity to the satisfaction of Environmental Health departments. If there is likely to be the occurrence of shadow flicker outside of recommended levels we can provide methods to limit this effect and minimise or eradicate the impact it may have on adjoining properties.



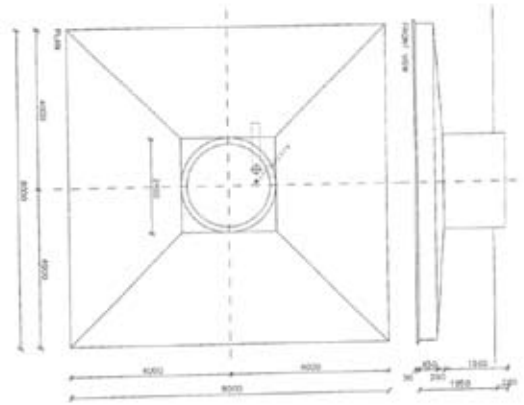
Noise Assessment & Contouring

Noise from wind turbines is the sound produced by the turning blades, gearbox, generator and hydraulic systems within the nacelle. Using specialist approved and calibrated equipment **SI Energy** can collect data onsite and prepare a full noise assessment while predicting turbine noise are carried out over a range of wind speeds and compared with recommended noise limits given in ETSU-R-97, the assessment and rating of noise from a wind turbine as has been required for planning approval. Perceived noise from wind turbines is the sum of the ambient or background noise and the noise from the turbines. If turbines are in an industrial or urban area, for example, the ambient noise can mask turbine noise completely. Trees can also mask distant wind turbine noise.



Construction

With our fully qualified and experienced wind turbine construction partners we provide a full construction and commissioning service to ensure that the turbine has been installed in manner that can maximise return on investment. Our installation partners have many years of experience working with these turbines, complete with appropriate insurance and qualifications to ensure safe and simple installation process taking the stress from a wind turbine development.



Grid Connection

We can assist in the application for grid connection having been through the process ourselves, we are aware of the time scale and the nature of information and documentation required. We can provide clients with technical documentation along with details of information that are required from the client to enable a smooth efficient application for grid connection.

Turbine Reconditioning

SI Energy Ltd offers a full reconditioning package with our service partners to ensure that they will give years of trouble free operation to their new owners. The reconditioning includes, inspection and/or replacement of the bearings, a full inspection of all moving parts including the drive gearbox, blade inspection and treatment, generator resistance to ensure the turbine is producing to its maximum output. The reconditioning service comes with full documentation of all procedures that have been carried out and warranty on work done. We have developed a few add-ons to the turbine for ease of management, better control and monitoring in order to give peace of mind and maximum operation availability of these machines. During installation of the turbine on your site, we offer fully qualified wind turbine engineers that come with many years of experience to tweak the operation of the turbine to match the local environment conditions.



Service and Maintenance

SI Energy Ltd can offer a full maintenance package to our clients in partnership with our service provider. Together we offer a range of packages from a twice yearly serviced routine package up to a full maintenance and operation package which covers all parts, servicing and fault finding complete with a guarantee availability of to produce electricity from the turbine.

Site Leasing

Property owners who are interested in renewable energy but not wishing to invest can still reap the financial benefits of having a wind turbine positioned on their site. **SI Energy** can finance and develop the entire project providing the landowner with a revenue percentage and/or electricity as a rental payment

We currently have a number of wind turbines available which we own and are looking to set up partnership agreements with farmers and landowners to install these turbines. These agreements can be in the form of investment share, land leasing, financing etc. If you work with us we provide a full turnkey service meaning we can take care of everything for you such as:

- Planning application
- Turbine supply
- Grid connection information and construction
- Foundation construction to manufactures drawings and standards
- Turbine commissioning
- Ongoing service & maintenance

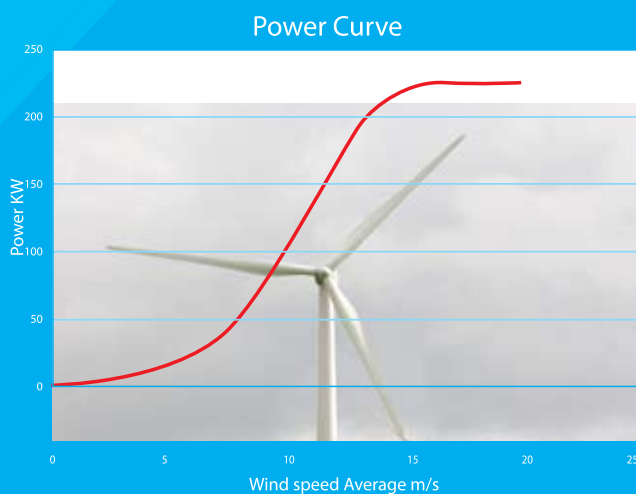
You can receive a regular annual income at no added expense for generating wind energy on your land if you lease to us or let us share the risk by jointly investing in the project. **SI Energy Ltd** focuses on generating power from single wind turbines in the 150-250KW range.

Throughout the agreement and partnership only a small fraction of your land is taken up by the wind turbine. The base of a wind turbine is relatively small and the blades are positioned very high so the land is still suitable for livestock grazing, harvesting, ploughing and many other activities. With our farming background we understand this can be an additional income without disturbing your regular farming practices.

We have been through the process ourselves and are aware of all the pitfalls and false horizons which developing a wind turbine project can have thus enabling us to avoid or overcome these obstacles.

If you're still considering your options we would be delighted to meet with you to discuss how we can do business together.

Power curve for wind turbine



Contact information

SI Energy Ltd, 1 Davies road, Newtownstewart, Co Tyrone, BT78 4NH

Office +44(0) 28 8166 1633 **Email** info@sienergy.co.uk **www** www.sienergy.co.uk