

# Dogger Bank Teesside Projects Second Community Update

17 May 2013



- Introduction to Forewind
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- Converter Station Visual Impact
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- Environmental Surveys
- Stakeholder Engagement and Consultation
  - Community 1-2-1's
  - Final Statutory Consultation
  - Champions for Wind
- Next Steps
- Questions

# Key Forewind Contacts

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- Chris Nunn - Onshore Environmental Impact Assessment Manager
- Andy Guyton – Onshore Consent Manager
- Chris Gibbs – Project Developer
- Fabio Spinato – Electrical Systems Engineer

# Introduction to Forewind and the Dogger Bank Wind Farm

Chris Gibbs – Onshore Project Developer

17 May 2013

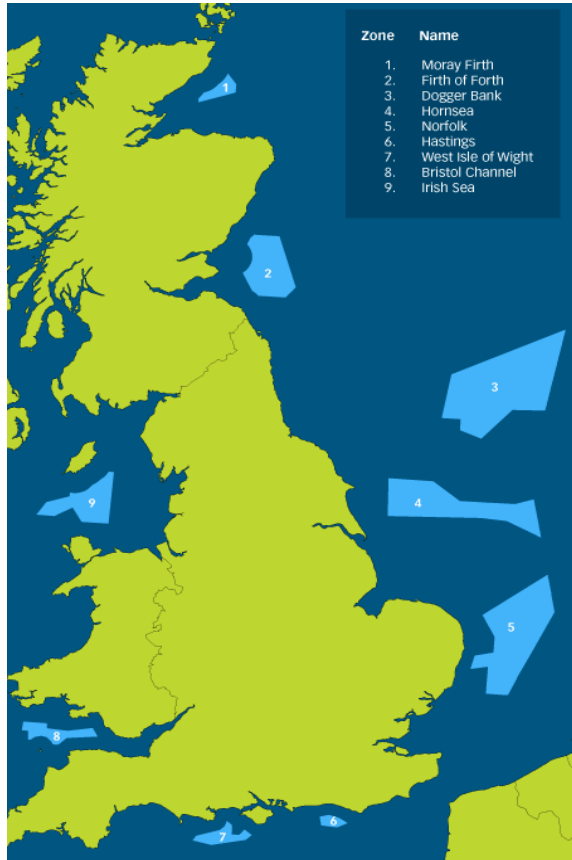


# Forewind – Who Are We?

- A consortium of four major energy companies



- Forewind's mission is to deliver development consents for safe, viable offshore wind capacity.



*Forewind is developing Zone 3, one of the development concessions offered by The Crown Estate as part of its Round 3 Offshore Wind programme.*

# UK Offshore Wind Map

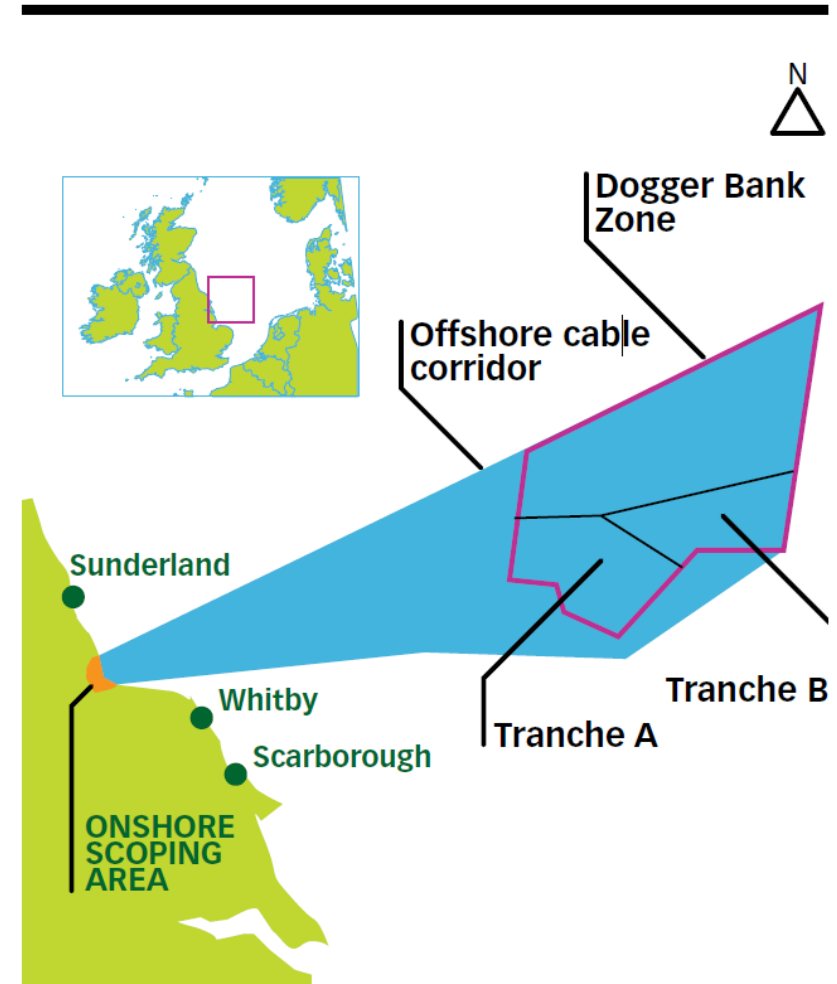


- Round One Sites Operational
- Round One Sites – Generating/Under Construction
- Round One Sites
- Scottish Wind Farms
- Round One & Two Sites
- Round Two Sites
- Potential Round 3 Development Zones



# Dogger Bank Key Facts

- Capacity: Agreed target 9 GW.
- Area: 8,660km<sup>2</sup> (3,350 sq. miles); equivalent to size of North Yorkshire.
- Distance: 125-290 km (80-180 miles) from shore.
- Depth: 18-63 m (60-210 ft); c.4 GW in <30m water depth, c.8 GW in <35m water depth; shallow compared with other zones.
- Wind: High wind speeds of >10 m/s average wind speed across the zone.
- History: A "dogger" was a type of Dutch fishing boat that commonly worked in the North Sea in the seventeenth century.

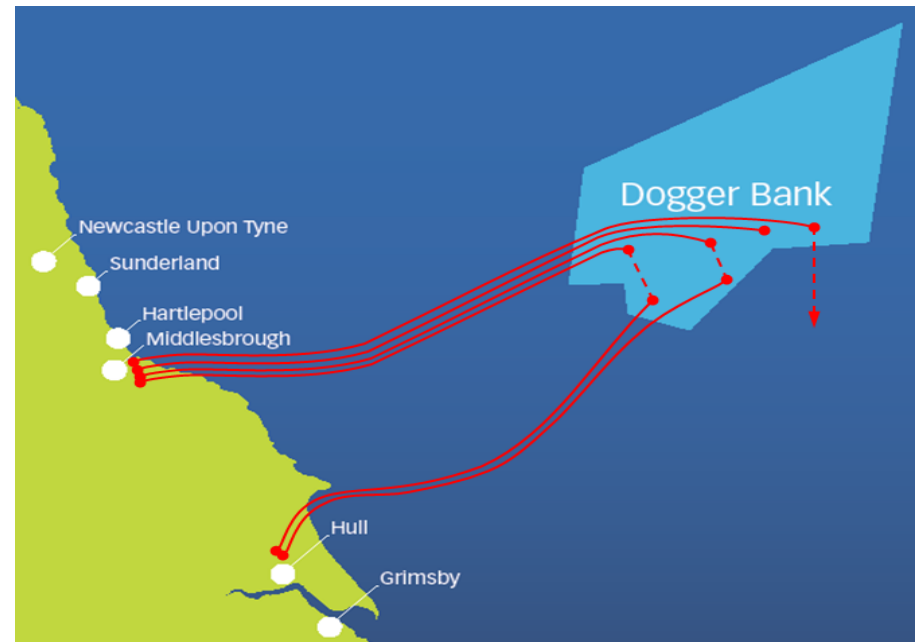


*Dogger Bank Teesside (As consulted on for Phase 1 of statutory consultation)*



- Develop the Dogger Bank Zone in four tranches (or four phases).
- Each tranche - up to three projects, each with a generating capacity of up to 1.2GW.
- Each project will require its own connection to the National Grid.
- 2 Projects connecting into existing Creyke Beck onshore substation near Cottingham in the East Riding of Yorkshire.
- 4 Projects connecting into Teesside, 2 connecting into existing Lackenby onshore substation

Connection point		Connection date
A – Creyke Beck	Yorkshire	Apr 2016
A – Lackenby	Teesside	Apr 2017
B – Lackenby	Teesside	Apr 2018
B – Creyke Beck	Yorkshire	Apr 2019
C – To be confirmed	Teesside	Apr 2019
D – To be confirmed	Teesside	Apr 2020



Forewind has secured grid connection points for 6 GW of capacity.

- **“Forewind to organise PEI1 consultation materials to be sent to Guisborough Library”**
  - Guisborough library received a copy of the documents and now receives copies of our newsletter when a new edition is published
- **Members of the previous community update highlighted a new Northumbrian Water sewer to go in around our landfall between Redcar and Marske-by-the-Sea.**
  - Forewind followed up on the advice and have now amended the onshore cable route to allow for Northumbrian Water’s planned infrastructure
- **Members of the previous community update requested information on electro-magnetic fields**
  - Forewind supplied a factsheet in the previous minutes from Energy Networks Association, at the web address [www.energynetworks.org/electricity/she/emfs.html](http://www.energynetworks.org/electricity/she/emfs.html)
  - Forewind are currently producing an additional advice note on EMF for High Voltage Direct Current that can be distributed when it is finalised

# Project Consents Split

Chris Gibbs – Onshore Project Developer

17 May 2013



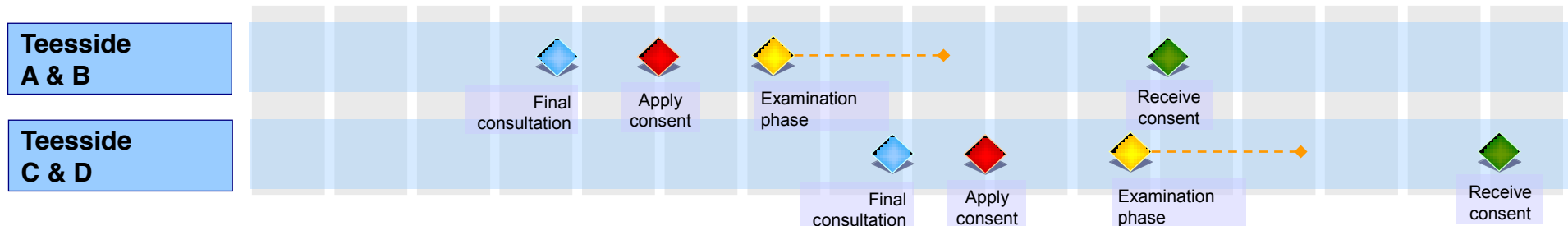
# Consenting timetable

- Each Dogger Bank project is a Nationally Significant Infrastructure Project (NSIP).
- Development Consent Order (DCO) applications include onshore and offshore aspects.
- Examined by The Planning Inspectorate.
- Determined by the relevant Secretary of State, currently Department of Energy & Climate Change (DECC).
- Stakeholder consultation, key element of development process.



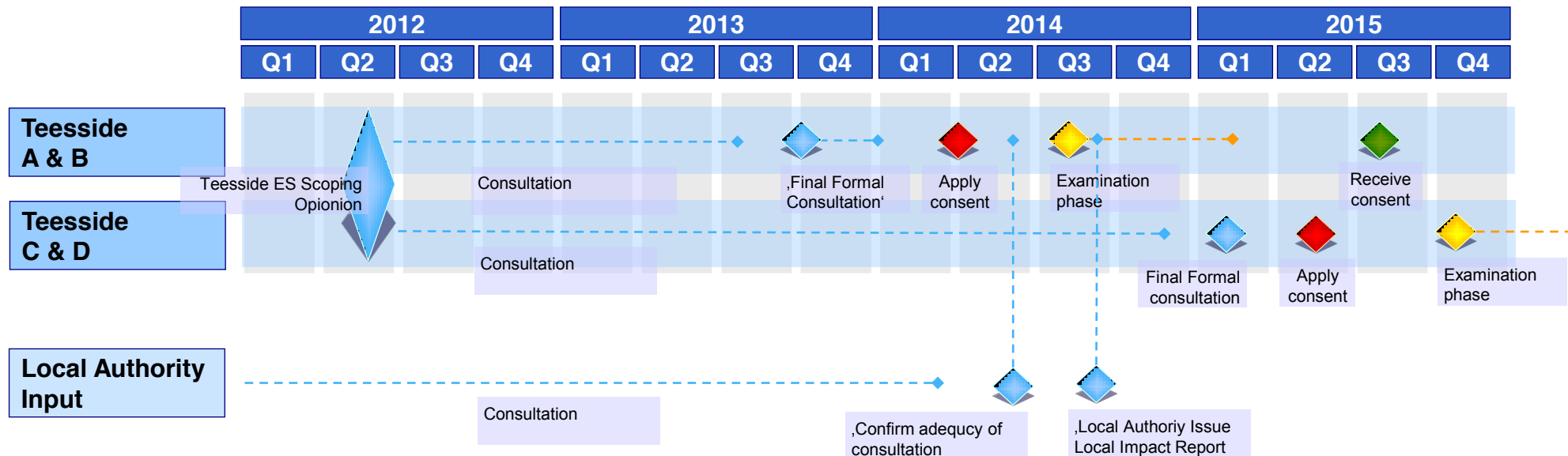
*Ed Davey, Secretary of State for Energy & Climate Change*

2013				2014				2015				2016			
Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4



# Consenting timetable

- Initially 4 Projects, applied for by way of 1 - 4 applications
- December 2012 confirmed 4 Teesside projects split into 2 applications
- In producing 2 separate applications - 2 separate statutory consultations will be carried out, approximately one year after the other.
- For completeness – in splitting the consents may need to issue updates to Statements of Community Consultation
- Given the close proximity and the overlap in the onshore survey areas, wherever possible consult on all four projects together.



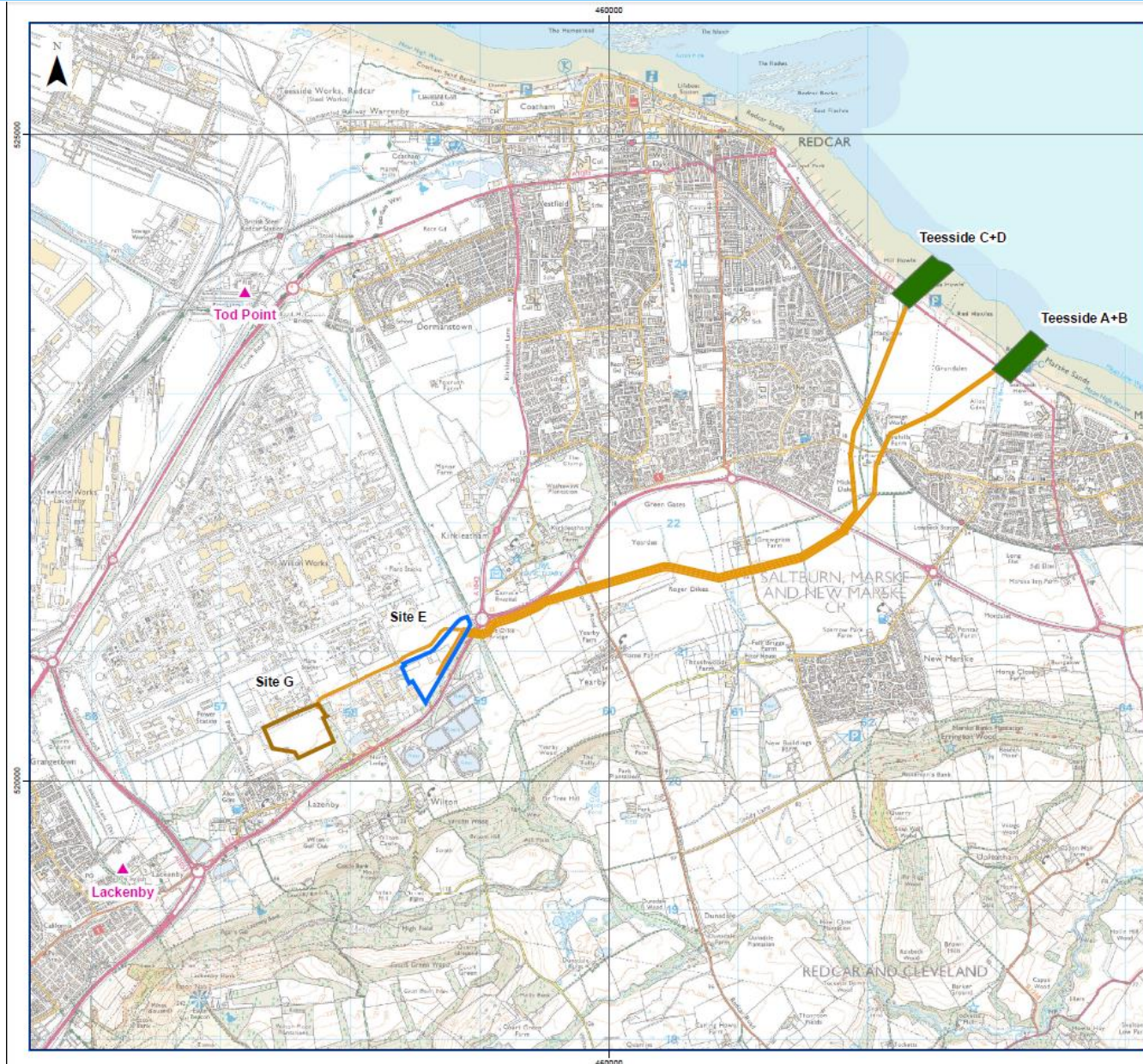
# Micrositing and Construction Area Reductions

Chris Nunn - Onshore Environmental Impact Assessment Manager

17 May 2013

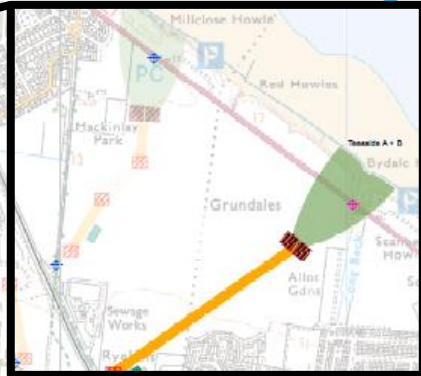
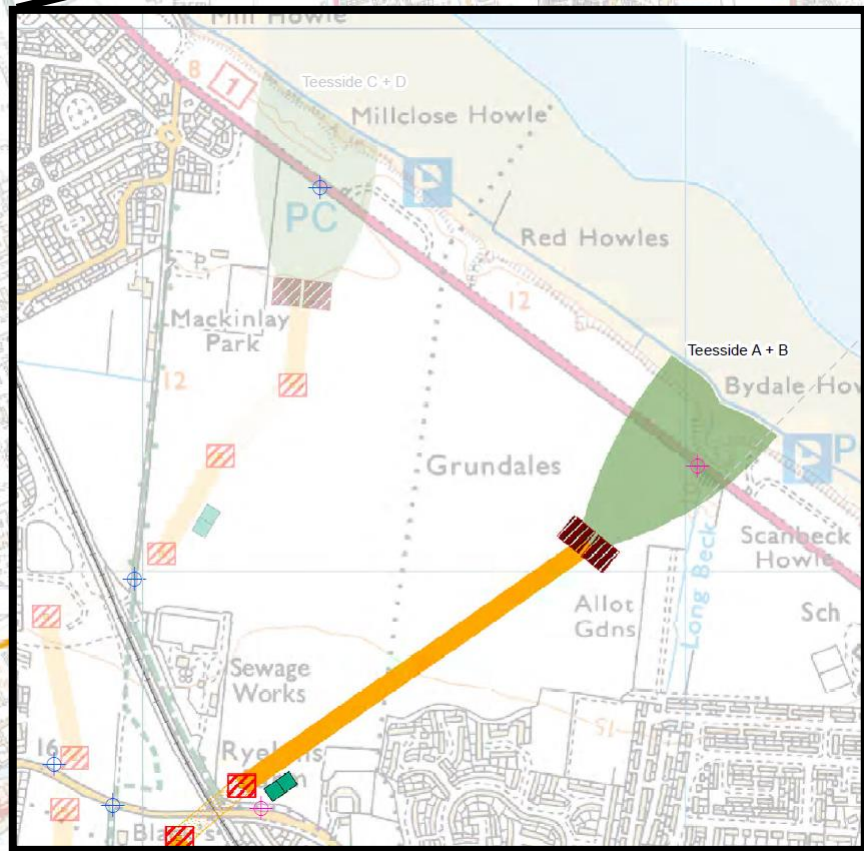


# Teesside Project Infrastructure – Previous



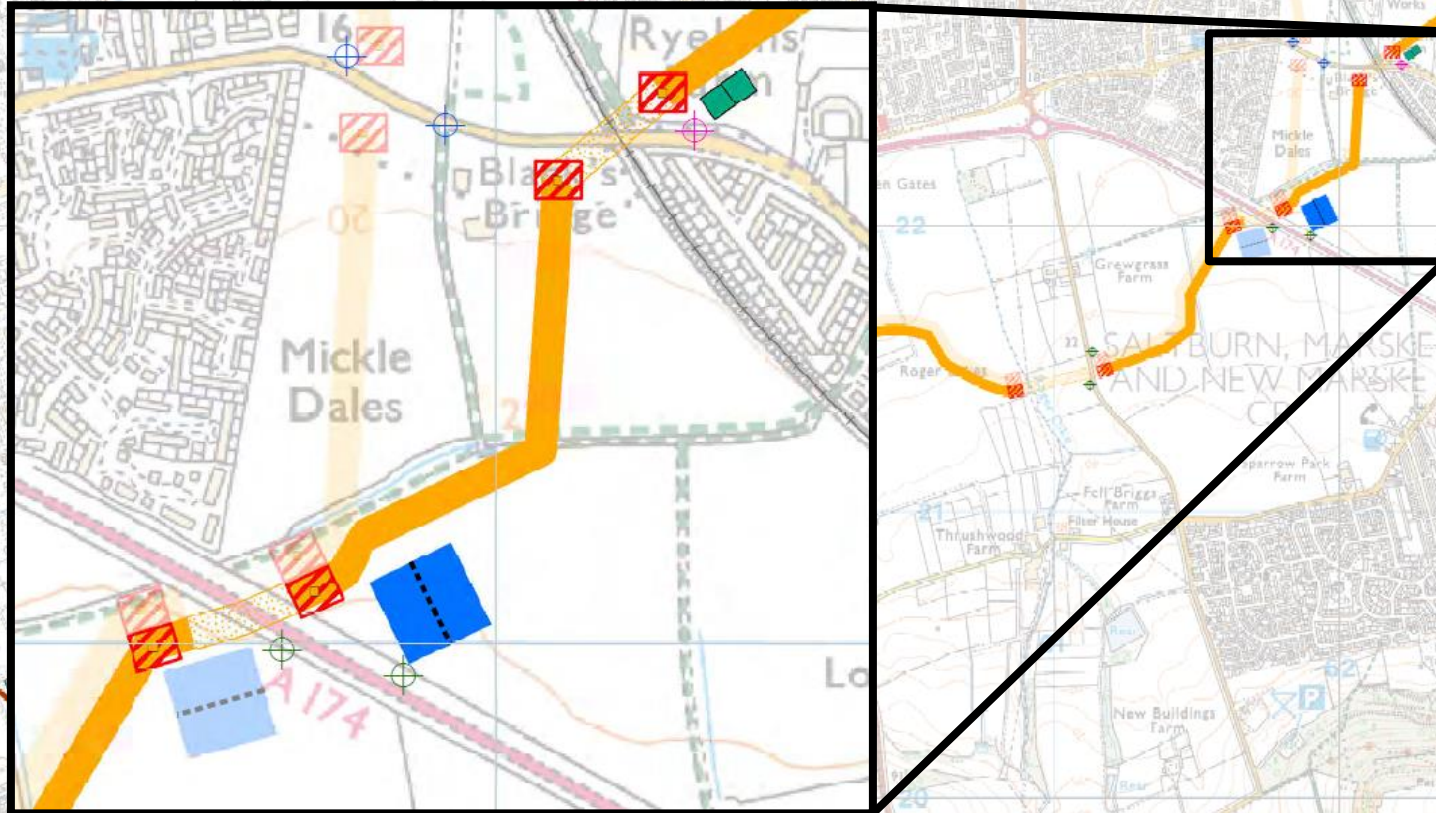
# Adjustment of landfall to avoid Bydales School Additional HDD avoiding Northumbrian Water pipeline

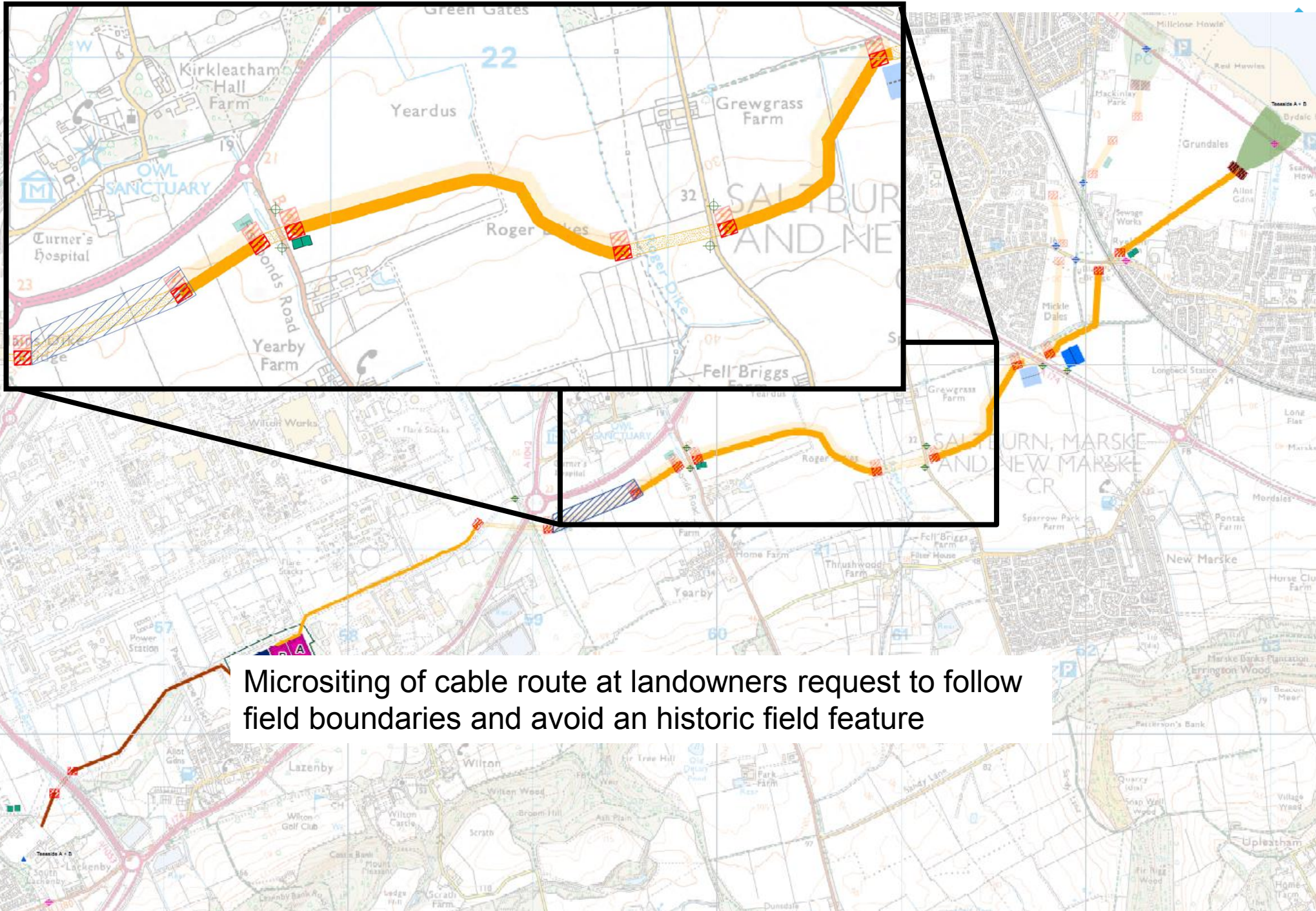
Current proposed cable route





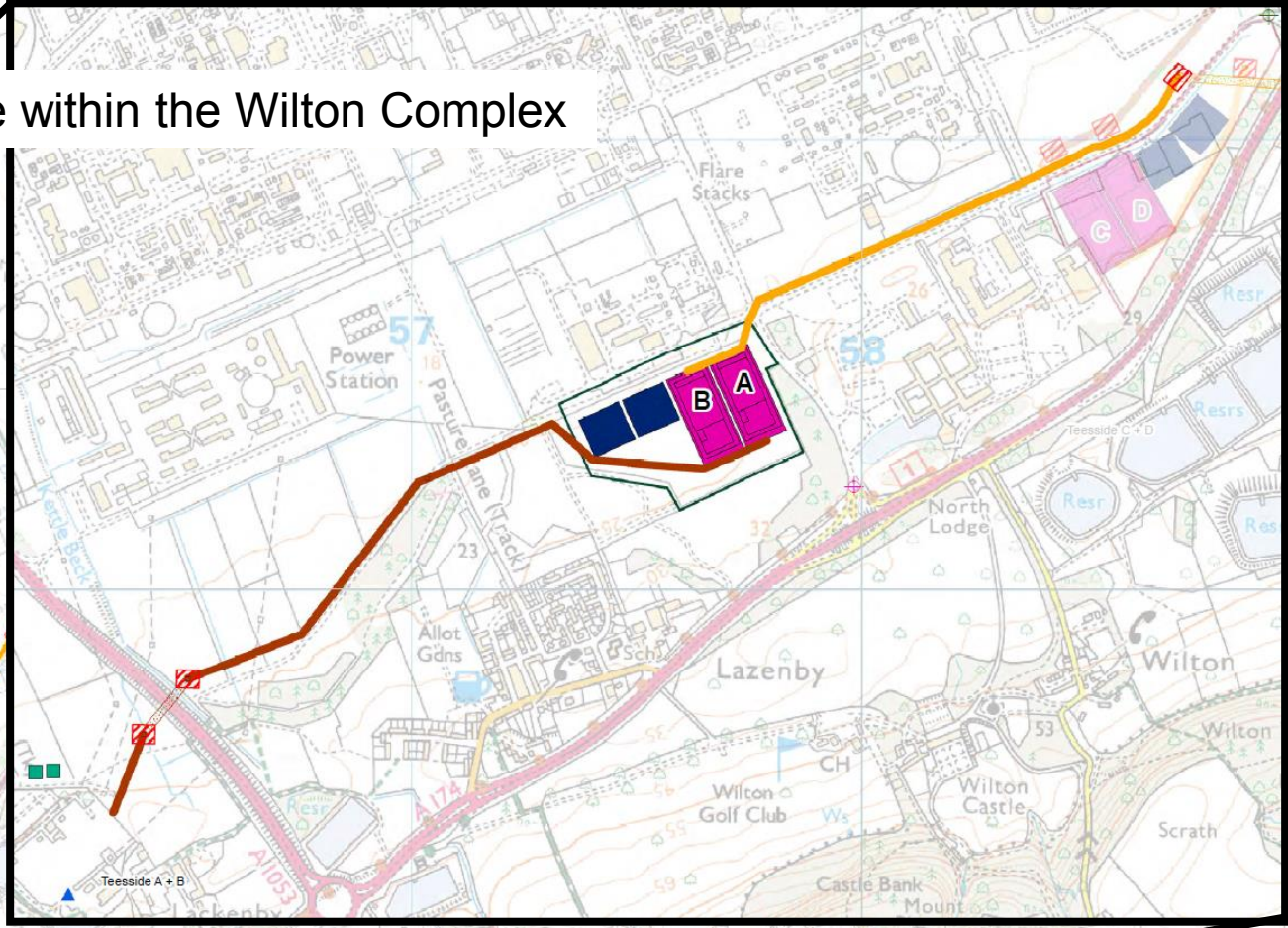
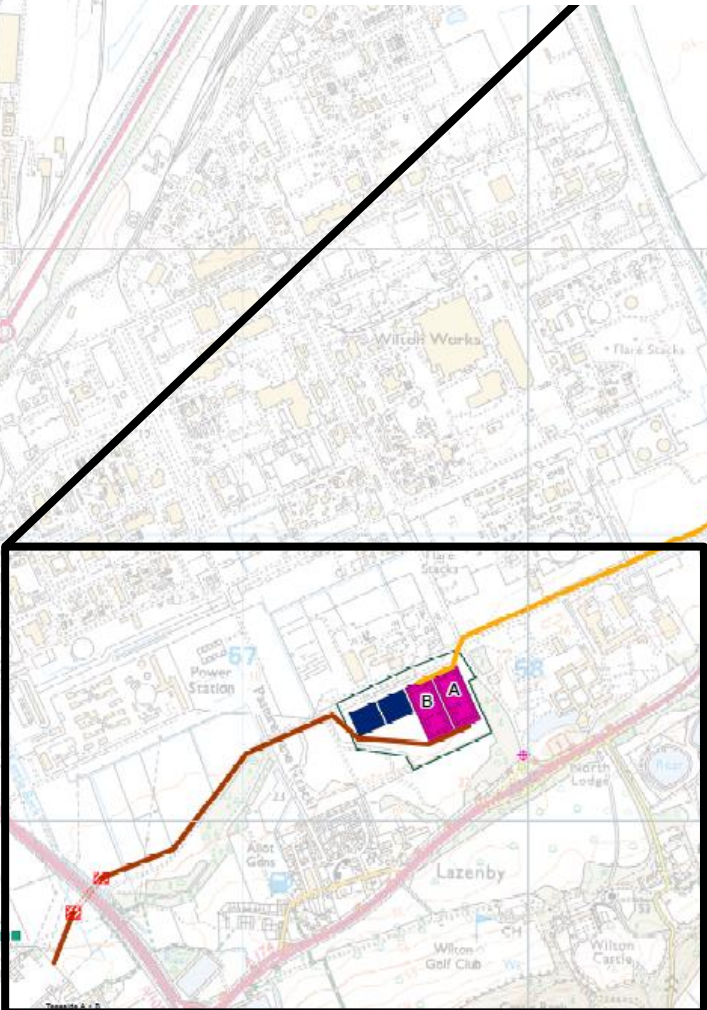
Reduction in the size of construction compounds to reduce landtake





Micrositing of cable route at landowners request to follow field boundaries and avoid an historic field feature

# Micrositing of cable route within the Wilton Complex



# Cable Route Widths

- Forewind have reduced the total area of land take that the project will require during the construction phase of the project.
- The pictures below are from the installation of the underground section of the third Yorkshire Line

**During construction**



**Shortly after construction**



**Less than 12 months later**



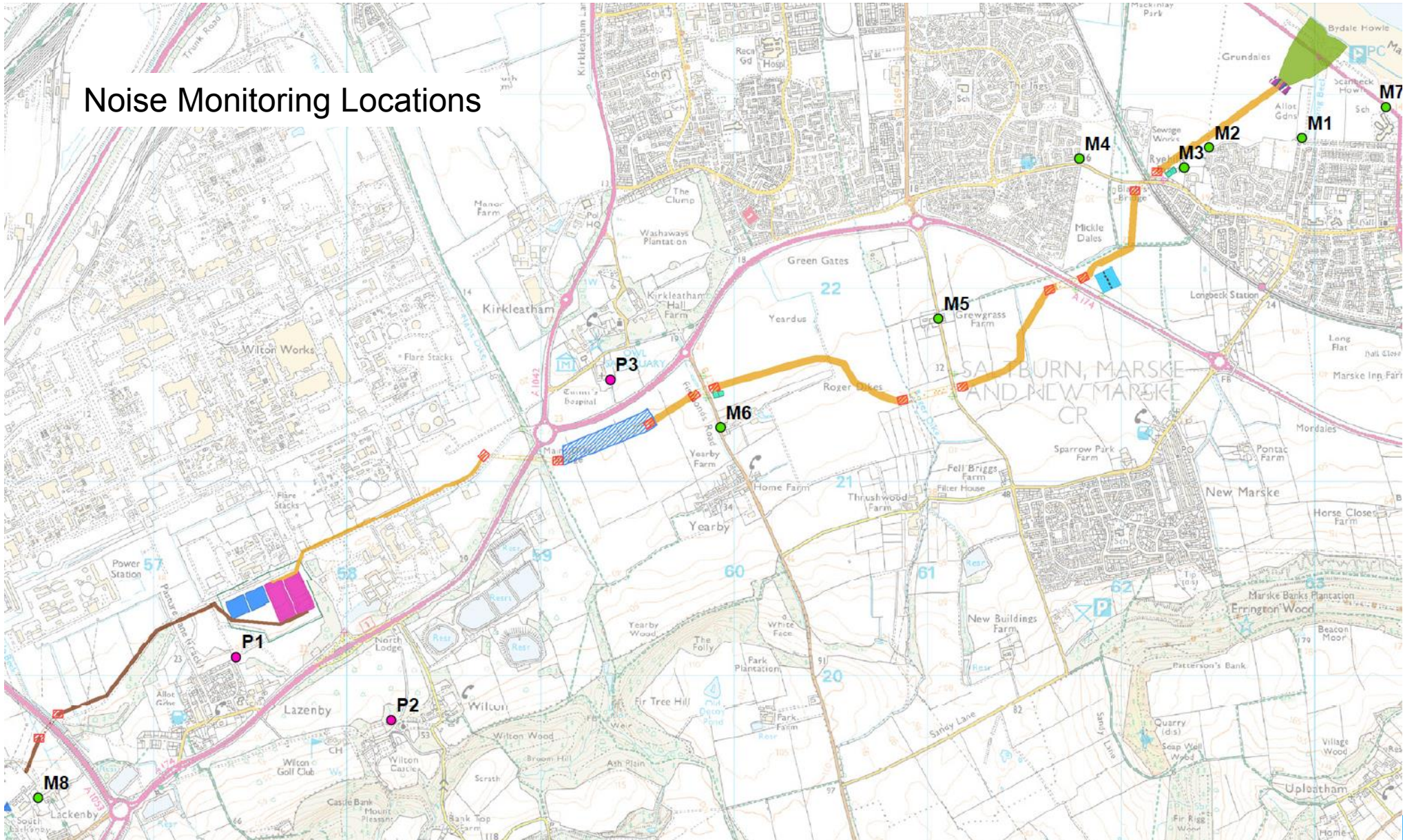
# Environmental Surveys

Chris Nunn - Onshore Environmental Impact Assessment Manager

17 May 2013



## Noise Monitoring Locations

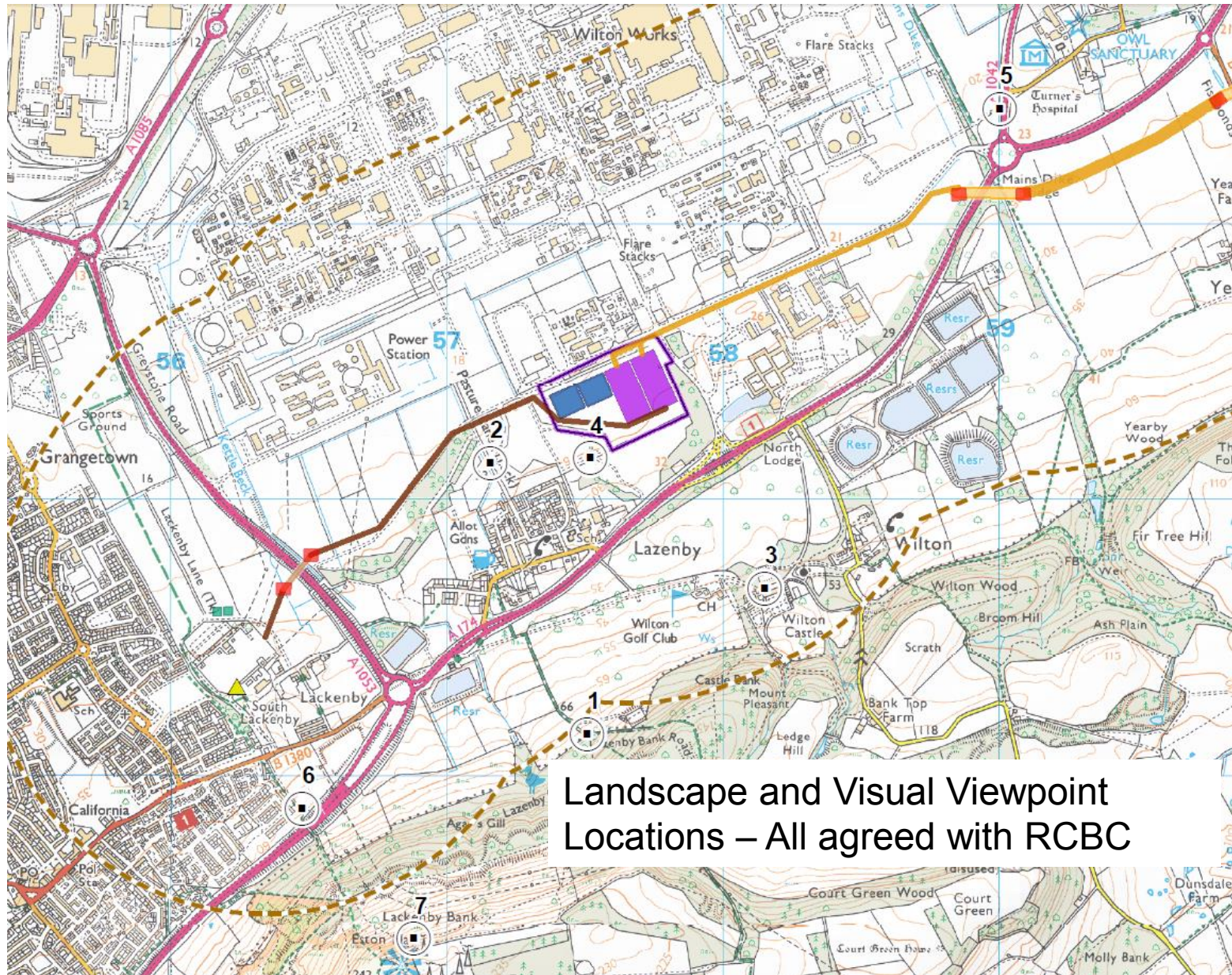


# Converter Stations - Visual Impact

Chris Nunn - Onshore Environmental Impact Assessment Manager

17 May 2013





Landscape and Visual Viewpoint Locations – All agreed with RCBC



# Eston Nab Viewpoint

Photograph



Photomontage



# Edge of Lazenby Viewpoint

Photograph



Photomontage



# Southeast of Kirkleatham Viewpoint

Photograph



Photomontage



# Stakeholder Engagement and Consultation

Chris Gibbs – Project Developer

17 May 2013



- Stakeholder consultation is a key element of the pre-application process
- Phase 1 of statutory consultation was from 24<sup>th</sup> May to the 27<sup>th</sup> June 2012
- Phase 2 will be in Autumn of 2013
- In between statutory consultation periods, Forewind consult certain stakeholders on specific issues e.g. siting the converter station
- Consultation strategy set out in the Stakeholder Engagement Plan, Fisheries Liaison Plan and Statement of Community Consultation (SoCC)
- All consultation will be documented in the Consultation Report



- On May 17 (today) and 18, Forewind are holding 1-2-1 meetings with members of the public to go over any concerns they have and outline the project so far.
- Venues are Zetland Methodist Church, Hall Ings Primary School and Lazenby Village Hall
- The events were advertised in Dogger Bank News – Edition 4 (sent to all postal addresses within 500m of the route, including all of Lazenby).
- Further advertising was done in the Northern Echo, Darlington & Stockton Times, Eston Ward Councillors website and Offshorewind.biz website.

- Forewind are planning to hold the final statutory consultation for Dogger Bank Teesside in Q4 of 2013
  - Public Exhibitions
    - Held in and around Redcar
    - Invitations to public exhibitions will be sent as well as advertised in the Dogger Bank newsletter
  - Meetings with statutory authorities
    - Redcar and Cleveland Borough Council
    - Natural England, Environment Agency, etc.
- Still meeting with RCBC to update them on the project and what has been done so far

# Champions for Wind

- The teachers from each of the school are currently working together on their curriculum material and have begun introducing it into the classrooms.
- The Teesside programme will be extended by 1 year, allowing another 10 teachers to apply to become “Champions”

- A** – Bydales School
- B** – Ryehills School
- C** – Redcar & Cleveland College
- D** – Kirkleatham School
- E** – St Peters College of Math and Computing
- F** – Beech Grove Primary School
- G** – Beverley School
- H** – Hartlepool Pupil Referral Unit
- I** – Dyke House Sports and Technology College
- J** – St Hild’s CoE VA School





# Next Steps

Chris Gibbs – Project Developer

17 May 2013



- Q4 2010 – Preliminary site selection work (offshore focused)
- Q4 2011 – Q2 2012 – Onshore and offshore surveys
- Q2 2012 – Scoping report submitted
- Q2 2012 – Phase 1 of statutory consultation
- Q2 2012 – Q2 2013 – Further surveys, preparation of EIA, non-statutory consultation
- Q4 2013 – Phase 2 of statutory consultation (Draft EIA) for Projects A & B
- Q1 2014 – Application submission to Planning Inspectorate for Projects A & B
- Q2 – Q4 2014 – Application examination for Projects A & B
- Q2 2015 – Application Determined by SoS for Projects A & B
- Q4 2014 – Phase 2 of statutory consultation (Draft EIA) for Projects C & D
- Q1 2015 – Application submission to Planning Inspectorate for Projects C & D
- Q2 – Q4 2015 – Application examination for Projects C & D
- Q2 2016 – Application Determined by SoS for Projects C & D

# Thank you

Any Questions?

