
NORVENTO STARTS SHOREHAM SITE CONSTRUCTION

Spanish medium wind manufacturer begins construction on pioneering twin turbine site at Shoreham Port, creating a model for on-site wind energy consumption

Shoreham, XX February, 2016 – Medium-scale wind turbine manufacturer, Norvento, today begins construction on a 200kW twin turbine site at Shoreham Port on the UK's South Coast. Once installed, two nED100 100kW turbines will cover the energy needs of the on-site Pump House, providing the environmentally conscious EcoPort with a means of further reducing its carbon footprint, alongside extensive financial savings and operational benefits.

As medium-scale wind power begins to achieve grid parity, industrial and agricultural institutions are increasingly relying on the technology to support energy-intensive operations. On-site renewables systems provide a reliable energy source for these operations, as well as unlocking multiple alternative revenue streams for institutions looking to diversify income, or balance out energy expenditure.

This role will continue to grow as equipment and installation costs fall further and with the success of innovative installations at sites across the UK and Europe.

At Shoreham Port, Norvento's turbines will feed electricity into the Pump House, directly supporting the energy-intensive process of maintaining water levels in the basins of the port, despite changes in the tide. The Pump House requires 475,000kWh of energy per year on average and the turbines will more than cover this demand, producing an average of 555,000kWh per year.

Offering a constant on-site energy supply, the versatile nED100 machines will also ensure increased flexibility for these operations by compensating for voltage fluctuations caused during start-up of the pumps.

The site has been funded by means of a long-term lease agreement which will see Norvento lease the two harbour-front sites and sell Shoreham Port the energy produced by the turbines at a rate substantially lower than typical retail electricity prices.

Over the 20-year timeline of the deal, Shoreham Port is set to save tens of thousands of pounds in energy costs. Combined with existing rooftop solar panels, the turbines will also help to wean the port away from fossil fuels and support its Eco-port status.

“Medium-scale wind turbines have demonstrated a wide variety of applications for industrial and agricultural institutions, and are increasingly becoming a cheaper and more flexible energy source than the traditional options. As such, institutions like Shoreham Port are employing them to cover energy-intensive operations which would otherwise result in very high energy expenditure,” commented Ivo Arnús, Director of UK Business Development, Norvento.

“The nED100 turbine has proved itself particularly well-suited for urban installations which require a model with minimal visual and noise impacts,” he added.

Norvento’s nED100 turbines were particularly well-suited to the needs of the port due to their IEC 61400-1 design standard for safety and reliability, as well as their unique low-noise mode, which enables them to operate in the vicinity of homes and local businesses. These factors were instrumental in securing planning permission for the project in March 2015.

Peter Davies, Development Director at Shoreham Port, said: “As an Eco-port we are keen to reduce our dependency on fossil fuels and generate green energy that we can use on site. We are confident that we have chosen the right turbines and that they will be an asset to the Port without impacting on the local area. Wind turbines aren’t suitable in every location, but the industrial setting of the port together with its long association with electricity generation must be one of the most appropriate places along the South Coast.”

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