

# Norfolk Boreas Offshore Wind Farm

# Consultation Report

## Appendix 18.2 October 2017 newsletter

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*Photo: Ormonde Offshore Wind Farm*

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# VATTENFALL IN NORFOLK KEEPING YOU INFORMED

## Formal consultation announced

Vattenfall is proposing to build Norfolk Vanguard Offshore Wind Farm in the Southern North Sea. With a generating capacity of up to 1.8 Gigawatts, it could power 1.3 million UK homes.<sup>1</sup>

Norfolk Vanguard is a Nationally Significant Infrastructure Project (NSIP) under the Planning Act 2008. We will need to make an application through the Planning Inspectorate for a Development Consent Order (DCO) to build and operate the project.

We are writing to inform you that our formal stage of public consultation, known as the 'Statutory Consultation' will take place between **7th Nov – 11th December 2017**. During this time we will be publishing information about the project to inform you of our latest thinking and the results of key assessment and survey work. **We have also published our Statement of Community Consultation (SoCC)**. In this newsletter you can find out more about the consultation process and how you can get involved.

### What's in this newsletter:

- Norfolk Vanguard Statutory Consultation – information points and drop-in exhibition schedule.
- Norfolk Vanguard – latest project refinements
- Project Photomontages – examples of what you can expect to see at our drop-in exhibitions
- Norfolk Roundup
- Norfolk Boreas – short update

### About Vattenfall

- 100% owned by the Swedish state
- Operations in Sweden, Denmark, Finland, Germany, the Netherlands, Poland, and the United Kingdom
- Ten UK offices with over 200 staff
- Since 2008, we have invested £3bn in the UK
- Aims to be carbon neutral by 2050
- Pioneers in offshore wind and energy solutions (e.g. e-mobility, district heating, decentralised generation)

## What's happening now?

In late October, we will publish our Preliminary Environmental Information Report (PEIR). This shows the results of all our data gathering and assessment work so far.

This work and the feedback we have received from local residents and stakeholders has all informed the latest maps and plans that we will show you. Please come along to a local event to find out more and talk to the team. These plans will continue to be refined and developed, so it's important you come along and share your views.

## Norfolk Vanguard timeline<sup>2</sup>

**October 2017**

**Statement of Community Consultation (SoCC) published**, setting out how we will consult



**Summer 2018 –** Development Consent Order (DCO) application submitted

**Mid/Late 2019 –** Decision by Secretary of State following recommendation from PINS



Ongoing informal consultation

We are here

**October/November 2017**  
Preliminary Environmental Information Report (PEIR) published and start of formal consultation.  
**Public drop-in events**

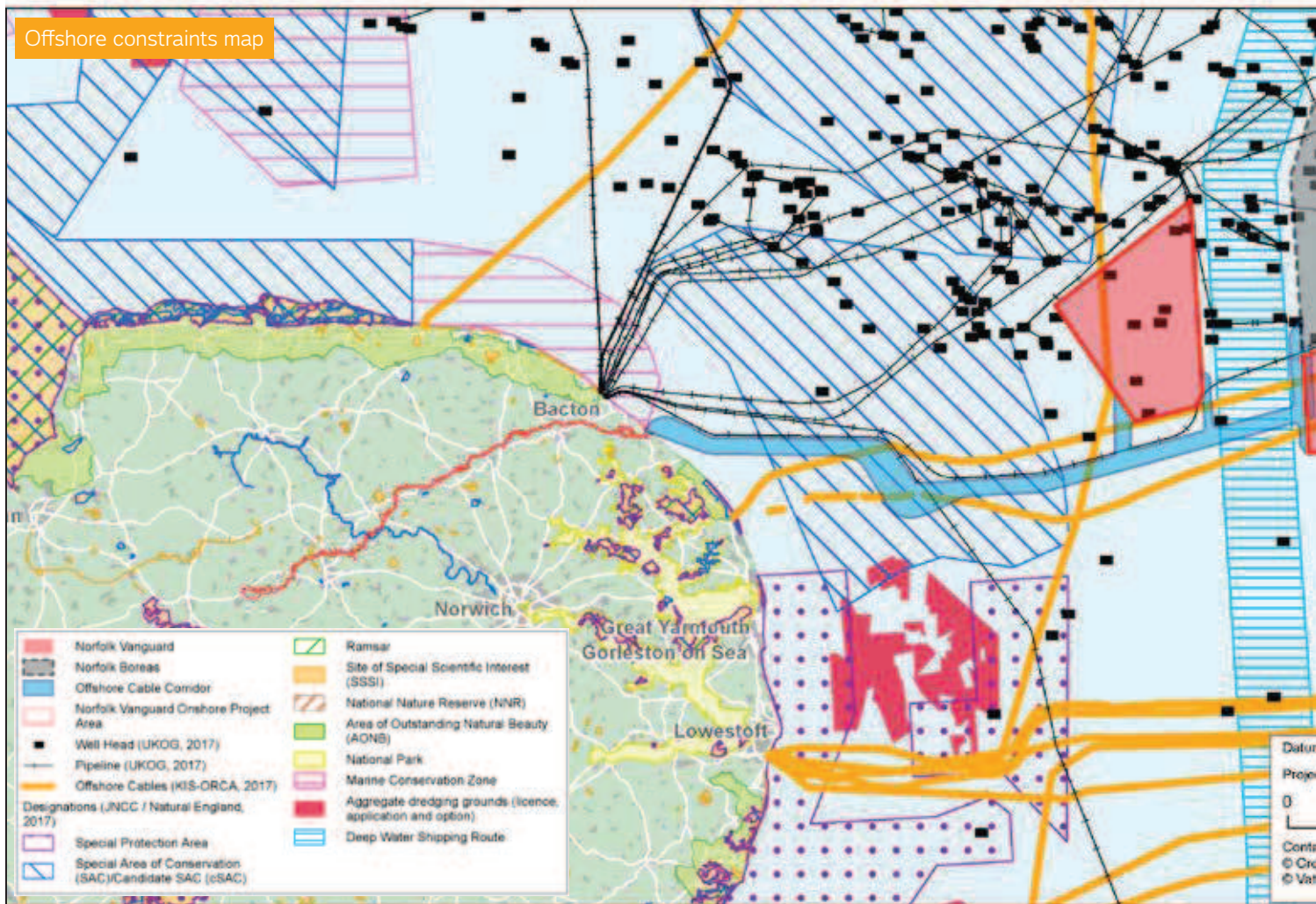
**Late 2018 –** Planning Inspectorate (PINS) Examination of the DCO application and supporting documents.

**Your opportunity to make representations on our application direct to the Planning Inspectorate**

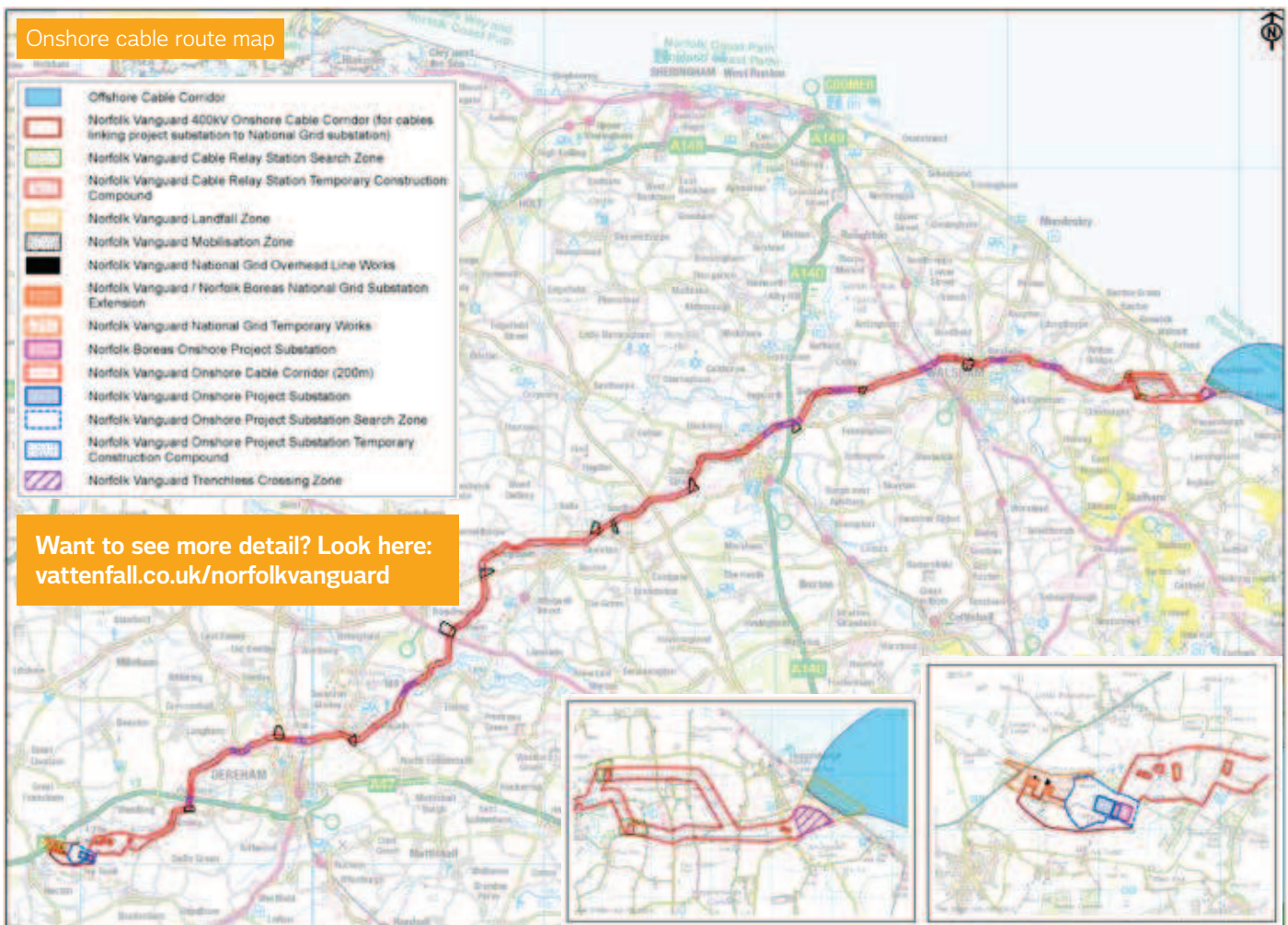
Formal consultation starts: **07/11**  
Feedback deadline: **11/12**

<sup>1</sup> Number of homes equivalent: This is calculated using statistics from the Department for Business, Energy and Industrial Strategy showing that annual UK average domestic household consumption is 4,115kWh: [renewableuk.com/page/UKWEExplained](http://renewableuk.com/page/UKWEExplained) <sup>2</sup> A more detailed timeline is available in the SoCC [vattenfall.co.uk/norfolkvanguard](http://vattenfall.co.uk/norfolkvanguard)

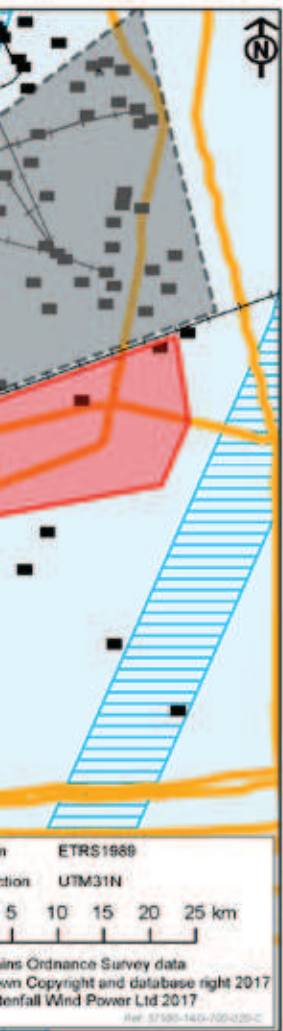
Offshore constraints map



Onshore cable route map



Want to see more detail? Look here:  
[vattenfall.co.uk/norfolkvanguard](http://vattenfall.co.uk/norfolkvanguard)



## Components of Norfolk Vanguard offshore wind farm include:

Turbines (between 90 – 257)	Potential installed capacity for each turbine is 8 – 20MW
Offshore substations	Up to three
Array Cables between Turbines	514km of 66kV cables
Offshore export cables	Up to six 220kV cables (620km) or up to four 320kV cables (420km)
Fibre optic cables	Installed with the cables for data and monitoring purposes

## Refining project proposals – what’s new?

A wide range of environmental surveys undertaken over several years inform the siting and choice of components, to deliver a world class, future-proof project (see also p5).

People have asked why we and National Grid identified the existing substation near Necton as the best place to connect the energy generated by our projects into the National Grid, rather than elsewhere along the coast, for example. Identifying a grid connection solution is a challenge for any nationally significant power generation project and the aim is always to identify a solution that balances efficient installation, economics and environmental considerations. The offshore constraints map (left) illustrates some of the many environmental constraints that influenced the siting decision.

We have further developed the siting of the **Onshore Project Substation & National Grid works**, to maximise the potential for natural screening.

We have also refined the **Landfall Search Zone area**, which accommodates the co-location of Norfolk Vanguard & Norfolk Boreas transmission cables. No cabling will be installed underneath properties.

With regard to **Cable Relay Station (CRS) Search Zones** – we are considering two options, and correspondingly two cable corridor options near landfall. More work is required in order to determine the best location for these should they be required.

There are small, but important changes to the **Onshore Cable Corridor** to note, for example the design now includes an additional trenchless crossing to avoid potential environmental impacts to a county wildlife site, watercourse and a number of mature trees.

We would like your thoughts on the Norfolk Vanguard proposals, how we intend to build it and how we propose to reduce any potential environmental effects, including micro-siting.

Photomontage: illustrates a view of Cable Relay Station (CRS) 5a - one of two options under review - from “The Street” Ridlington, without mitigation



Photomontage: illustrates a view of Cable Relay Station (CRS) 6a - one of two options under review - from Nash’s Lane without mitigation planting





## Hello I'm Ruari Lean

*As Norfolk Vanguard's Project Manager, it's my job to oversee the tasks, from engineering and environmental impact assessment to stakeholder consultation, that shape a state-of-the-art offshore wind farm, delivering energy to the British consumer at the lowest possible cost. In addition, I'm committed to ensuring that the project will be one that delivers benefits directly to Norfolk.*

Since October 2016, we have held twenty exhibitions and workshops and talked directly to more than 1,850 people which has led to a number of project refinements, **which are noted in this newsletter.**

Very soon, the project will enter a phase of "Statutory Consultation". From 30th October, detailed environmental information will be released. Your input at this stage will feed into the refined plans we submit to the Planning Inspectorate (PINS) in 2018. This is a great time to get involved, whether you have participated before or not. Why not join us at one of our public information days (see back page) and meet the project team?

We have prepared a Statement of Community Consultation (SoCC) which describes how we will consult in more detail and explains where and how you can learn more about the proposals and provide us with your feedback. It's on our website, and available to view at a number of venues listed in this newsletter.

I look forward to hearing your views over the coming weeks.

## How do I recap / catch-up?

Receiving this newsletter for the 1st time? Recap on project development? Look here: [bit.ly/NorfolkVanguardDocuments](http://bit.ly/NorfolkVanguardDocuments)

## Norfolk Boreas – what's happening?

Proposals continue to be refined through Norfolk Boreas' Environmental Impact Assessment (EIA) process and through learning from the Norfolk Vanguard EIA process. Vattenfall has developed clustered projects in the North Sea already. Clustering aids the delivery of low cost renewable energy for the consumer, through shared infrastructure, improved knowledge of constructing and operating in the area and improved supply chain opportunities.

Norfolk Boreas will be submitting it's DCO application in Q2 2019, approximately one year after Norfolk Vanguard.



on planting



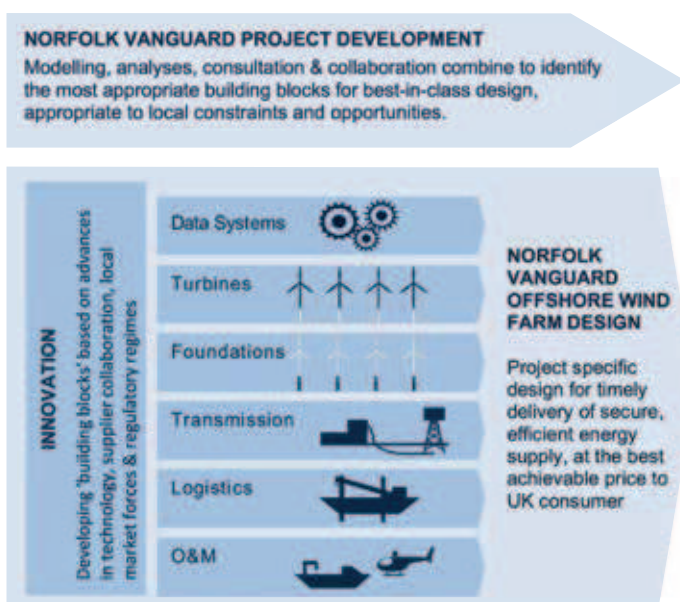
See photomontages of proposed permanent onshore infrastructure (for AC & DC scenarios) with planting options in the PEIR & at drop-in exhibitions.

## Innovation – a local talking point in Norfolk

The price of offshore wind has dropped by over 50% in under five years – it is now the lowest cost option for large-scale, low-carbon power for British consumers.<sup>3</sup>

This extraordinary cost reduction is a result of innovation – in larger turbines, new sea-bed foundations, power transmission systems, whether AC or DC, as well as increased competition among developers and supply chain growth spurred by burgeoning confidence in the sector. What's more, it's regions including East Anglia that are poised to really take advantage of this green growth. Norfolk is fast becoming a UK and global centre for the renewable energy industry.

<sup>3</sup> On 11th September, 2017 the Department for Business, Energy and Industrial Strategy announced the results of competitive auctions for new contracts to provide clean electricity to UK consumers.



Interested in supply chain and skills development opportunities – register your interest on our website [vattenfall.co.uk/norfolkvanguard](http://vattenfall.co.uk/norfolkvanguard)

## Norfolk Roundup



### Offshore design training – rolling out to 8 Norfolk Schools & Colleges this October

A trial session at University Technical College Norfolk has led to learning and refinement of a new 3D virtual reality offshore design programme aimed at giving students an authentic and innovative experience. Using the most up to date technology, the programme also focuses on collaboration and leadership – key skills that Vattenfall will be looking for in its future Norfolk workforce. Find out more about Vattenfall Career and Graduate training programmes here: [bit.ly/VattenfallCareers](http://bit.ly/VattenfallCareers)



### East Of England Energy Group (EEEGR) Awards 2017

At a vibrant energy industry awards event, organisations from across East Anglia showcased inventions, innovations and up-skilling strategies. Vattenfall were delighted to sponsor the Skills for Energy Award. The winners were East Coast Energy Internships. Congratulations to all shortlisted projects. Find out more: [ogdentrust.com/about-us/news/post/1694-ogden-energy-internships](http://ogdentrust.com/about-us/news/post/1694-ogden-energy-internships)



### Launch of Norwich and Norfolk Eco Awards

Vattenfall are excited to be the Principal Sponsor the 10th Eco Awards, helping to promote and encourage organisations in Norfolk who share our commitment to climate smarter living. Find out more: [norfolk.gov.uk/what-we-do-and-how-we-work/campaigns/norwich-and-norfolk-eco-awards](http://norfolk.gov.uk/what-we-do-and-how-we-work/campaigns/norwich-and-norfolk-eco-awards) and [corporate.vattenfall.com/about-vattenfall/strategy-and-objectives/](http://corporate.vattenfall.com/about-vattenfall/strategy-and-objectives/)

Pictured: FoodCycle, winners of the Eco-Community Group Category 2016



### Launch of Norfolk Community Foundation Stay Well this Winter Campaign

Vattenfall is keen to make a significant contribution to Norfolk life and we are delighted to support the work of Norfolk Community Foundation and the 'Communities that Care – Stay Well this Winter' campaign. This will benefit vulnerable people in the community that are facing real challenges as the weather gets colder. Find out more: [norfolkfoundation.com/funds/communities-that-care-stay-well-this-winter-fund/](http://norfolkfoundation.com/funds/communities-that-care-stay-well-this-winter-fund/)



### Looking forward to Offshore Wind Week 2017

Vattenfall are joining with RenewableUK, EEEGR and a whole host of offshore wind operators as well as established and new players in the industries' burgeoning East Anglian supply chain in celebration of Offshore Wind Week on November 9th and 10th at OrbisEnergy in Lowestoft. [eeegr.com/events/offshore-wind-week-east-anglian-event-1721.html](http://eeegr.com/events/offshore-wind-week-east-anglian-event-1721.html)

Our Local Liaison Officer, Sue Falch-Lovesey is updating Parish Councils and others on project development. If you have questions, or want to organise a focus group session for your community group during the Statutory Consultation, or want to discuss any accessibility issues, contact Sue using the details provided on the next page.

## How you can get involved

A period of formal 'Statutory Consultation' on our proposals for Norfolk Vanguard takes place between the 7th November and 11th December 2017.

We have published a **Statement of Community Consultation (SoCC)**, which sets out how we are consulting key stakeholders, statutory bodies and the local community on our proposals for Norfolk Vanguard. The SoCC can be viewed now on our website or in hard copy at the information points – locations and times – shown below.

Organisation	Address	Opening Times
Aylsham Library	7 Hungate St, Aylsham, Norwich, NR11 6AA	<b>Mon and Fri:</b> 9.30am-12.30pm and 1.30-7:00pm <b>Tues and Thurs:</b> 9.30am-12.30pm and 1.30-5:00pm <b>Wed:</b> 1.30-7:00pm <b>Sat:</b> 9.30am-4:00pm <b>Sun:</b> 11:00am-2:00pm
Dereham Library	59 High St, Dereham, NR19 1DZ	<b>Mon, Wed and Thurs:</b> 9.15am-5:00pm <b>Tues and Fri:</b> 9.15am-7:00pm <b>Sat:</b> 9.15am-4:00pm
Norwich Millennium Library	The Forum, Millennium Plain, Norwich, NR2 1AW	<b>Mon-Fri:</b> 10:00am-7:00pm <b>Sat:</b> 9:00am-5:00pm
Norwich City Council North Walsham Library	St Peters Street, Norwich, NR2 1NH New Rd, North Walsham, NR28 9DE	<b>Mon-Fri:</b> 8:45am-5:00pm <b>Mon and Thurs:</b> 9:30am-7:30pm <b>Tues and Fri:</b> 9:30am-5:00pm <b>Wed and Sat:</b> 9:30am-1:00pm
North Norfolk District Council	Council Offices, Holt Road, Cromer, NR27 9EN	<b>Mon, Tues and Thurs:</b> 8:30am-5:00pm <b>Wed:</b> 10:00am-5:00pm <b>Fri:</b> 8:30am-4:30pm
Broadland District Council	Thorpe Lodge, 1 Yarmouth Road, Norwich, NR7 0DU	<b>Mon-Fri:</b> 8:30am-5:00pm
Breckland District Council	Elizabeth House, Walpole Loke, Dereham, Norfolk, NR19 1EE	<b>Mon-Fri:</b> 9:00am-5:00pm
Great Yarmouth Borough Council	Town Hall, Hall Plain, Great Yarmouth, NR30 2QF	<b>Mon-Fri:</b> 9:00am-5:00pm

## Open Drop-in exhibitions

From the 30th of October, the Preliminary Environmental Information Report (PEIR)<sup>4</sup> and Consultation packs<sup>5</sup> comprising a Non Technical Summary of the PEIR and consultation booklet alongside consultation questionnaires will also be available at these locations, at our public drop in events, and available for download.

Venue details	Date/time
Dereham Sixth Form College, Crown Rd, <b>East Dereham</b> NR20 4AG	7 <sup>th</sup> Nov 1pm-7pm
The Bircham Centre, Market Place, <b>Reepham</b> , NR10 4JJ	8 <sup>th</sup> Nov 1pm-7pm
Aylsham Town Hall, Town Hall, Market Place, <b>Aylsham</b> , Norwich NR11 6EL	9 <sup>th</sup> Nov 1pm-7pm
Necton Rural Community Centre, 13 Tun's Road, <b>Necton</b> , Swaffham, PE37 8EH	10 <sup>th</sup> Nov 1pm-7pm
The Wenn Evans Centre, Blacksmiths Ln, <b>Happisburgh</b> , Norwich NR12 0QY	11 <sup>th</sup> Nov 11am-5.30pm
University Technical College Norfolk, Oldhall Rd, <b>Norwich</b> NR4 6ES	14 <sup>th</sup> Nov 2pm-7pm
East Coast College, Great Yarmouth Campus, Suffolk Road, <b>Great Yarmouth</b> , NR31 0ED	15 <sup>th</sup> Nov 1pm-7pm
North Walsham Community Centre, New Road, <b>North Walsham</b> , Norfolk, NR28 9DE	16 <sup>th</sup> Nov 1pm-7pm

### Respond to the consultation

 complete a questionnaire online at: [vattenfall.co.uk/norfolkvanguard](http://vattenfall.co.uk/norfolkvanguard)

 or post a hard copy to: **Norfolk Vanguard, The Union Building, 51-59 Rose Lane, Norwich, Norfolk, NR1 1BY**

 [info@norfolkvanguard.co.uk](mailto:info@norfolkvanguard.co.uk)

 **01603 567995**

The deadline for responses is **midnight, 11th December, 2017**

### Contact details

**Community Enquiries:** Sue Falch-Lovesey – [susan.falch-lovesey@vattenfall.com](mailto:susan.falch-lovesey@vattenfall.com)

**Landowner Enquiries:** Bob McCarthy – [vattenfallinnorfolk@consentsolutions.com](mailto:vattenfallinnorfolk@consentsolutions.com)

**Maritime Enquiries:** Jonathan Keer – [jonathan@brownmay.com](mailto:jonathan@brownmay.com)

 @VattenfallUK

<sup>4</sup> Hard reference copy available at North Walsham Library and Dereham Library. Digital copies available elsewhere. <sup>5</sup> Digital and hard reference copies available at every venue.