

July 2019

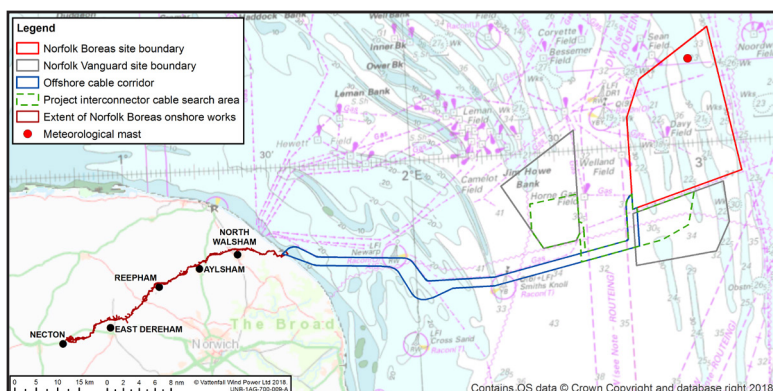
Vattenfall in Norfolk Newsletter



Welcome to the 9th edition of Vattenfall in Norfolk

In this edition, we report on:

- Norfolk Vanguard and Norfolk Boreas' progress through the planning process, and highlight how you can continue to influence the projects
- Offshore Wind News
- Community activities delivered this Spring - Summer and flag some forthcoming events

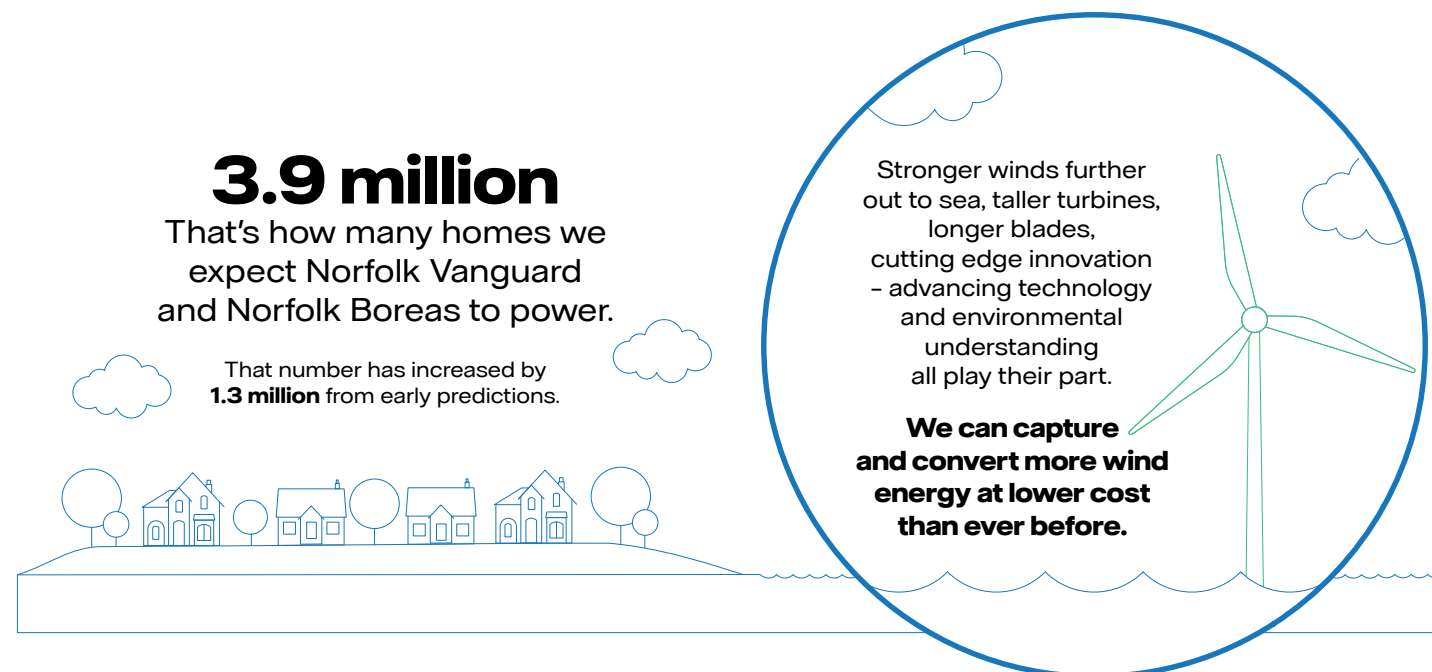


Planning news: Norfolk Boreas progresses towards Examination and Norfolk Vanguard awaits decision

In June, the examination of the Norfolk Vanguard application concluded. Also in June, Vattenfall submitted our Development Consent Order (DCO) application for the Norfolk Boreas project, and on 4th July 2019, this was accepted for examination by the Planning Inspectorate.

Currently, approximately 7GW of offshore wind energy is generated in UK waters and Vattenfall generates just over 1GW of renewable power in the UK. So, the potential represented by 3.6GW of fossil fuel-free energy (1.8GW each from Norfolk Vanguard and Norfolk Boreas) in the planning system is significant for UK consumers, for the growing East of England and Norfolk supply chain, and for Vattenfall.

On 25th June 2019, the UK Government passed important “Net Zero Carbon Emissions” legislation. Vattenfall’s Norfolk projects, if consented and constructed, will make an important contribution to delivery of the UK’s industrial and energy strategies.



Leading the way to a fossil free future

Next Steps

Norfolk Vanguard

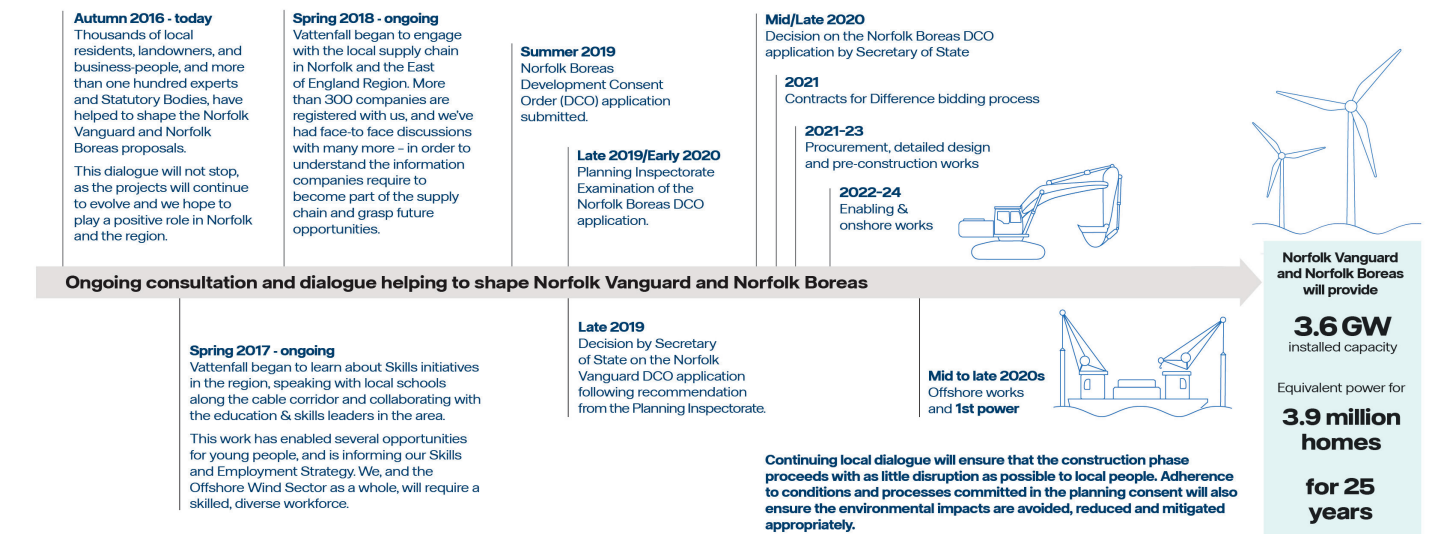
Over three months, the Examining Authority considers all the evidence submitted during the Norfolk Vanguard examination, and makes its recommendation to the Secretary of State for Business Energy and Industrial Strategy. A decision on the Development Consent Order for Norfolk Vanguard will be made towards the end of 2019.

Norfolk Boreas

The Planning Inspectorate begins now to guide Norfolk Boreas through the examination phase. You can follow the project's progress via <https://infrastructure.planninginspectorate.gov.uk/projects/eastern/norfolk-boreas/>

Notifications in the press, along the proposed onshore cable corridor, and on our website, inform interested parties on how to access the submission documents, and register with the Planning Inspectorate to participate in the examination process.

Norfolk Vanguard and Norfolk Boreas Indicative Timeline



The timeline outlines how important the involvement of a wide range of stakeholders, from local residents and landowners, to local businesses, experts and statutory stakeholders, has been in shaping the projects up to this point. For this huge collective effort – thank you!

All contributions help make these projects the best they can be, for Norfolk, the East of

England, for the UK and for the communities and businesses they have the potential to touch.

During the next steps, including the Norfolk Boreas examination process, and beyond into procurement, pre-construction, and construction, you can continue to follow the projects' progress and to influence how the projects evolve.

A flavour of the engagement which helped shape the Norfolk Vanguard and Norfolk Boreas proposals



38 Community consultation events, and workshops



2850+ participants



1300 items of written feedback



250+ meetings with Parish Councils, local groups and representatives attended by our team



9 community newsletters have been sent direct to more than **215,000** homes and businesses along the project area; tens of statutory and non-statutory notices placed in newspapers, and social media deployed to alert local people to consultation opportunities



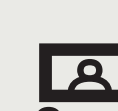
19 expert topic groups with national and local stakeholders, providing critical appraisal and guidance



120+ specialists who contributed to the data encompassed within the Development Consent Order



100% of landowners along the cable corridor we are proactively engaging with



20+ events and meetings to engage the local supply chain, with an estimated 580 suppliers involved



80+ separate educational engagement activities for young people, to enhance their understanding of the offshore wind sector and careers available in the industry

The numbers apply to the period October 2016 – to May 2019, ahead of finalising our Norfolk Boreas Development Consent Order Application.




Offshore Wind News


Offshore Wind Sector Deal


This initiative will help to deliver the UK Government's Industrial Strategy and Clean Growth – by enabling the development of at least 30GW of offshore wind power by 2030. In the past other sectors have benefited from this kind of understanding with government.

After two years of negotiations between the sector and Government, the deal was published on 7th March 2019. Energy Minister, Right Honourable Claire Perry MP, marked the occasion with a visit to Great Yarmouth to talk to business leaders who will lead the industry's efforts to deliver on industry commitments.

The Deal is built on the five foundations of the Industrial Strategy: Ideas, People, Infrastructure, Business Environment and Places, with outcomes and targets set for each theme. Vattenfall's investment will really step up once we are certain our projects will be consented and built. In the interim we are warming up to delivering our side of the bargain.


 **Ideas** – to be the world's most innovative economy – the sector will increase UK competitiveness, reduce costs, and increase UK intellectual property.

 **People** – to generate good jobs and greater earning power – deploying 30GW could support 27,000 jobs in the UK, including manufacturing. Achieving this requires more young people to enter the sector and a more diverse workforce. Building skills is key.

 **Infrastructure** – the Sector Deal represents a commitment to upgrade the UK's energy infrastructure, requiring an investment of over £40bn to 2030.

 **Business environment** – the Sector Deal encourages a more productive, competitive and export-orientated supply chain to grow up in the UK. Offshore Wind Growth Partnership, launched in May 2019 will manage developers investment into the supply

chain and skills agenda. Amounting to £250 million over ten years, this will drive increased UK content into the UK and exports to the global offshore wind market.

 **Places** – the Sector Deal will create more opportunities for investment and growth, including in coastal communities.

The Sector Deal, Norfolk and the East of England

The Offshore Wind Sector Deal is a very exciting development. It recognises the need for offshore wind generated in the southern North Sea to provide abundant, low cost, fossil fuel-free energy to transform the energy industry and our lives. The opportunities it presents for Norfolk, the East of England, the UK and the sector are huge.

If consented and built, Vattenfall's Norfolk Vanguard and Norfolk Boreas will be among the biggest offshore wind farms in the world, representing multibillion pound investment into the region.

Innovation in our projects and investment in cutting edge technology, including HVDC transmission systems, increased turbine sizes and digitalised operations, will help make energy production more sustainable and environmentally sensitive, and contribute towards the sector's drive to bring down energy costs.

We will be investing in skills and employability, because sensitive construction and sustainable production relies on a dedicated, skilled, sustainable workforce.

Our engagement with the supply chain is already underway. We are highlighting opportunities to local companies and explaining our tendering and procurement process. We are focused on skills and employability, and on building local relationships, which we look forward to developing over many decades.

Read more in the following pages.

Vattenfall in the Community

The teams developing Norfolk Vanguard and Norfolk Boreas have been stepping up local engagement recently, here is a round up.

Meeting the local Supply Chain

At the start of May, Vattenfall launched its UK offshore wind pipeline Supply Chain effort with a major interactive event in Norwich. Participants representing more than 200 companies came along to listen to speakers from across the UK and beyond to hear about UK and European opportunities, and to tell us how we can assist them in capitalising on the opportunities that Vattenfall projects present. For more information, look on our webpages or contact futuresupplychain@vattenfall.com

A partnership approach to supporting the local supply chain

Norfolk County Council, the Norwich and Norfolk Chambers of Commerce and Vattenfall are working together to support SMEs interested in gearing up for growth to meet the demand created by major project investment in the region. Using Norfolk Vanguard and Norfolk Boreas as examples of complex, major infrastructure projects, companies can consider the interests and needs of procurement managers, and how to prepare to deliver winning tenders. The collaboration has been supported by the New Anglia Local Enterprise Partnership. The collaboration represents a new way of supporting local companies. The first workshops attracting between 20 and 30 companies each were held in Dereham and North Walsham at the start of July 2019. More will follow. To find out more, contact: rob.lilly@vattenfall.com and nova.fairbank@norfolkchamber.co.uk



Supply chain event and business breakfast, all credits: Julian Claxton/CHPV/Vattenfall.

Vattenfall at SNS 2019

The Southern North Seas (SNS) conference, organised by the East of England Energy Group – hundreds of companies, large and small gathered under the banner “Energy Transition”.

Vattenfall had a stand, conducted many “meet the buyer” conversations, presented ideas and progress. Our Local Liaison Officer and Skills Champion addressed an audience of industry and academic colleagues on the theme “collaborating to support and develop the workforce of the future” which touched on key themes: diversity, inclusion, transition and job mobility.



International Women's Day

Vattenfall is committed to enhancing opportunities for all, and developing a more inclusive and diverse workforce. For this reason, we were honoured to participate in Norfolk Business Sector's celebration of International Women's Day and share a platform with some amazing role models. We also invited students from University Technical College Norfolk (UTCN), The Nicholas Hamond Academy and East Norfolk 6th Form to participate in the event and a team building and leadership workshop.



Internships 2019

Following a successful programme last year, Vattenfall will be participating in this summer's Ogden Trust East Coast Energy Internship Programme in collaboration with partners Purple Tuesday, 3DW, TMS Media and with students from East Norfolk Sixth form and UTCN. Two teams will work on two separate projects for a period of four weeks, with the aim of providing students with formal work experience and also a broader insight into the wide range of skills, disciplines and expertise required for roles in wind energy and in supporting industries.

Feedback from last year's intern students provided us with valuable insight into the skills, knowledge and experience gaps of those who would like to pursue careers in our industry and this has informed both the internship project briefs and a series of careers-focused webinars scheduled for the students during their time working with us. We look forward to reporting on their progress and achievements later on in the year.



3D - Offshore Wind Modelling Tool for Students

Vattenfall has been working over 2 years in partnership with UTCN, UEA and 3DW to develop our 3D virtual reality wind farm development programme for colleges. Students develop their skills and pass them on, as inspiring and proficient peer mentors to younger students. In June we were thrilled to hear a joint bid to the Institute of Engineering and Technology was successful. The award will enable the programme to benefit 20 more colleges across Norfolk and Suffolk. For more information contact Vattenfall's Local Liaison Officer, Susan Falch-Lovesey on 07817 544235 or email susan.falch-lovesey@vattenfall.com.



Norwich and Norfolk Eco Awards

Vattenfall sponsored Norfolk County Council and Norwich City Council's Norwich and Norfolk Eco Hero Award this spring. While all three shortlisted candidates have superb eco credentials, teacher Matt Willer won the online public vote and took home the Eco Hero Award for his work on Reepham High School's Allotment

Project. The Eco Awards panel said: "Matt's energy and commitment to sustainability and teaching is inspiring. The best sustainability leaders give others space to innovate."



Image credit: Julian Claxton/CHPV/Vattenfall.



Student mentors delivering peer-to-peer wind farm design session using 3D VR technology at UTCN in Norwich. Image credit: Julian Claxton/CHPV/Vattenfall.



Shortlisted Eco Heroes: Amy Shaw, Matt Willer and Nadia Sparkes with Susan Falch-Lovesey, Vattenfall's Local Liaison Officer. Image credit: Courtesy of Norfolk County Council.



Reepham Food Festival

This June, Reepham Rotary again organised a terrific Food Festival. Vattenfall as sponsors were invited to speak and chose to reflect on the themes of the festival - community, sustainability and local produce - and our shared journey to ever climate smarter living.



Great Yarmouth Arts Festival

Also in June, Vattenfall enjoyed our involvement in "Festa Fiesta" a very inclusive, family-friendly event. We worked with the world celebrated Sea Change Arts, to deliver a collective "wind powered art" project. It proved to be a fun way of starting to talk about the very many roles required to successfully develop, construct and operate a best in class wind farm. After adding to the canvas, "artists" reviewed a varied and long list of jobs to put their name to. We hope some of the young people, and parents too, might in the coming years fulfil their ambitions to take up those roles in the industry in the future. Canvases produced on the day now grace the walls of the Drillhouse, Great Yarmouth, the brand new Energy and Engineering Centre at East Coast College, Lowestoft, and Vattenfall's London office. Thank you to the artists.



Getting to know communities closer to our proposed onshore project substation

In recent months we have been talking with community groups and representatives in and around Necton, and look forward to meeting many more in the future. Here is how we've been interacting with people so far.

Vattenfall salute the dedication of the Necton Sports and Social Club, and all who made the Necton Football Tournament such a success. Vattenfall's Local Liaison Officer, Susan Falch-Lovesey, chatted to crowds and joined them in cheering on the 63 young 5-a-side community teams. Despite experiencing all four seasons in two days, the teams and organisers gave it their all.

Necton School invited us to join them at the Summer School Fete. We loved seeing the creative variety of activities and performances on display. Our offering was to take pupils and parents on 3D virtual reality journeys on a crew transfer vessel to an offshore wind farm. This led to some great discussions about Science Technology Engineering and Maths (STEM) career choices and pathways. You are never too young, or too old to learn about where STEM subjects can take you.

Necton Little Oaks nursery is a special place for some of Necton's youngest residents. Parent committee members asked us for support to create a healthier and greener environment - we were happy to help them realise their energy-reduction plans.

These interactions help us begin to appreciate local interests and priorities. Thanks for the welcome, the conversations and ideas. We'll be talking a lot more as our projects evolve and we learn to work together.



Great Yarmouth Arts Festival: Festa Fiesta.



From top to bottom: Football festival Tombola; Necton Football Tournament; The virtual reality headset was a hit at Necton school's summer fete.

Coming Next



Creating STEM Opportunities

Over the last two years we have provided opportunities for students of different ages, from primary to university undergraduates, to combine STEM learning with teamwork and leadership development. We've been so impressed by how they all rise to these occasions, and how receptive new learners are to being guided by their peers. A project we began with Colby Primary School exemplifies the positives of the approach. Now, building on early work with pupils, teachers and Governors, Colby has developed a fantastic STEM focused set of renewable energy activities, which they enthusiastically and professionally deliver to other local primary schools. Soon they will work with pupils at Cawston, Swanton Abbott and Necton Primary Schools. To find out more, please look here, www.colby-ecohub.org.uk and contact head@colby.norfolk.sch.uk if your pupils want to participate.



Norwich Science Festival

The Science Festival is run by the Forum Trust as a celebration of the ground breaking scientific research and technological advances associated with the city and county. Vattenfall are headline sponsors for the Technology theme. Technological innovation drives our industry and we are hoping to meet many innovators young and not so young while we are there. Save the date and join us at our stand on 25th October 2019.

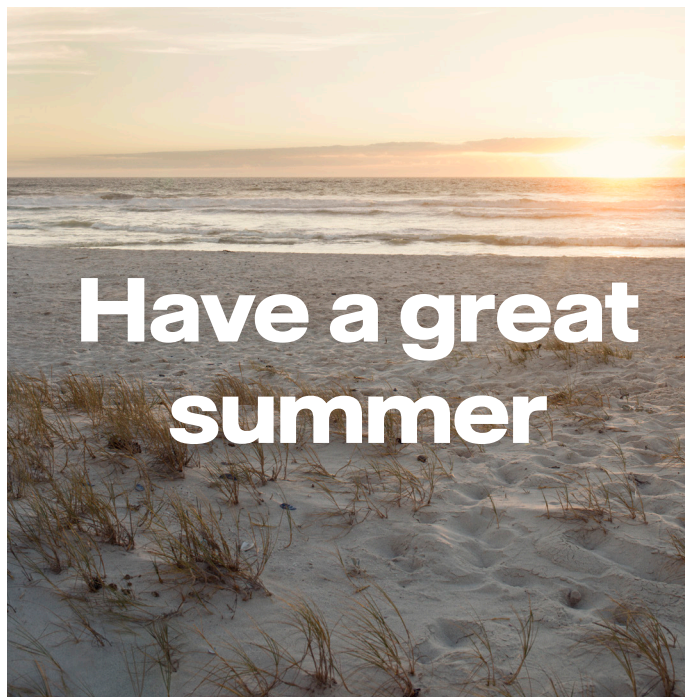


A Year in Industry

Starting in September, Angus Binnian – an engineering student at the UEA – will join us during his placement year at our London office, working with project engineers, on tasks related to detailed design of our onshore cable construction programme. Ever since he introduced himself to us, Angus has helped us on many events in Norfolk, from delivery of the 3D offshore wind farm modelling programme to supporting our Local Liaison Officer at local events, including recent delivery of teamwork and careers skills workshops groups of young carers from Great Yarmouth and Gorleston.



Student Mentors, with Angus on the right.



Contact us

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