

Sheringham Shoal

Operated by Statkraft



Sheringham Shoal – generating power from the wind

The powerful performance continues...

2015 was a record year for electricity production at the Sheringham Shoal Offshore Wind Farm, with total output amounting to 1,164.9GWh. Using the average annual domestic consumption figure of 4.192 MWh in DECC DUKES, this is sufficient electricity for 278,000 UK homes.

In December alone, the 88 3.6MG wind turbines produced more than 176GWh, which in itself was a monthly generation record for the wind farm. In achieving 97.9% turbine availability, 2015 saw a very powerful performance by the business.

General Manager Bjørn Mo Østgren congratulated the Sheringham Shoal team saying: *“2015 was a year which saw some great achievements, not only in terms of*

output and availability, but also in health and safety and cost control.”

Health and Safety is at the heart of all activity at the Sheringham Shoal Offshore Wind Farm, and one of the latest innovations has been the introduction of individual evacuation devices to reduce the risk of personnel becoming trapped in an offshore wind turbine or substation in the event of fire or any other emergency. The Cresto Smartline now enables personnel on offshore installations to evacuate simultaneously, using multiple escape routes and anchor points which avoids any delay.

This initiative has attracted industry wide interest, and was part of Sheringham Shoal’s submission which led to it being

a finalist in the RenewableUK Health and Safety Award 2016.

Bjørn Mo Østren added: *“The Sheringham Shoal team has come into 2016 in an up-beat frame of mind. There are some exciting plans in place which should further enhance the performance of the business, and I am looking forward to working with the newly appointed Power Plant Manager Adam Blake and his team to ensure their successful implementation.”*

New Power Plant Manager appointed

Following a Statkraft internal recruitment campaign, Adam Blake was appointed as the Power Plant Manager at the Sheringham Shoal Offshore Wind Farm during January 2016.

He replaces Jason Halsey who has moved within Statkraft to support wider development of wind operations.

Adam has been a member of the Sheringham Shoal team since 2011, most recently as O&M Manager.



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Umoe Firmus moored in Wells-next-the-Sea Outer Harbour

A UK first – Sheringham Shoal charters WaveCraft

The arrival of the WaveCraft vessel Umoe Firmus in the harbour at Wells-next-the-Sea at the end of February 2016 created quite a stir. Known as a Surface Effect Ship, Umoe Firmus is one of a new generation of personnel transfer vessels [PTVS] designed for use by offshore farm developers and operators.

The vessel has been chartered by Statkraft and has gone into service with Sheringham Shoal Offshore Wind Farm to support its O&M operations, transporting turbine engineers and technicians into the wind farm field.

Umoe Firmus has been built by Umoe Mondal in Norway, and is operated by the North Norfolk company Tidal Transit which, on the vessel's arrival, gave local stakeholders and media representatives the opportunity to look over this exciting new vessel.

The specification and capabilities of the WaveCraft vessel have the potential of making it a 'game-changer' within the offshore wind industry.

The 12 passenger WaveCraft uses an air cushion between its catamaran hulls to lift 80% of the vessel out of the water. The small draught that this creates provides it with easy

access to most ports, and will be ideal for use in the Outer Harbour at Wells-next-the-Sea which is subject to tidal restrictions. It also enables the vessel to travel at speeds of in excess of 40 knots whilst maintaining low fuel consumption, giving the vessel a range of more than 700 nautical miles.

Importantly for use on a wind farm, the pressure of the air cushion can be managed according to wave height which allows for smoother voyages and provides a greatly increased opportunity for access to turbines. It can operate efficiently and safely in wave heights of 2.5 metres, or even higher in a swell.

The WaveCraft is creating considerable excitement in the international offshore wind industry and Sheringham Shoal is pleased to be its pioneer UK user.

Team changes at Sheringham Shoal

Following his appointment as Power Plant Manager, Adam Blake restructured the Sheringham Shoal team to create seven integrated units covering the operations, engineering, site support, maintenance, marine logistics, finance and commercial functions.

Announcing the changes earlier this year, Adam said:

"I believe this revised structure, which contains thirty eight positions, has created a focused and highly motivated team which has the capability to deliver the ambitious targets that the business aims to achieve in 2016, and subsequent years. I am greatly looking forward to working with them all."

"We shall be making some important strategic decisions later this year, and I believe that these will result in some exciting additional employment opportunities here at Sheringham Shoal in the short to medium term future."



The new Sheringham Shoal management team

Spotlight on... Procurement progress

Since June 2014, Stuart Newby and his team have exceeded many expectations at Sheringham Shoal.

Through the inception and roll out of a new procurement and tender process, several challenges have been overcome including the migration of the purchasing and finance system, the introduction of a new parts management process and the negotiation of an agreement for out-of-contract parts.

Demonstrating value for money, quality of service and securing exceptional cost savings continually drive the department forward, whilst working in collaboration with the Finance, O&M and Marine & Logistics departments. Over the period, several new contracts have been tendered and secured including personnel transfer service vessels, davit crane replacement, transmission asset maintenance and a weather forecasting system.

The Procurement team is led by Stuart Newby (Commercial Manager, Contracts and Procurement), Charlotte Monsey and Juliet Allen as Procurement Consultants.

Sheringham Shoal on the Offshore Wind Electricity Map

The offshore wind electricity map to be found at www.thecrownstate.co.uk now includes the Sheringham Shoal Offshore Wind Farm. It is refreshed hourly and shows the estimated total electricity being generated by offshore wind around the UK, as well as the individual contribution from each wind farm.

Local Initiatives...

Youth STEMM at Alderman Peel High School

The Youth STEMM Award scheme is designed to help young people across Norfolk explore and develop their knowledge and passion for STEMM subjects – Science – Technology – Engineering – Maths – Medicine, and Alderman Peel High School (APHS) in Wells-next-the-Sea is one of 21 schools which is taking part in the new scheme.

The Sheringham Shoal Offshore Wind Farm has supported general STEM activities at APHS for some years, and was pleased to help fund the expenses associated with enabling a group of Year 11 girls to participate in this innovative Award scheme.

APHS Technology teacher Ashley Wykes said:

"We are very grateful for Sheringham Shoal's support for all our STEM activities. There was growing student participation in numerous events last year, and we are now able to continue to promote STEM and, in particular, enthuse girls to take a more active role in engineering."

Helping to improve facilities for local sports teams

Two local sports organisations in North Norfolk have recently received a helping hand from the Sheringham Shoal Offshore Wind Farm by way of donations towards projects designed to improve facilities for both players and supporters.

After 15 years of hard use, the team shelters at Wells Town Football Club were approaching the end of their useful lives, and in need of replacement, whilst in Sheringham members of the Sheringham and District Sports Association have spent nearly two years attempting to raise funds to improve both disabled and able bodied access to its clubhouse.

Sheringham Shoal General Manager Bjorn Mo Ostgren said:

"While the criteria for a grant from the Sheringham Shoal Community Fund can mean some types of community projects are ineligible to make an application, Statkraft's corporate and social responsibility policies can sometimes enable us to help in other ways."



The new team shelters at Wells Town FC



Jon Vatnaland, Statkraft UK Managing Director

Exercise Sheringham Response reception

Exercise Sheringham Response was a rigorous practice of emergency response procedures in handling a major offshore incident at the Sheringham Shoal Offshore Wind Farm. It was held during the afternoon of 10th September 2015, and was followed by an Evening Reception held at the Sheringham Shoal Visitor Centre at The Mo.

It was hosted by Statkraft UK Managing Director Jon Vatnaland and was attended by representatives of many of the wind farm's regional and local stakeholders.

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Wind Farm Visitor Centre At The Mo...

An educational, interactive & fun exhibition; accessible to everyone, group visits welcome.

- Learn about climate change & renewable energy
- Understand the historic importance of wind energy to North Norfolk
- See the development and construction of the wind farm unfold before you
- Learn about the daily operation and maintenance activities at the wind farm

In 2014 and 2015 the Sheringham Shoal Offshore Wind Farm generated enough clean energy to power over 250,000 British homes annually.

Free entry to exhibition
(Normal entry fees apply when visiting the Sheringham Museum).

Open:
April 1st to October 31st 2016
Tues to Sat: 10am – 4.30pm,
Sundays: Noon – 4pm
Mondays throughout June to September & school holidays.

01263 824482
The Mo, Lifeboat Plain,
Sheringham, NR26 8BG
www.scira.co.uk

Educational visits welcome
Contact us for more information



The Sheringham Shoal Community Fund

Since its establishment in 2010, the Sheringham Shoal Community Fund has made grant awards totalling over £370,000 to various community groups, charities and schools in North Norfolk.

The fund criteria relate to renewable energy, marine environment and safety, sustainability, or education in these areas. The fund is operated by Norfolk Community Foundation, and a panel made up of local representatives from the community, business and education sectors, sits twice a year to consider applications and award grants. Panel meetings are held in May and November.

Case Study

'Energy Rescuers' in North Norfolk

A grant of £7000 was awarded in 2015 to the Energy Rescuers project, which is running an educational children's workshop in 35 North Norfolk primary schools. The workshops are teaching Key Stage 1 and 2 pupils the importance of saving energy and educating them about renewable energy.

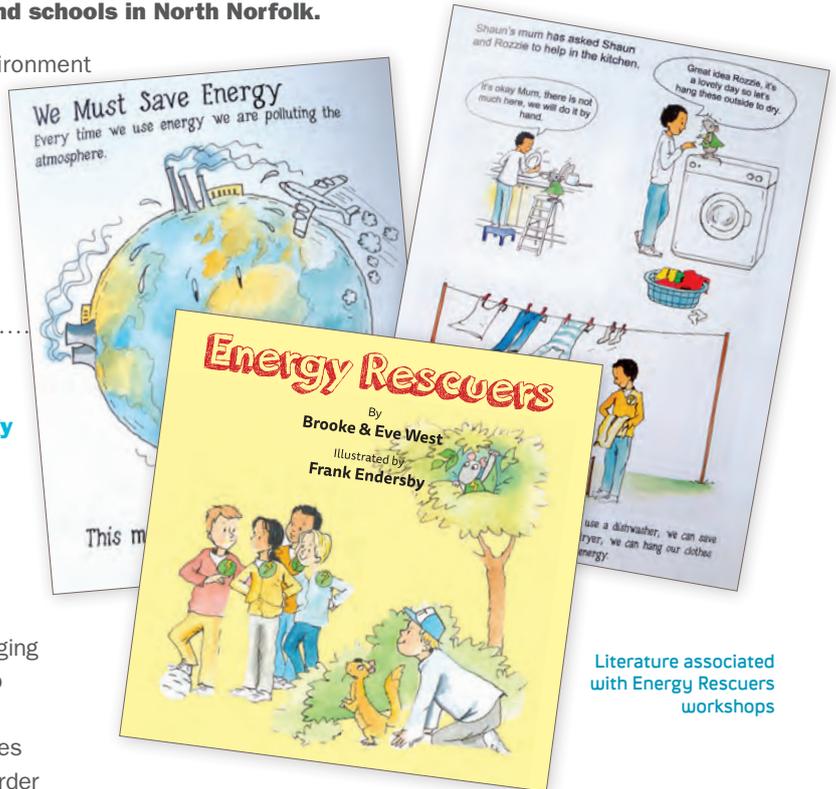
The Energy Rescuers project aims to deliver fun and engaging education about wise energy use and renewable energy to the children attending the workshops, which are based on storytelling, singing dancing and games. Each child receives a book to keep and share with their parents or carers in order to reinforce the energy saving message in their own home environment. The aim is to change habits at an early age and inspire energy education both at school and in the home.

The feedback from teachers in the participating schools has included:

"The presentation was very well matched to most children."

"Children were trying to think of energy saving ideas when they came into class."

"The poem was great -it got all the children involved."



Literature associated with Energy Rescuers workshops

The objects hooked pupils into the subject from the beginning and the acting engaged all."

The overall objective of the programme is to reduce energy use by 10% in the participating schools. An early analysis of short term energy and financial savings in 18 of the participating schools indicates that the project is progressing well, and Sue Falch-Lovesey, Head of Environmental and Outdoor Learning at Norfolk County Council, is looking forward to seeing the overall energy reduction results in these schools at the end of the project in North Norfolk.

Questions from the community...

Does the Sheringham Shoal Offshore Wind Farm support Work Experience or Apprenticeship Initiatives?

One week opportunities are available for students seeking work experience in North Norfolk during the period 26th June to 11th August 2016. Places will be awarded on a first come basis, so those interested should email their details to info@scira.co.uk as soon as possible.

Are there safety stand-by or guard vessels in the Sheringham Shoal Offshore Wind Farm?

The Sheringham Shoal Offshore Wind Farm does not use safety stand-by or guard vessels, but there is a closed circuit television system in the wind farm.

This gives the Marine Logistics duty team at Wind Farm Place real time vision of everything that is taking place in the wind farm site, and in the event of an incident this would enable them to alert the appropriate response services.

If you would like a question answered in the next newsletter, please email info@scira.co.uk

Contact details and more information

Sheringham Shoal is owned by Statoil, Statkraft and the Green Investment Bank through Scira Offshore Energy Limited. Statkraft is the operator for the Sheringham Shoal Offshore Wind Farm. Scira Offshore Energy Limited is the legal entity.

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