

Norfolk Vanguard Offshore Wind Farm

Consultation Report

Appendix 25.16 Slide Pack Examples

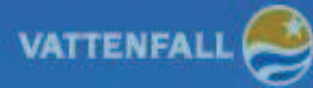
Applicant: Norfolk Vanguard Limited
Document Reference: 5.1
Pursuant to APFP Regulation: 5(2)(q)

Date: June 2018
Revision: Version 1
Author: BECG

Photo: Kentish Flats Offshore Wind Farm



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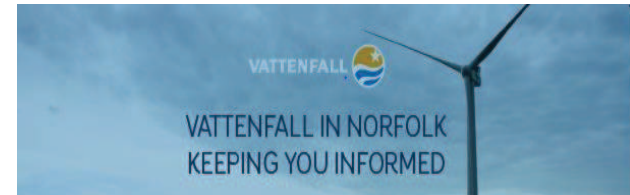
NORFOLK VANGUARD OFFSHORE WIND FARM

Susan Falch-Lovesey
Reepham Town Team

13th November 2017

AGENDA

- 1) My role and Vattenfall background
- 2) Vattenfall in Norfolk
- 3) Project Description
- 4) Consultation Process
- 5) Note about innovation
- 6) Opportunities and sponsorship
- 7) Skills, Jobs and training
- 8) Timeline and Boreas

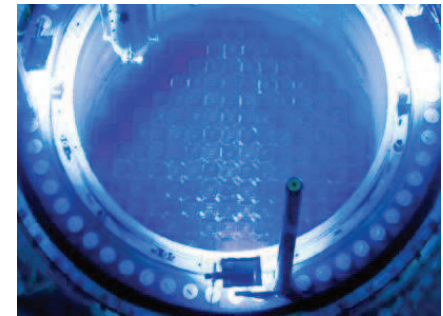


MY ROLE – LOCAL LIAISON OFFICER

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WE POWER CLIMATE SMARTER LIVING



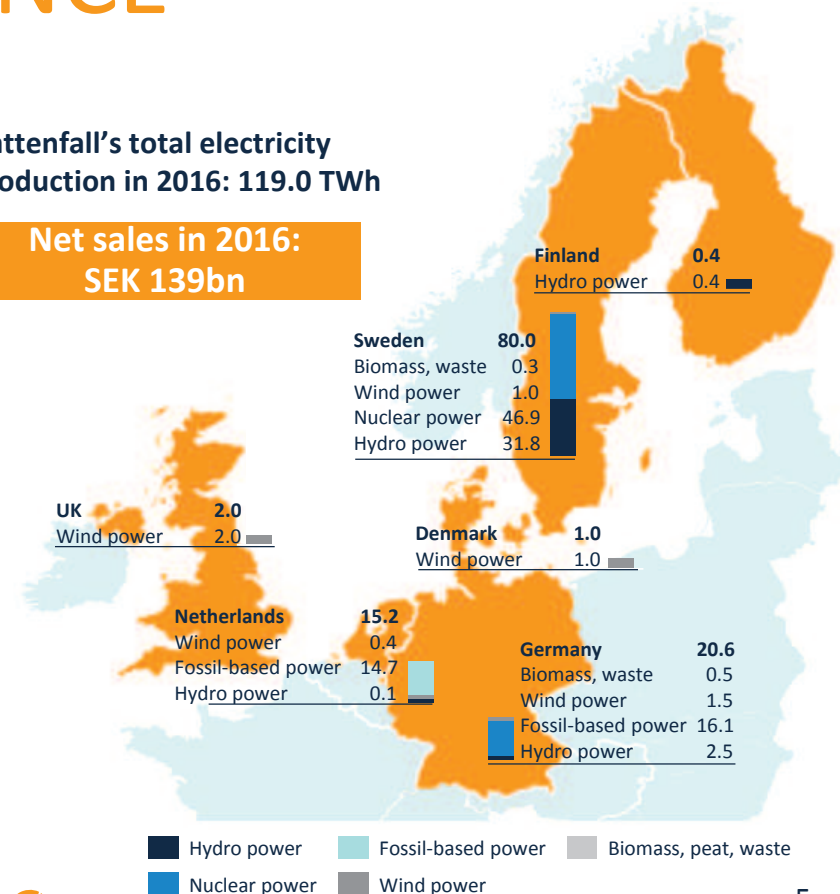
We will help power
our customers to live
free from fossil fuels
within one generation

VATTENFALL AT A GLANCE

- 100% owned by the Swedish state
- One of Europe's largest producers of electricity, heat, gas, energy services
- Main markets are Sweden, Germany, Netherlands, UK, Denmark and Finland
- 20,000 employees (but under 250 in UK and growing... I supply)

Vattenfall's total electricity production in 2016: 119.0 TWh

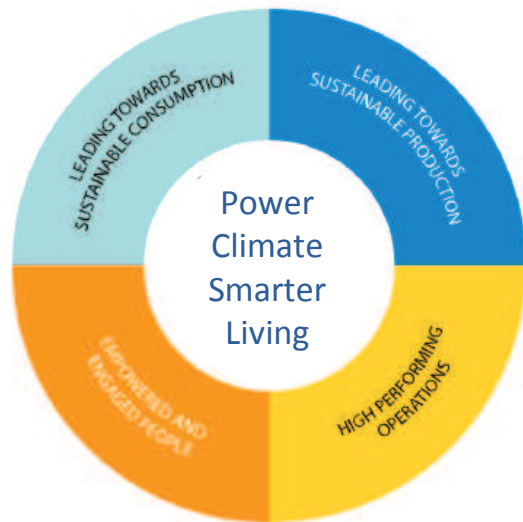
Net sales in 2016:
SEK 139bn



VATTENFALL'S BUSINESS LANDSCAPE

Providing reliable, convenient and innovative energy solutions that customers need.

Our strategic focus areas



Production

Energy Services and Microgeneration




District heating

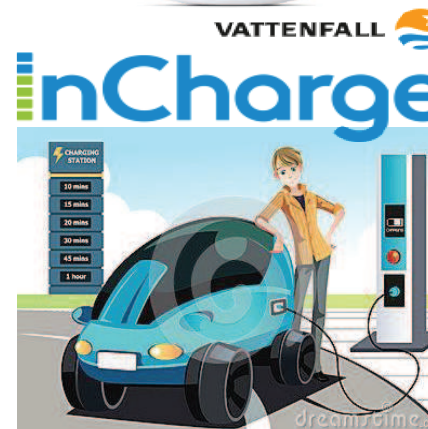
Electricity distribution

Industry Partnerships



VATTENFALL'S SOLUTIONS PORTFOLIO

	 Germany	 Netherlands	 Sweden
E-mobility	Car charging solutions for home, business and cities with differentiated services inCharge network across Germany, Netherlands, Sweden		
Decentral Solutions	<ul style="list-style-type: none"> Solar PV plus battery storage partnership Heat pumps 	<ul style="list-style-type: none"> Solar PV buy & lease Ventilation heat pump High-efficiency boilers (Feenstra) 	<ul style="list-style-type: none"> Heat pumps Solar PV Geothermal
Smart Home	<ul style="list-style-type: none"> Vattenfall Smart Home LG Home Energy management Smart home solutions offerings 	<ul style="list-style-type: none"> Smart meter insights and alerts Smart thermostats, incl. data insight and alerts 	<ul style="list-style-type: none"> Smart service concepts Smart solutions combining Smart Temp, Energywatch and Smart Plugs
2nd sales platforms	<ul style="list-style-type: none"> Enpure 	<ul style="list-style-type: none"> Powerpeers 	<ul style="list-style-type: none"> Alltid



VATTENFALL'S E-MOBILITY VISION

We exist to make charging of electric vehicles in Europe extremely easy, affordable and based on 100% renewable electricity...allowing all cars to be electrified by 2030

B2C Customer / End user perspective:

We promise

- Easy & accessible charging, at home, at work all around Europe
- Excellent service, available and reliable
- Zero-emission driving (renewables electric only)

We offer

- Charging solutions at home, work and at your destination via a Europe-wide network
- Large network of InCharge Card/tag/app & access to other networks
- Charge when cheapest (time of use/load balancing)
- (In our B2C sales markets:) Combine with electricity contract at home and/or your Home Energy System (solar/storage)



VATTENFALL IN NORFOLK



THE PEIR – A MILESTONE

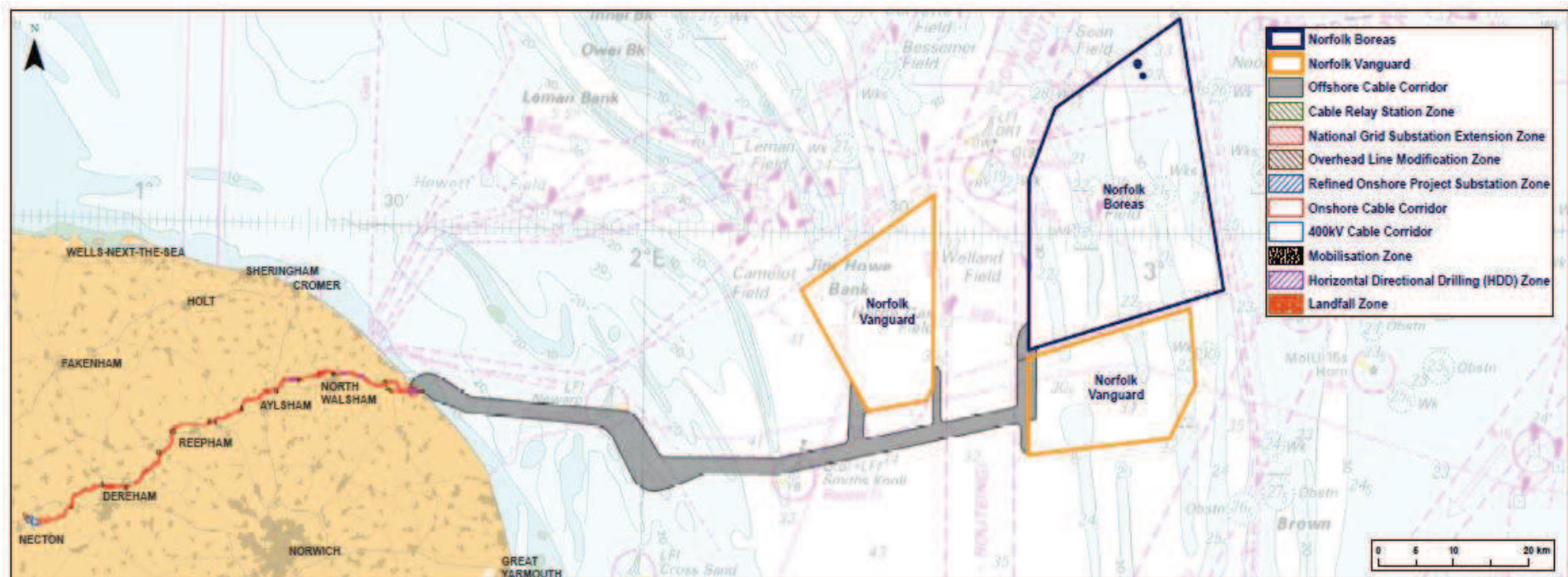
The Preliminary Environmental Information Report has involved:

- **100** highly qualified and experienced scientists and specialist professionals
- **20** local and national statutory bodies consulted over 18 months
- **24** exhibitions attended by **2500** people +
- **33** draft management plans that will be submitted with the DCO (addressing how we will manage construction and operation. Will be worked on in detail, in collaboration, post consent and signed off by relevant statutory bodies – the planning conditions)

Delivering to a robust, regulated and scrutinised process, but open, reflecting where we are in process (developmental and conceptual). If consent is granted – more resources are investment in detailed design and meeting planning constraints

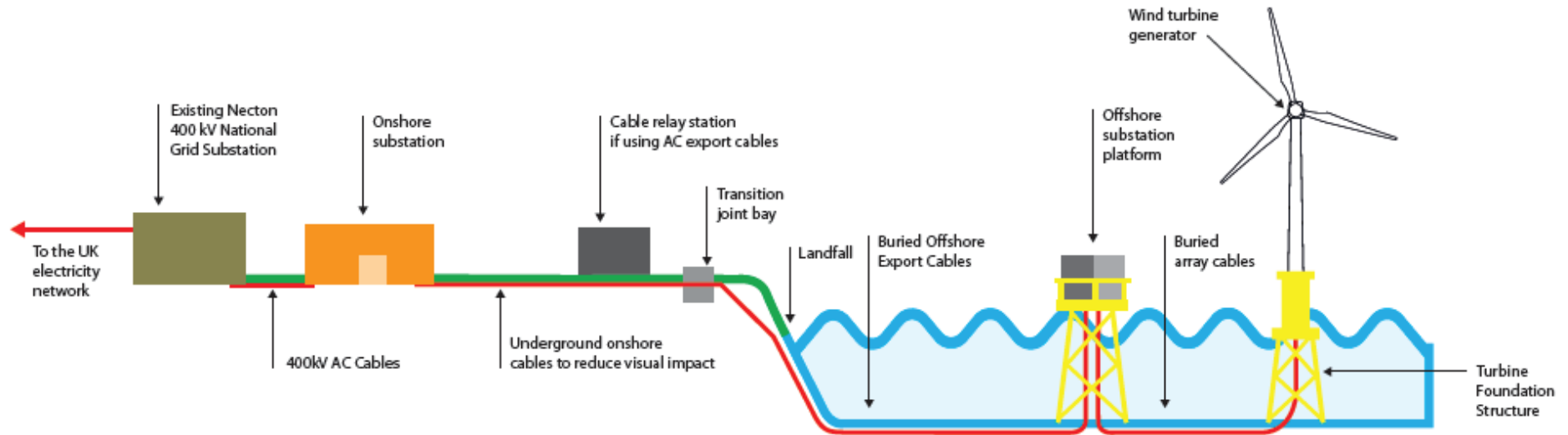
STATUTORY CONSULTATION

What we consulted on:

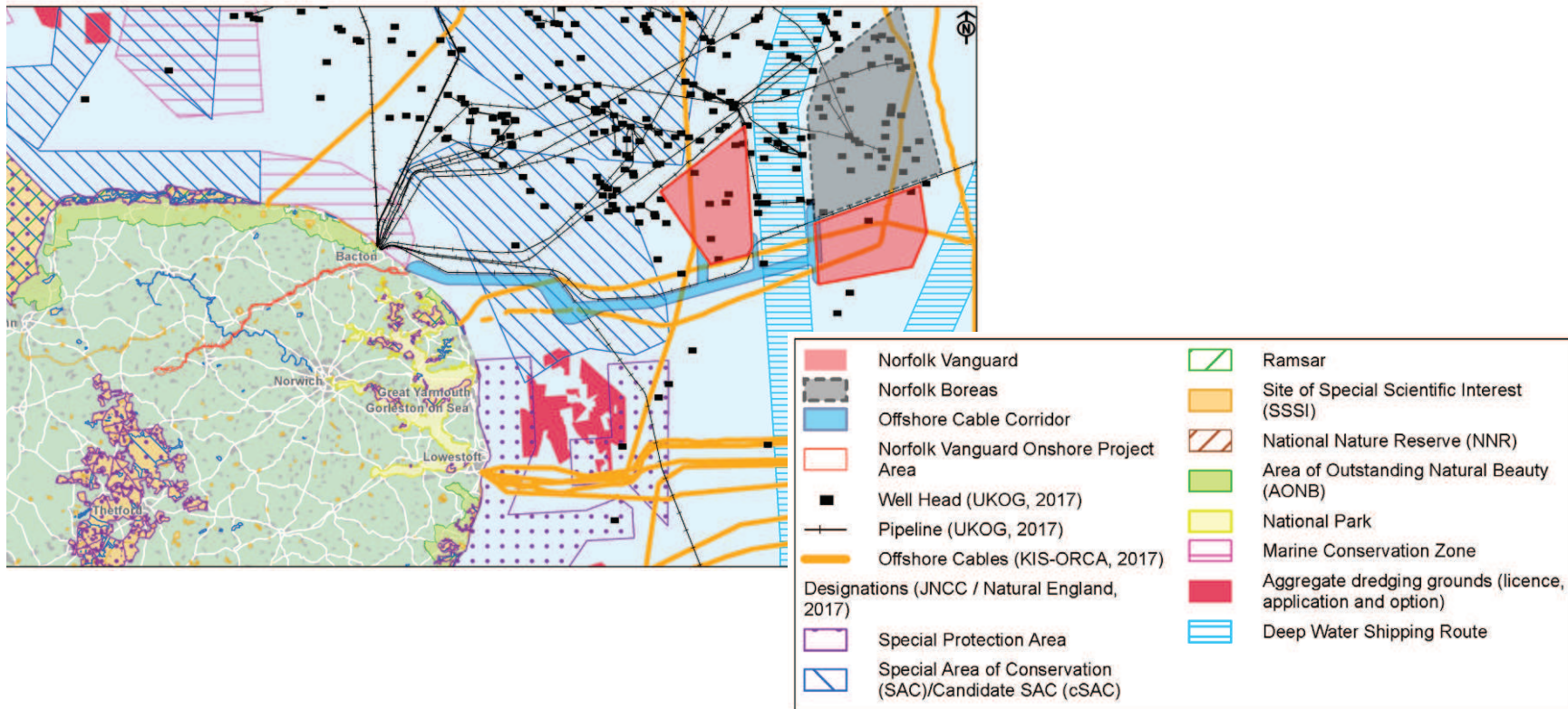


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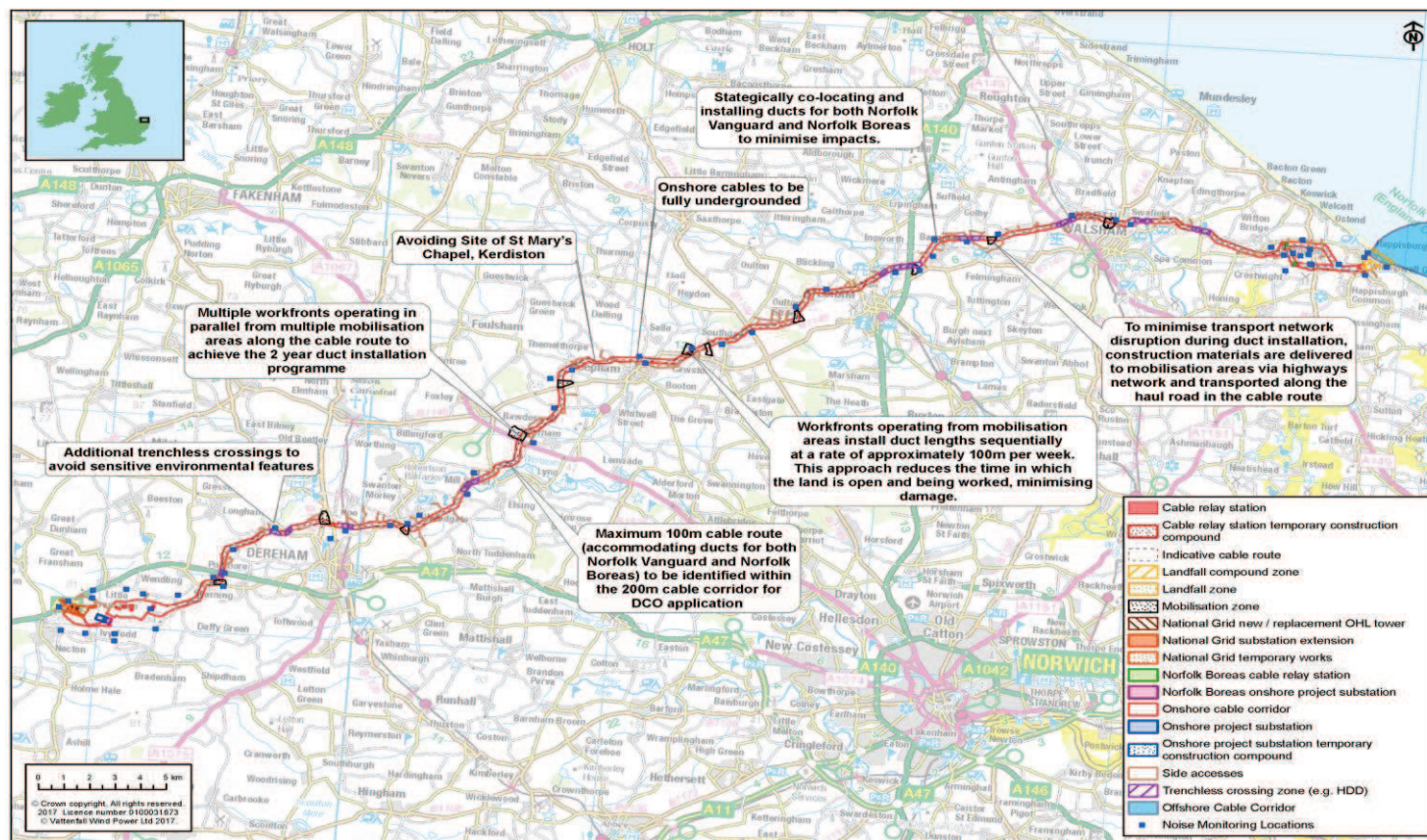
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OFFSHORE CONSTRAINTS MAP



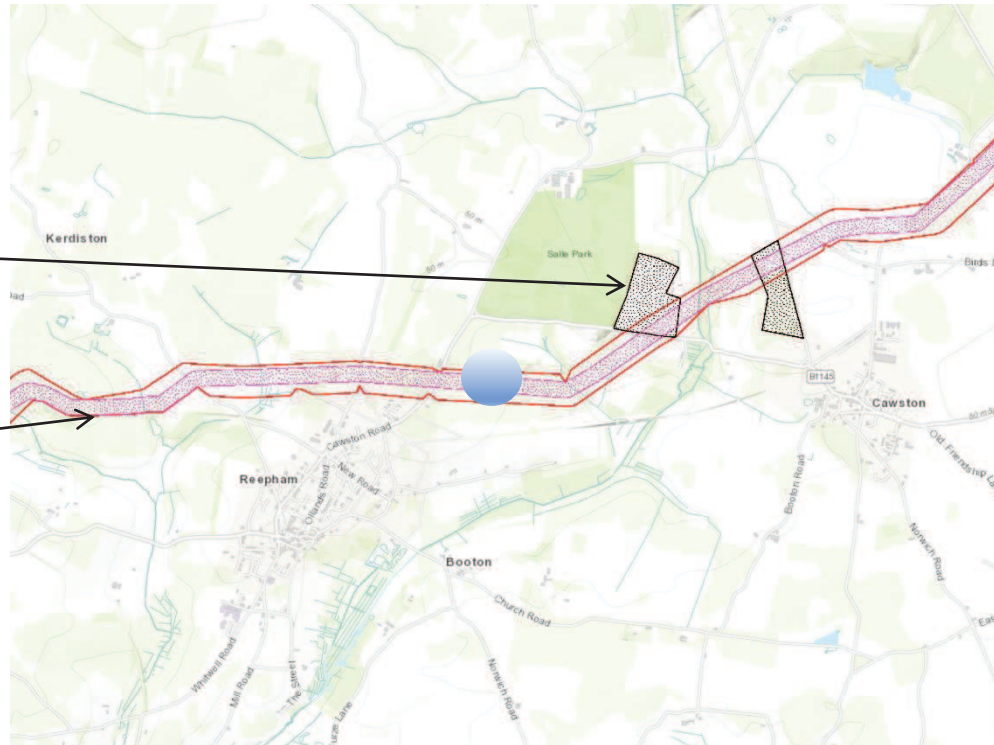
CABLE ROUTE UPDATE



Ref:57960-1AG-700-064-01#EAZ EGEL OnCapCo v21.170829am 27760 EAZ EGEL OnCapCo v23.170829am 25835

REEPHAM UPDATE

- Mobilisation zone option
- Underground Cable Corridor



EIA PROCESS – WHAT WE DO

- assess a project's likely environmental, social and economic effects
- consider mitigation measures to reduce the level of adverse effects
- assess any remaining effects with these mitigation measures applied
- identify opportunities



PRELIMINARY ENVIRONMENTAL INFORMATION REPORT

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Scheme Wide Aspects

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Offshore

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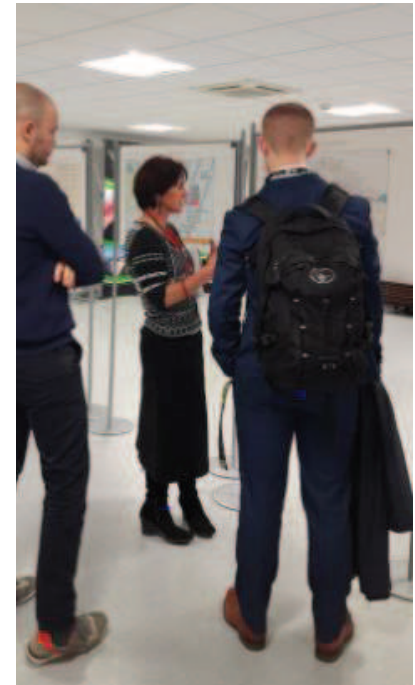


REACHING NEW AUDIENCES

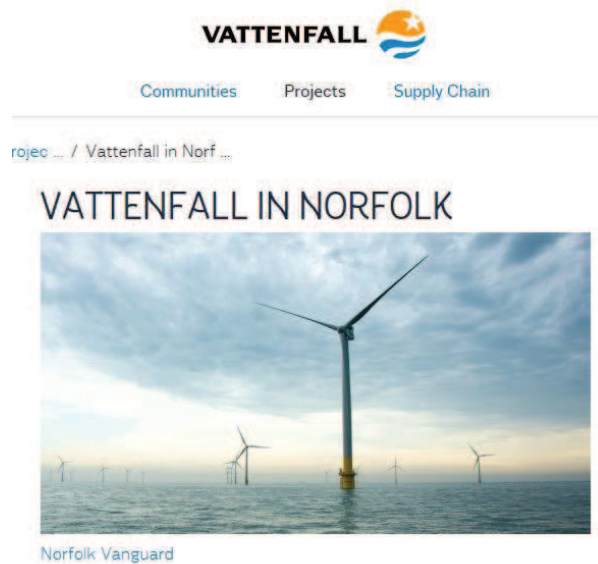
Age	Norfolk population mid 2016	2 nd drop (Feedback forms) (March'17)	Difference Norfolk-Drop in 2	Target for 3 rd drop in (Nov'17) ?	Strategy to develop targeted engagement
Total	892,900 (100%)	268 (100%)	0	0	NB. Underrepresented groups in each category = Priority
Under 18 (Children)	169,300 (19%)	(1%)	-18%	19%	Strategic programme to enable balanced, informed involvement across full project area (target 6 th Formers)
Working age (18-64)	510,600 (57%)	(52%)	-5%	57%	Link with Business and Chamber/ groups (Out of Work & ex-servicemen?)
Older people (65+)	213,000 (24%)	(38%)	+14%	24%	There may be underrepresented groups within this category – more vulnerable/older. Focus using specific sponsorship opps.
Unspecified	0 (0%)	79 (9%)	thus +/- 9% error	(9%)	



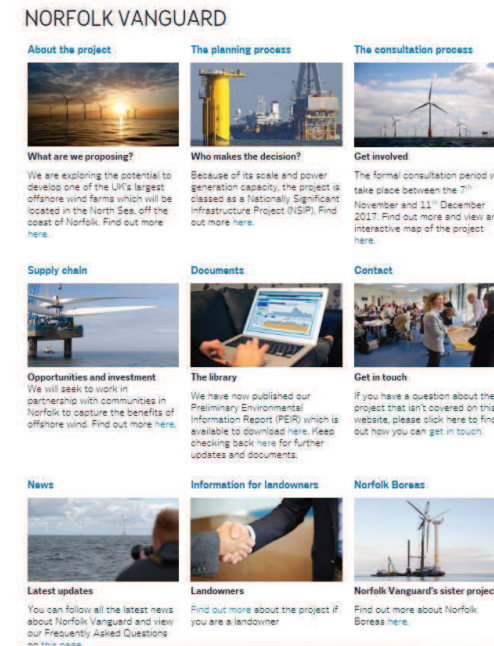
ENABLING YOUNG PEOPLE'S VOICE



CONSULTATION VIA THE WEBSITE



www.vattenfall.co.uk/vattenfallinnorfolk



WHERE TO FIND THE KEY INFORMATION

THE CONSULTATION PROCESS

Get involved

Vattenfall is committed to honest, open and effective engagement with the communities in which it operates.



We have been undertaking a programme of non-statutory (informal) consultation which has assisted in informing the development of the proposals up to this point.

We are undertaking a period of formal statutory consultation 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 the proposals.

DOCUMENTS

As the Norfolk Vanguard project develops we will update this page so that you can view or download various documents such as newsletters, factsheets and consultation material. Please click on the links below.



Norfolk Vanguard Preliminary Environmental Information Report - October 2017

We have now published the Preliminary Environmental Information Report (PEIR) for Norfolk Vanguard and the full set of documents can be found at the link directly below:

- [PEIR Documents Page](#)
- [PDF](#) Norfolk Vanguard Consultation Summary Document
- [PDF](#) Norfolk Vanguard Online Feedback Questionnaire

A NOTE ABOUT INNOVATION

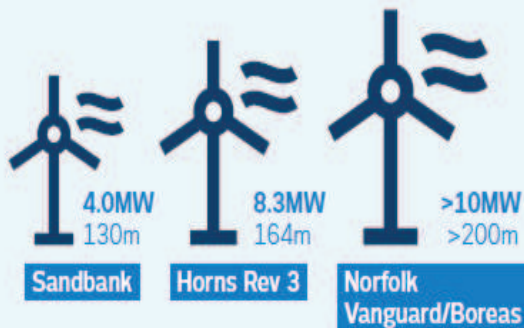
The wind industry is a truly international industry that relies on a high degree of collaboration between organisations and individuals. Things are evolving quickly, spurred on by the digital revolution and big data, but also technical innovation.



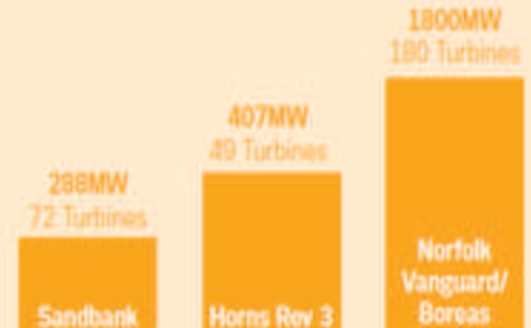
The European offshore deployment centre is a pioneering wind test and demo facility developed by Vattenfall. Visit: <https://corporate.vattenfall.co.uk/projects/wind-energy-projects/european-offshore-wind-deployment-centre/>

The cost of offshore wind is coming down – drivers include:

Larger turbines



Larger projects



Magnus Hall – CEO, Vattenfall

// We want to provide energy solutions for an environmentally healthy society and a better future for coming generations //

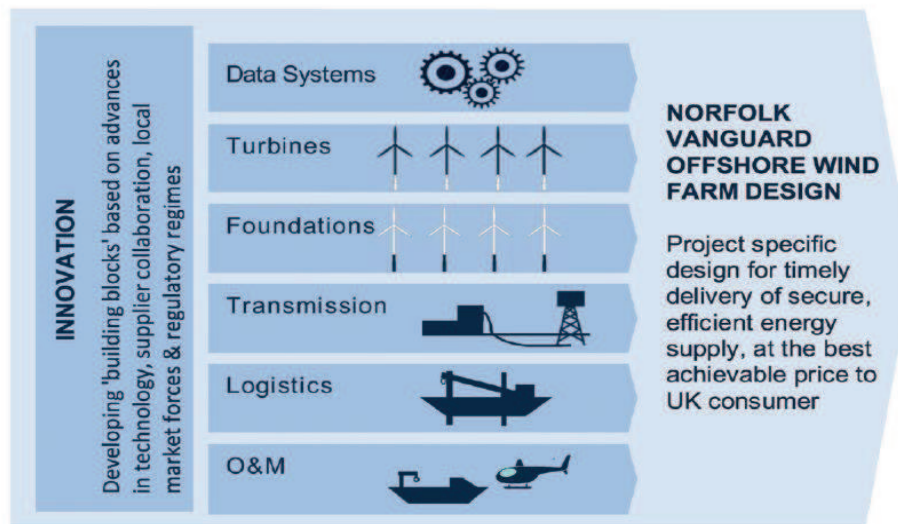
Clustering Assets



INNOVATION – NORFOLK VANGUARD

NORFOLK VANGUARD PROJECT DEVELOPMENT

Modelling, analyses, consultation & collaboration combine to identify the most appropriate building blocks for best-in-class design, appropriate to local constraints and opportunities.



Offshore wind price dropped by 50%

WHY?

- Innovation
- Competition
- Supply chain development

LATEST NEWS - OPPORTUNITIES



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



East Of England Energy Group (EEEEGR) 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



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 and corporate.vattenfall.com/about-vattenfall/strategy-and-objectives/

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

NEW OPPORTUNITIES



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/



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

- Local supply chain and business opportunities are high on our agenda (Peel Ports - Gt . Yarmouth, NWS, CEFAS, Norwich Drilling Firm)

SKILLS AND JOBS FOR THE FUTURE 1

Career opportunities in offshore wind development, construction and operation are highly varied and include;

- Project managers
- Graduate project civil engineers
- HSE administrators
- Data and analytics specialists
- Electrical package managers
- Wind turbine service technicians
- Electrical engineers
- Contracts managers
- Media and communications officers
- Commercial managers, lawyers etc.



<http://bit.ly/vattenfallcareers>



SKILLS AND JOBS FOR THE FUTURE 2

When you add in the supply chain businesses that contribute to the development of a wind farm, the opportunities are even more diverse;

- ecologists
- archaeologists
- land owner liaison officers
- onshore civil engineers & contractors
- wind turbine designer/manufacturer
- service vessel crew and skippers
- computer graphics designer
- accommodation providers.....



<http://bit.ly/vfarchaeology>



STUDENT & GRADUATE OPPORTUNITIES

Different roles require different skills, qualifications and experience. There are numerous routes into these roles and there are academic, technical and practical jobs.

Fancy an insight into Vattenfall's Management? Meet Andreas Ragnell and Magnus Hall (CEO);



<http://bit.ly/vfintraineeprog>



Vattenfall International Trainee Programme offers enthusiastic graduates a broad experience across the countries it operates in.

In addition, there are internships, thesis project & apprenticeship opportunities;



<http://bit.ly/vftrainees>

I CAN BE A..... (WEBSITE)

www.icanbea.org.uk
(and search for [Vattenfall](#))



TIMELINE (VANGUARD)

What's happening now?

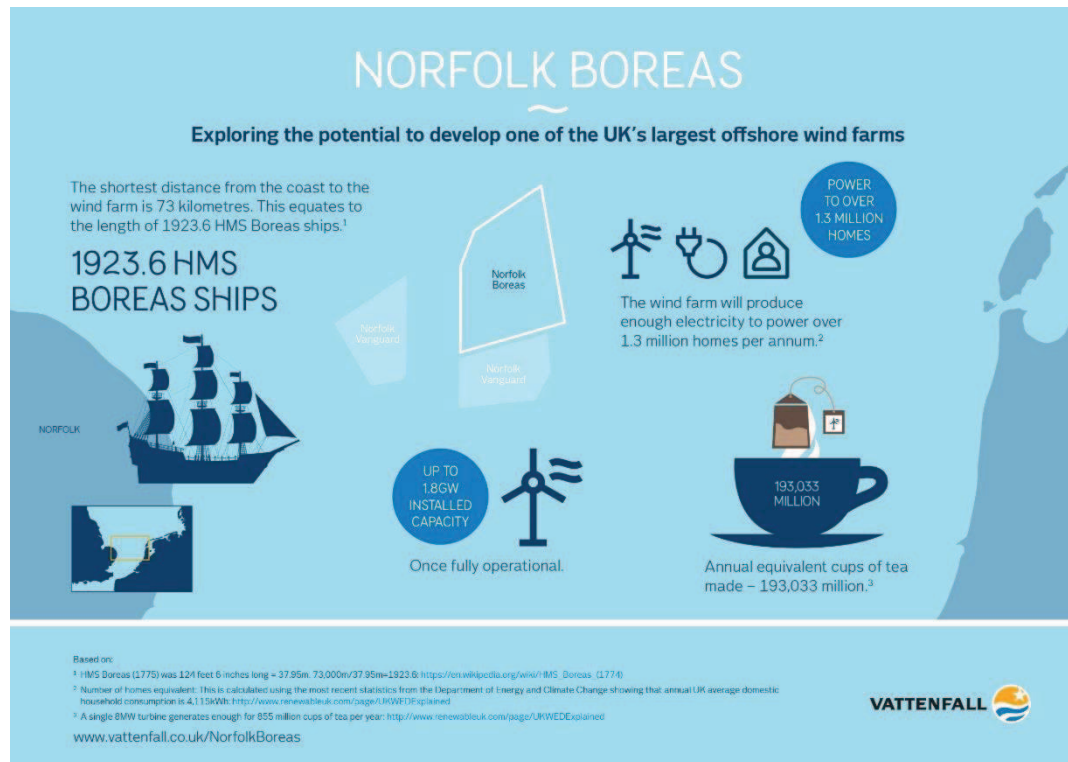
In late October, we will publish our Preliminary Environmental Information Report (PEIR). This shows the results of all our data gathering and assessment work so far.

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 timeline²



NORFOLK BOREAS



Project Status:

- **Separate Development Consent Order (DCO)**
- **Early stakeholder engagement** through Spring '17
- **Scoping submission** May 2017
- **DCO submission** Q2 2019 [1 year behind Norfolk Vanguard]



SUE FALCH-LOVESEY

LOCAL LIAISON OFFICER AND SKILLS AND TRAINING CHAMPION

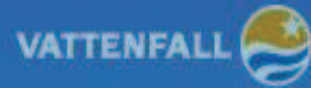
SUSAN.FALCH-LOVESEY@VATTENFALL.COM

 [@VATTENFALLUK](https://twitter.com/VATTENFALLUK)

WWW.VATTENFALL.CO.UK/NORFOLKVANGUARD

VATTENFALL 





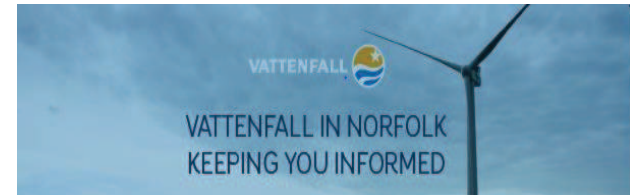
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Susan Falch-Lovesey
Coastal Forum Meeting

5th November 2017

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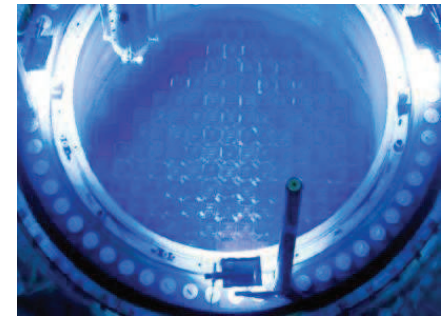


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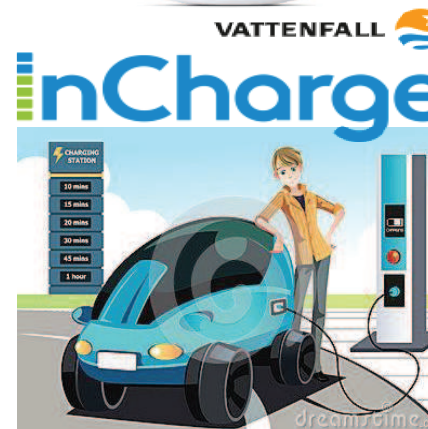
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VATTENFALL IN NORFOLK



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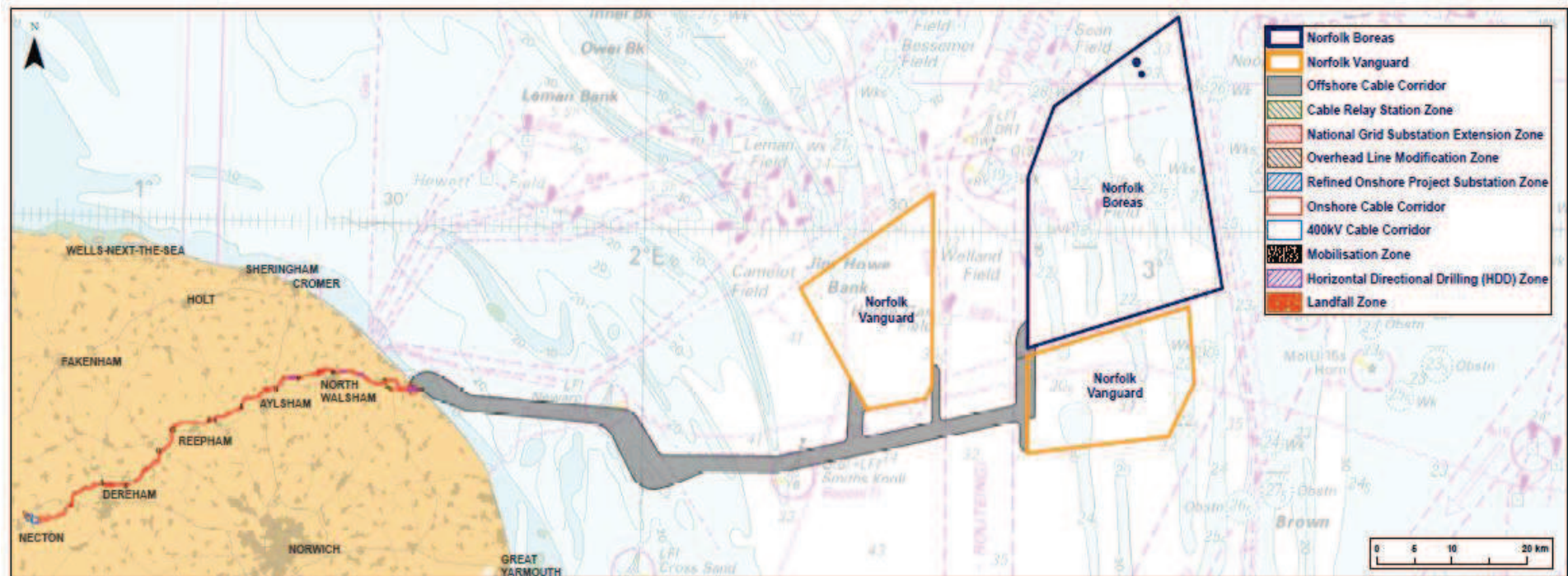
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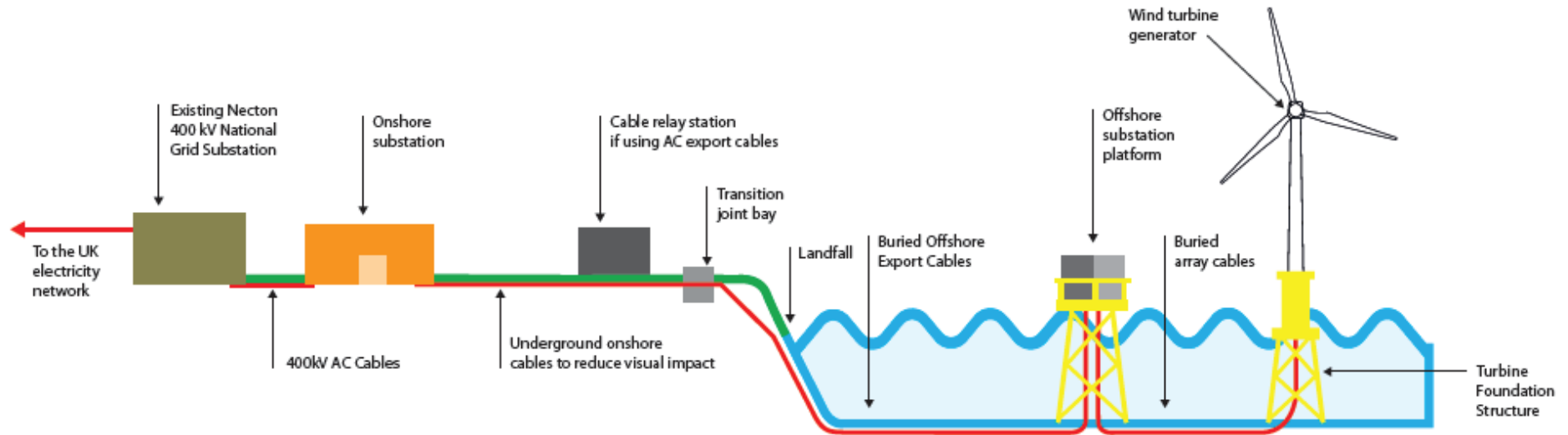
STATUTORY CONSULTATION

What we're consulting on:

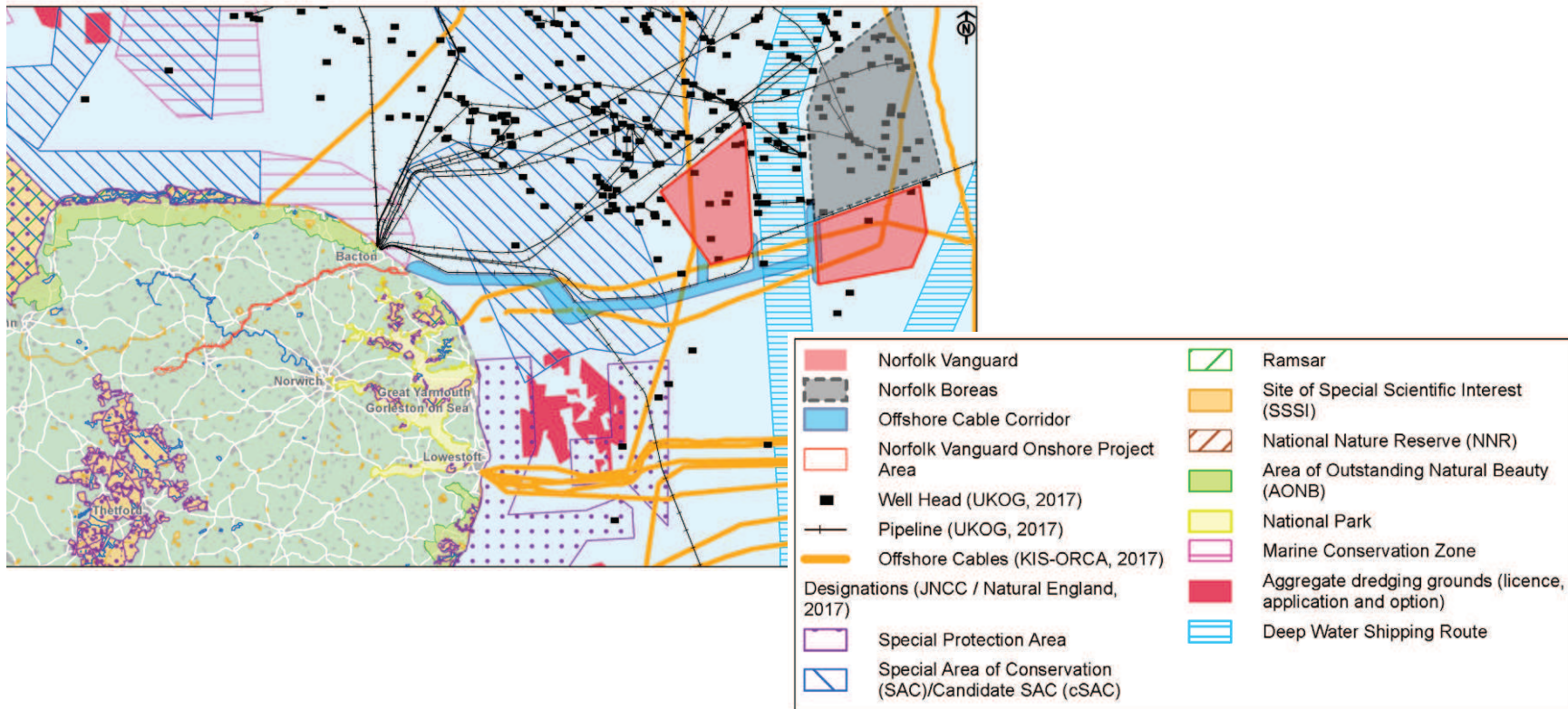


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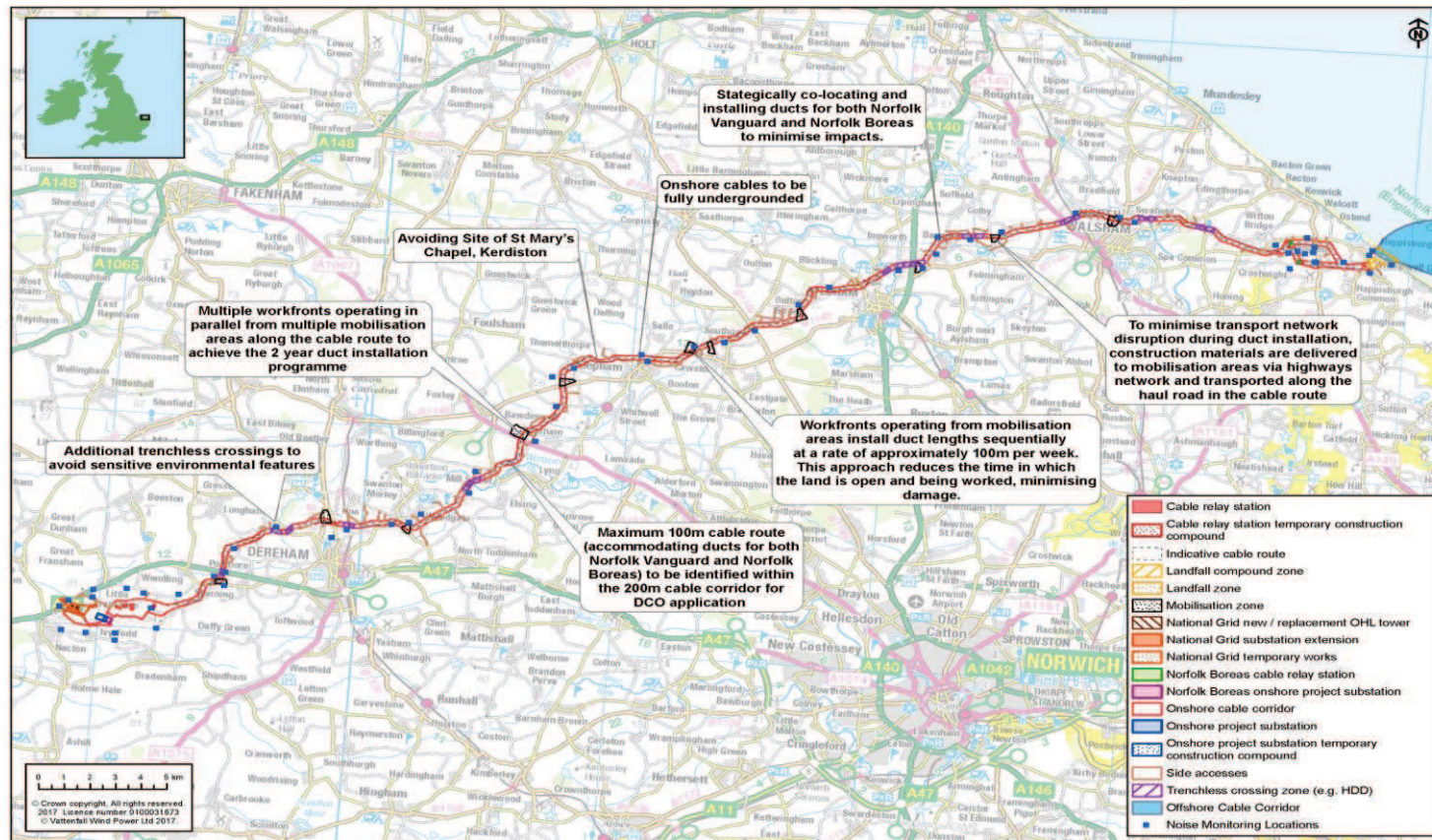
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OFFSHORE CONSTRAINTS MAP



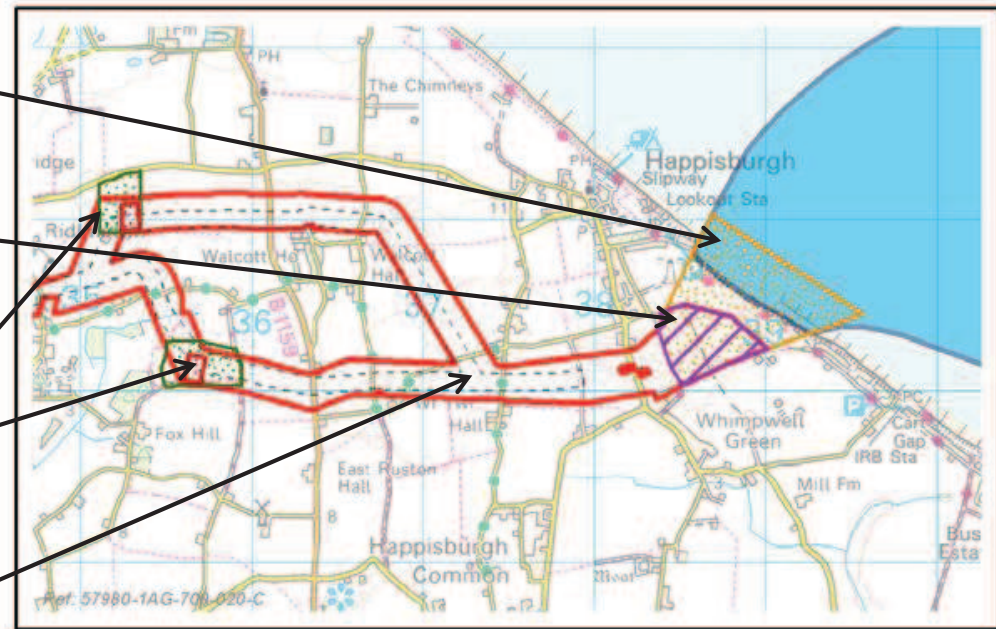
CABLE ROUTE UPDATE



Ref: 57808-1AG-700-064-017-EAZ_E0EL_0RD-0C-02_v21_170929m_27766_EAZ_E0EL_0RD-0C-02_v21_170929m_25831

LANDFALL AND CRS UPDATE

- Landfall zone
- Trenchless crossing zone
- Cable relay station search zones (only with AC cable option)
- Cable route options to CRS search zones



EIA PROCESS – WHAT WE DO

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HAVE YOUR SAY:



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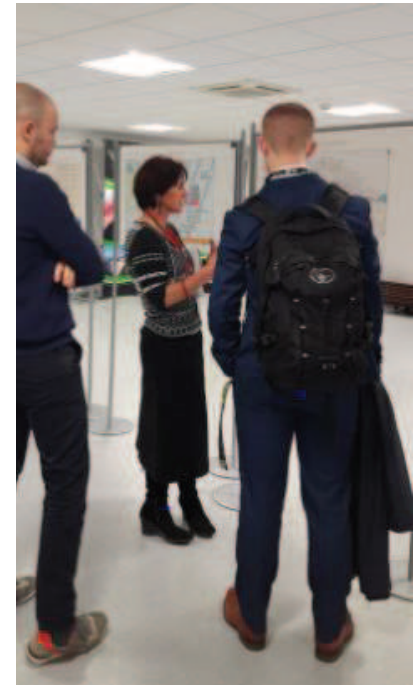


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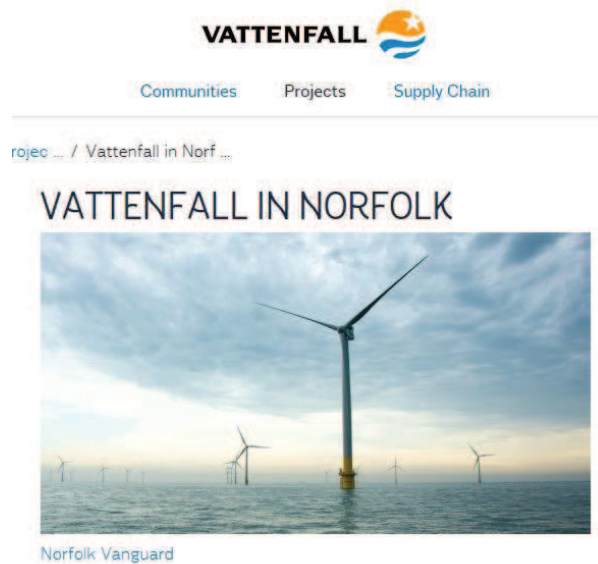
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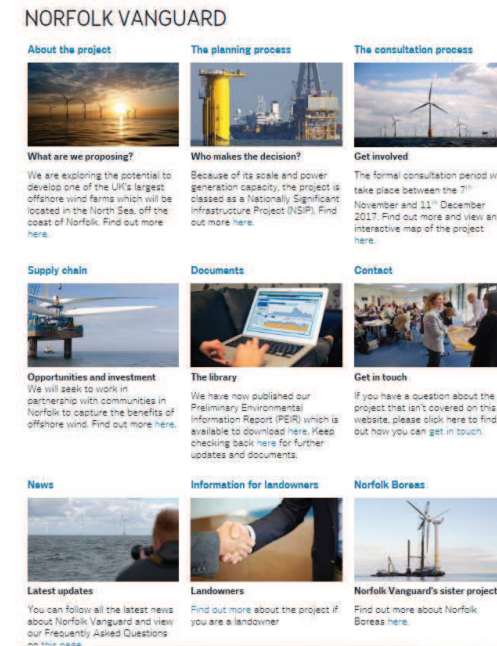
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Norfolk Vanguard Preliminary Environmental Information Report - October 2017

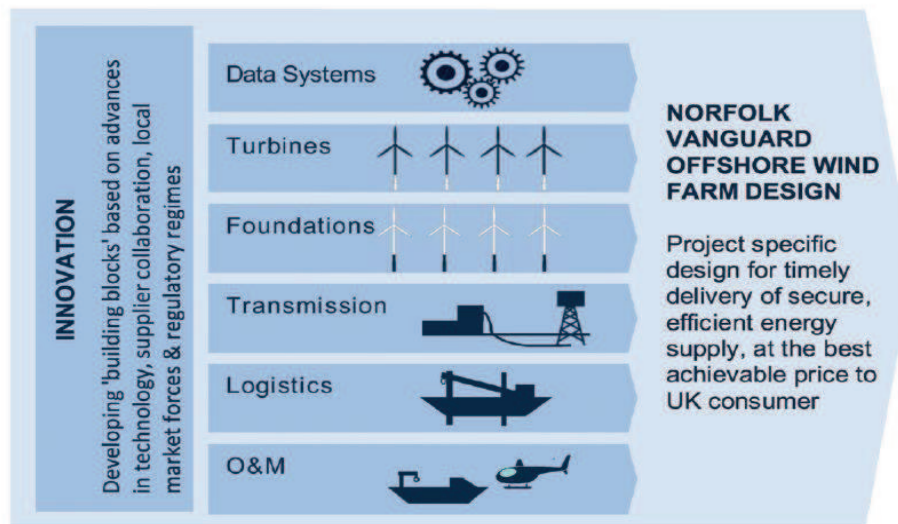
We have now published the Preliminary Environmental Information Report (PEIR) for Norfolk Vanguard and the full set of documents can be found at the link directly below:

- [PEIR Documents Page](#)
- [PDF](#) Norfolk Vanguard Consultation Summary Document
- [PDF](#) Norfolk Vanguard Online Feedback Questionnaire

INNOVATION – NORFOLK VANGUARD

NORFOLK VANGUARD PROJECT DEVELOPMENT

Modelling, analyses, consultation & collaboration combine to identify the most appropriate building blocks for best-in-class design, appropriate to local constraints and opportunities.



Offshore wind price dropped by 50%

WHY?

- Innovation
- Competition
- Supply chain development

LATEST NEWS - OPPORTUNITIES



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



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



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 and corporate.vattenfall.com/about-vattenfall/strategy-and-objectives/

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

NEW OPPORTUNITIES



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/



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

- Local supply chain and business opportunities are high on our agenda (Peel Ports - Gt . Yarmouth, NWS, CEFAS, Norwich Drilling Firm)

SKILLS AND JOBS FOR THE FUTURE 1

Career opportunities in offshore wind development, construction and operation are highly varied and include;

- Project managers
- Graduate project civil engineers
- HSE administrators
- Data and analytics specialists
- Electrical package managers
- Wind turbine service technicians
- Electrical engineers
- Contracts managers
- Media and communications officers
- Commercial managers, lawyers etc.



<http://bit.ly/vattenfallcareers>



SKILLS AND JOBS FOR THE FUTURE 2

When you add in the supply chain businesses that contribute to the development of a wind farm, the opportunities are even more diverse;

- ecologists
- archaeologists
- land owner liaison officers
- onshore civil engineers & contractors
- wind turbine designer/manufacturer
- service vessel crew and skippers
- computer graphics designer
- accommodation providers.....



<http://bit.ly/vfarchaeology>



STUDENT & GRADUATE OPPORTUNITIES

Different roles require different skills, qualifications and experience. There are numerous routes into these roles and there are academic, technical and practical jobs.

Fancy an insight into Vattenfall's Management? Meet Andreas Ragnell and Magnus Hall (CEO);



<http://bit.ly/vfintraineeprog>



Vattenfall International Trainee Programme offers enthusiastic graduates a broad experience across the countries it operates in.

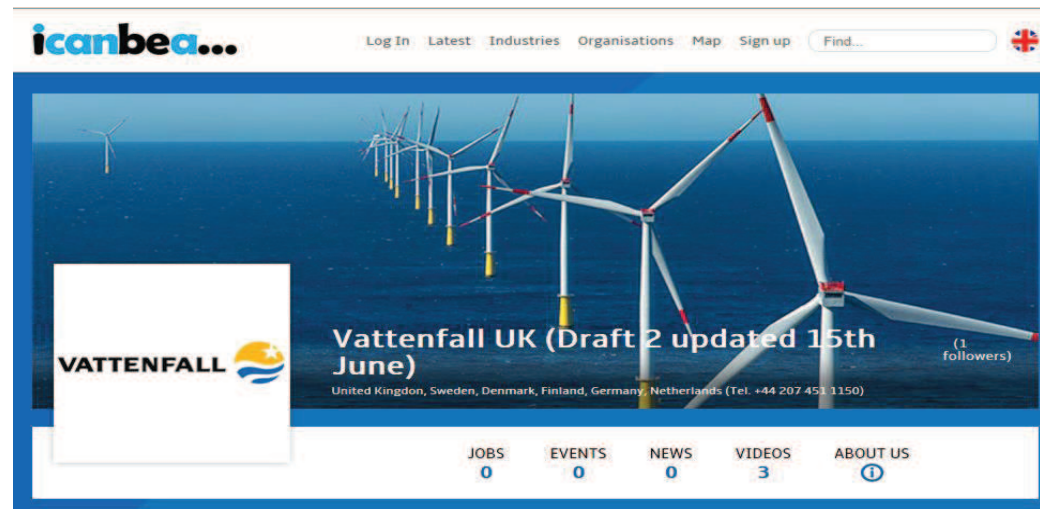
In addition, there are internships, thesis project & apprenticeship opportunities;



<http://bit.ly/vftrainees>

I CAN BE A..... (WEBSITE)

www.icanbea.org.uk
(and search for [Vattenfall](#))



TIMELINE (VANGUARD)

What's happening now?

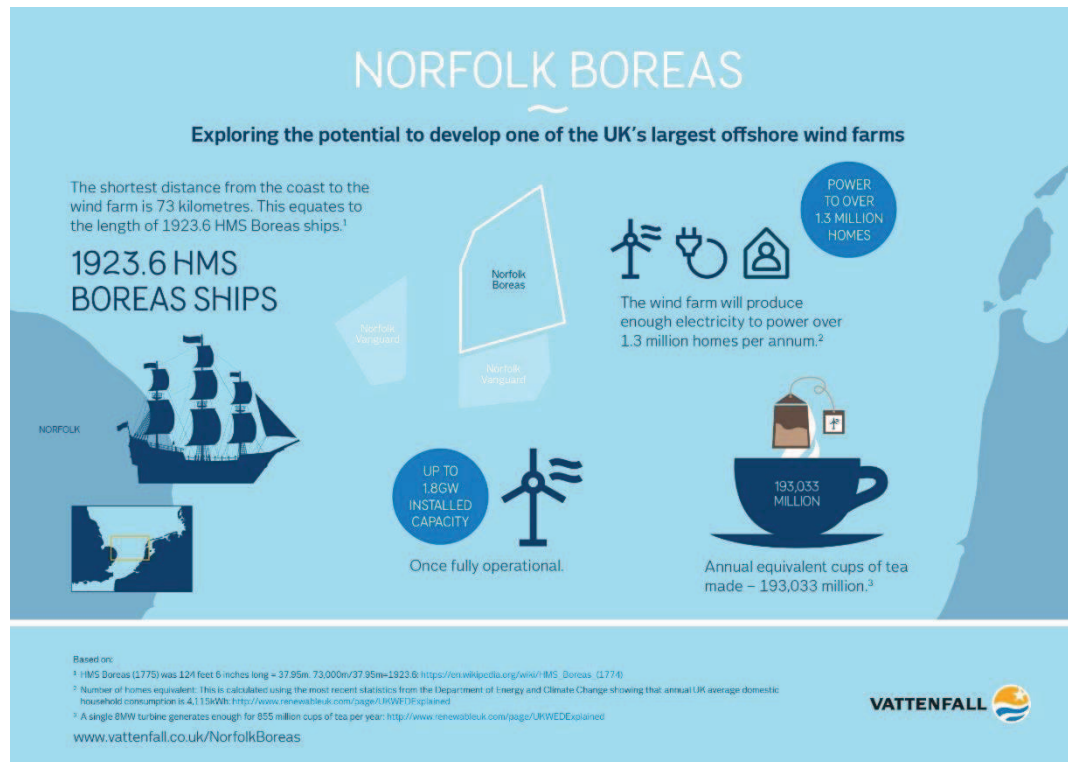
In late October, we will publish our Preliminary Environmental Information Report (PEIR). This shows the results of all our data gathering and assessment work so far.

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 timeline²



NORFOLK BOREAS



Project Status:

- **Separate Development Consent Order (DCO)**
- **Early stakeholder engagement** through Spring '17
- **Scoping submission** May 2017
- **DCO submission** Q2 2019 [1 year behind Norfolk Vanguard]



SUE FALCH-LOVESEY

LOCAL LIAISON OFFICER AND SKILLS AND TRAINING CHAMPION

SUSAN.FALCH-LOVESEY@VATTENFALL.COM

 [@VATTENFALLUK](https://twitter.com/VATTENFALLUK)

WWW.VATTENFALL.CO.UK/NORFOLKVANGUARD

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