Seaton Newsbrief

This is a newsletter to inform you as a member of Seaton community of the plans that have been developed to construct two wind turbines at Voridian's site in Siddick.

Over the last two years Wind Direct Ltd. and Voridian have liaised closely with Allerdale Borough Council on the development of renewable energy at the Voridian site. In accordance with normal planning procedures, permission for the construction was granted in early September 2004.

As construction work by Wind Direct Ltd. will start in the first half of 2006, we want to inform you, as part of the involved community, about the progress so far and what the next steps will be. We welcome your views and feedback.

Wind Turbine Benefits

In many countries around the globe the use of renewable energy, and wind energy in particular, is increasing for the following reasons:

- *Reduction of carbon dioxide emissions in order to slow climate change:* Fossil fuels such as coal, gas and oil release carbon dioxide into the atmosphere, whereas wind energy produces no carbon dioxide.
- *A desire for cleaner fuels:* Traditional fossil fuels contribute to air pollution which can cause respiratory diseases, whereas wind energy is a clean fuel with no harmful by-products.
- *Reduction of the country's dependence on traditional energy sources:* Traditional energy reserves, e.g. oil, gas and coal, are declining. Wind energy makes a country more self-sufficient, less reliant on energy imports and less vulnerable to security threats. Renewable energy sources add diversity to energy supplies, providing a more dependable energy resource.
- *Wind is free and supplies are infinite:* The wind is a huge resource which can easily be converted to electricity. Maximum electricity production from wind turbines occurs at times of peak electricity demand, e.g. cold, windy winter days.
- *Value for Money:* The cost of wind energy is now very price competitive compared with traditional energy sources.

Wind Direct Ltd.

Wind Direct is a partnership between Wind Prospect, Econnect and Optium Energy, three leaders in their own fields.

The company was formed in early 2004 to offer a service to intensive energy users by providing them with a cheap, direct energy supply from wind turbines. The demand for this service has evolved from the large increases in electricity prices which industry has had to come to terms with. By utilising on-site wind energy, Wind Direct is able to provide intensive energy users with significant cost savings.

Voridian is a division of the Eastman Chemical Company and today has approximately 240 highly skilled employees in Workington.

At Voridian's site in Workington, PET (polyethylene terephthalate) and cellulose acetate tow are being manufactured. In 1969 Eastman started the production of acetate tow that is used for a variety of end uses, including cigarette filters and ink reservoirs for fiber tip pens. Since the end of 1988 PET has been produced at the Workington site.

PET is a reuseable plastic polymer used primarily in the packaging industry.

Founded in 1920 and headquartered in Kingsport, Tennessee, USA, Eastman is a FORTUNE 500 company with 2004 sales of USD 6.6 billion and approximately 12,000 employees. On January 1, 2002 Voridian was formed as a Division of Eastman Chemical Company.

For more information about Eastman and its products, visit **www.eastman.com**.

Responsible Care®
A Public Commitment

Voridian Polymer Ltd. is a Responsible Care company that is strongly commited to improve its environmental performance. The use of these wind turbines enables the company to secure energy generated from a sustainable source, underlining the company's commitment towards the environment.

Ian Earl, General Manager of Voridian's site in Workington is pleased with this investment: 'The turbines will assist the company in achieving targeted improvements in energy efficiency and at the same time reduce cost. The use of green clean energy from a renewable source fits perfectly in our Responsible Care policy. At the same time, the Voridian Workington site needs to reduce costs to keep its competitiveness. Recent large increases in prices for gas and oil have added to the value of this project. I am convinced the wind turbine project contributes to the longer term viability of our site, providing ongoing job opportunities to the local area.'

Design of Wind Turbines

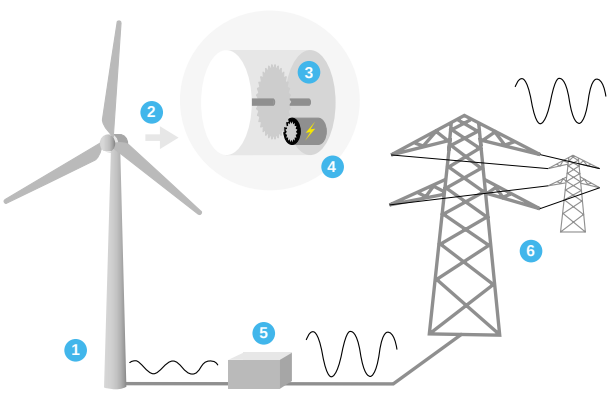
The wind turbines will be typical 3-bladed machines. They will be very similar to the turbines currently located at Siddick; although they will be taller.

The diagram shows a simplified version of how a wind turbine converts the kinetic energy in the wind to electrical energy.

Turbine locations

The wind turbines will be located on land owned by Voridian. One turbine will be located within Voridian's boundary at the south of the site. The other turbine will be located to the north of Voridian's fence boundary.

source: British Wind Energy Association



1. The wind blows on the blades and makes them turn.
2. The blades turns a shaft inside the nacelle (the box at the top of the turbine)
3. The shaft goes into a gearbox which increases the rotation speed.
4. The generator, which uses magnetic fields to convert the rotational energy into electrical energy. These are similar to those found in normal power stations.
5. The power output goes to a transformer, which converts the electricity coming out of the generator at around 700 Volts (V) to the right voltage for distribution system, typically 33,000 V.
6. The national grid transmits the power around the country.



Frequently Asked Questions

How big will be the wind turbines be?

The height of the towers will be 67 metres (220ft). The blade length will be 41 metres (135ft). That means the top of the towers will be a similar height to the chimney stack at the neighbouring facility.

The picture is an example of what the turbines will look like when viewed from Seaton.

Will the wind turbines be noisy?

Modern wind turbines are quiet. Advances in wind turbine technology mean that mechanical noise is almost undetectable. The latest developments in turbines also mean that the blades rotate much more slowly; this has led to a reduction in aerodynamic noise.

Have noise tests been done?

The planning conditions set clear limits on the amount of permitted noise. In line with these conditions, an independent acoustic consultant was appointed to monitor current conditions. This was completed in March 2005. Two noise monitoring positions were selected as they represent housing close to the development site which is not subject to adverse noise effects from nearby industry. The two positions will also show the difference in background noise based on topographic variation. These positions were agreed with Allerdale Borough Council's Environmental Protection Unit.

What were the results of these noise tests?

The report identified that any noise from the wind turbines will be lower than the existing background noise, and will be within the set limits. The limits represent the recommended day and night-time limits which mean that the wind turbines will not have a detrimental effect on the amenity of local residents.

Will the wind turbines interfere with my TV or mobile phone reception?

Agencies and commercial companies who operate the various signals in your area have been consulted during the wind turbine planning process. The results of this consultation indicate that the turbines are unlikely to affect your area. If you have any concerns regarding TV or mobile phone reception once the turbines are operational, please contact us. →



Will I suffer from shadow flicker?
Only properties which are both nearby and within 130 degrees of either-side of north, relative to the turbines, could experience shadow flicker. As the nearest property is 580m (634 yards) from the wind turbines, the potential for shadow flicker to occur is unlikely.

When will the construction be started?
It is likely to commence in the first half of 2006 with the construction of foundations for the turbines and other works associated with the project.

How long will the construction take?
Civil works will take around 2 months. Turbine erection will take place later in the year and will be conducted over 2 or 3 weeks depending on the weather.

What are the hours for construction?
Normally restricted to normal working hours. In extenuating circumstances, construction may need to run on or during the weekends.

What can you say about construction traffic?
During the civil works, concrete will be brought to the site over 4 or 5 days. During turbine erection, components will arrive over a few days, being stored on site or elsewhere locally before being brought to the site for lifting into place.

For more information, please contact:

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Seaton Newsbrief is a special newsletter for all inhabitants of the Seaton area to inform the community of the plans to construct two wind turbines at the Voridian site.

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