

Friston Parish Council Meeting

EA1N / EA2 Onshore Substation Site Selection Update

Phil Williamson (RHDHV)
Philip Watkins (Eastern Edge)
16 April 2018
Confidential

What are we seeking from today?

- Inform update on project progress (up to Public Information Days)
- Development of substation zones for further investigation
- Listen to your feedback and report back to the Project Team
- Forward programme
- Answer as many questions as you might have

East Anglia TWO & East Anglia ONE North - introduction



East Anglia TWO & East Anglia ONE North – input to site selection

JULY 2017: NG update on CION process & move to Sizewell location

briefing with Suffolk CC and Suffolk Coastal & Waveney DC

SEPTEMBER 2017: onshore study area workshop with SCC and SCDC

OCTOBER 2017: onshore study area update following LPA feedback &

substation zone locations

Public Information Days in various locations

■ **DECEMBER 2017:** results of RAG assessment, workshop on preferred zones &

eastern zones site visit

FEBRUARY 2018: update on site selection works, workshop and all zones site

visit

Site selection process – technical considerations

SPR Substations

Number: 2

Area: 3.61ha

Footprint: 190x190m

Height: 18m (was 21m)

Land for temporary construction works required

NG Substation

Number: 1

Area: 4.55ha

Footprint: 140x325m

Height: 13m

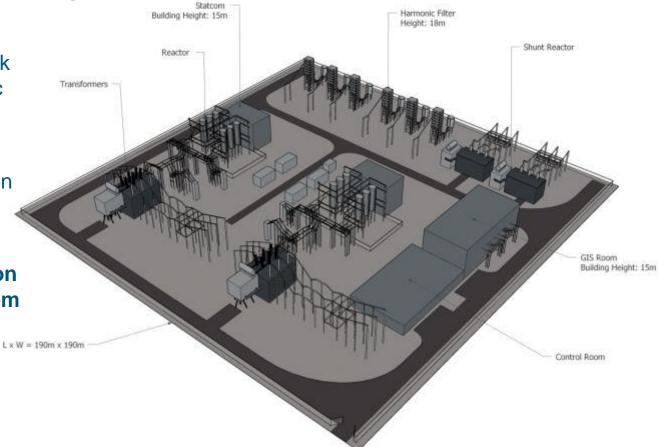
Gantries: 21x21m

Land for temporary construction works required **SPR** substation height reduction

 Listened to feedback from LPA and public

Early engagement with our supply chain

 Commitment to reducing substation building height from 21m to 15m



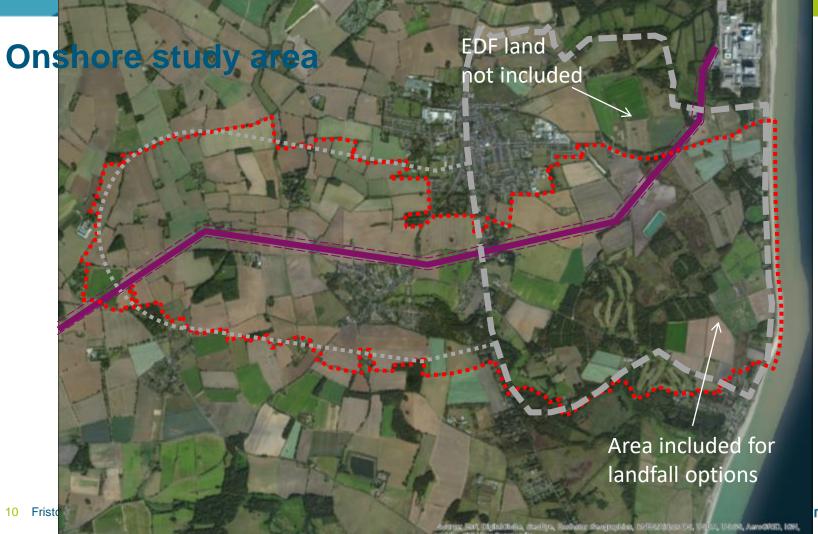
Site selection principles

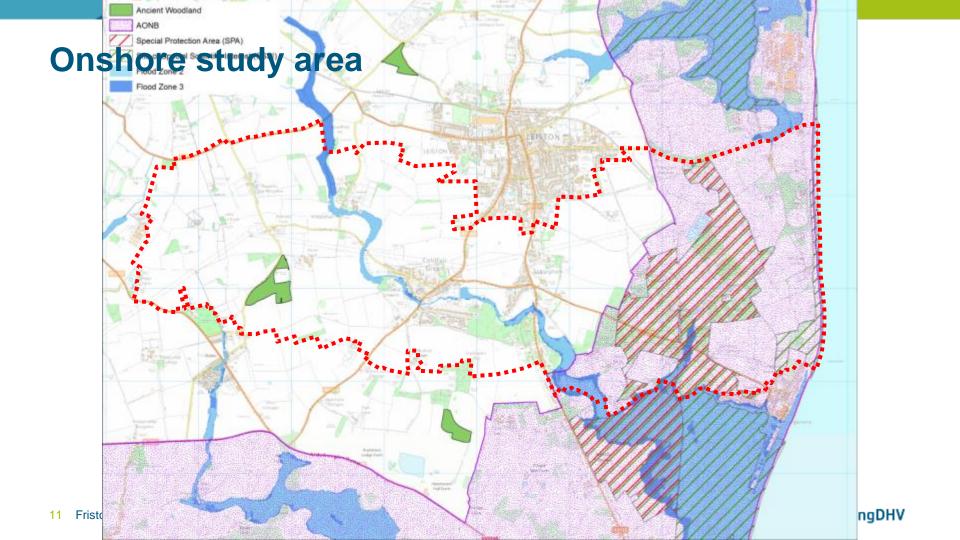
- Fundamental principles
 - Shortest route preference for cable routeing & minimise footprint for the onshore cable routes as well as minimising cost (hence ultimately reducing the cost of energy to the consumer) and transmission losses;
 - Avoidance of key sensitive features where possible and where not, seek to mitigate impacts;
 - Minimise the disruption to populated areas; and
 - Accommodate the range of technology sought within the design envelope, and exclude options outside the envelope (i.e. ruling out overhead lines).

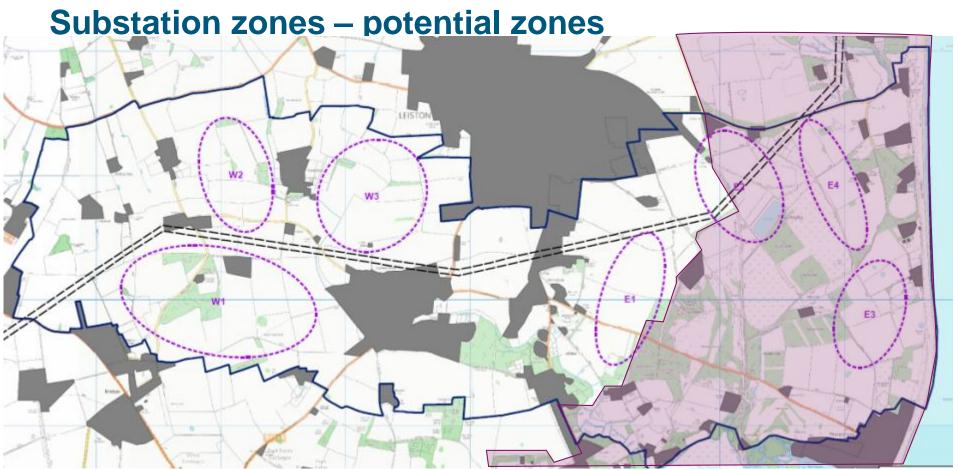
Development of the onshore study area

- Sizewell / Leiston grid connection offer
- Landfall between Sizewell A and Thorpeness
- Siting infrastructure adjacent to the overhead lines is the optimal solution. Study area therefore runs along the overhead lines, approximately 1km either side
- EDF land not included
- Initial study area as far west as Aldeburgh road as crossing it would mean interacting with residential title or woodland
- LPA asked SPR to extend west potential impacts on the AONB
- PIDs in October and November 2017 avoid interacting with residential title
- Crossing west would mean utilising the woodland south of Aldringham Court Nursing Home and require the removal of some trees









RAG (Red Amber Green) assessment

- Comparison between similar sites (optimal locations), assessed separately
 - 2 x SPR substations RAG
 - 1 x NG substation RAG
- Development considerations on 26 (SPR) and 24 (NG) parameters:
 - Community, property & planning
 - Landscape & visual
 - Engineering
 - Ecology
 - Archaeology
 - Hydrology / hydrogeology
- Ranking: defined parameters, professional judgement or relative to other options
- Red score does not eliminate an option

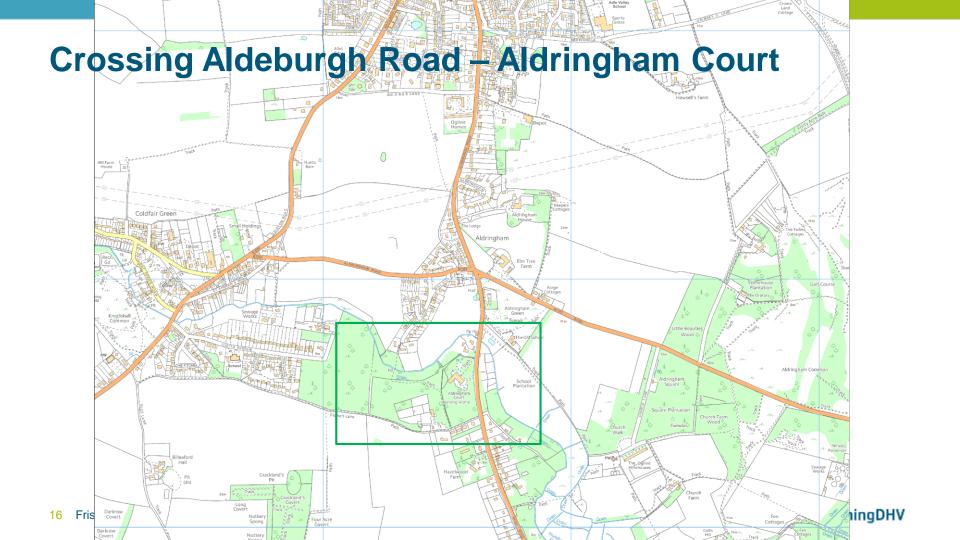
AONB special qualities appraisal

- 'Natural beauty' indicators identified in Section 2.0 of the AONB 'Special Qualities Report'
- Indicators of the landscape qualities of the AONB:
 - Landscape qualities
 - Scenic qualities
 - Relative wildness
 - Relative tranquility
 - Natural heritage features
 - Cultural heritage features
- Each substation zone assessed against each 'natural beauty' indicator
 - AONB indicator present in the baseline of substation zone? (prevalent/notable/limited/not present)
 - magnitude of change to special quality? (high/medium/low/none)
 - potential effect on AONB special quality? (significant/not significant)

LDADESIGN Suffolk Coast and Heaths Area of Outstanding Natural Beauty (AONB) Natural Beauty and Special Qualities Indicators Version Date: 27 November 2016

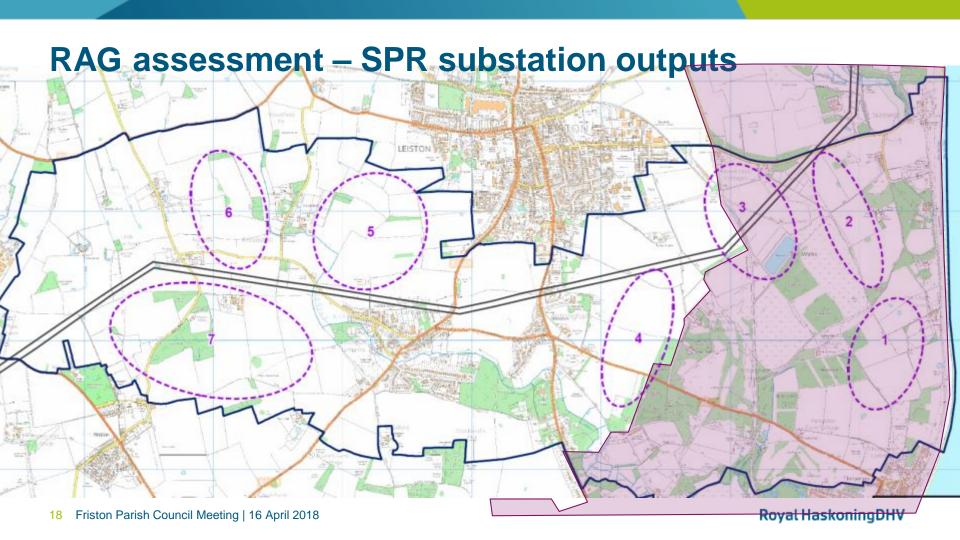
AONB special qualities appraisal

- Eastern zones (E1, E2, E4) would have some significant effects on special qualities of AONB, particularly:
 - E1 & E2 setting of AONB / Sandlings Forests that form backdrop and on 'gateways' to AONB (via PRoW and Thorpeness Rd)
 - E4 consolidates and intensifies significant effects of energy generation and transmission infrastructure, but avoids wider spatial effect on other qualities of AONB
- NPF para 116 'except in <u>exceptional circumstances</u> and where it can be demonstrated that they are in the <u>public interest</u>'.
- Landscape rationale for substations to be sited as close as possible to Sizewell to avoid effects on other parts of AONB and communities further inland, however:
- Western zones (W1, W2, W3) would avoid significant effects on special qualities of AONB
- Significant effects on local character and views would still arise (just not on AONB)
- Mitigation measures more capable of being delivered and effective in western zones (through existing woodland screening and further planting)



RAG assessment – SPR substation results

- AONB special qualities appraisal
- Crossing Aldeburgh Road
- Visual impact mitigation measures are more capable of being delivered and effective in western zones (through existing woodland screening and further planting).
- Improved connectivity between woodland habitats through landscape mitigation in western zones
- Consultation through Parish Council meetings and Public Information Days



Parish Council Flyer

- Presentation on 5th March to Friston
 Parish Council
- Zone 7
- Size of substation and cable route
- Noise (humming)
- Programme (two years)
- Local disruption (noise, visual, businesses & flooding)
- Construction access
- Feedback

DON'T THROW THIS IN THE BIN! - PLEASE READ IT AND ACT

Major Infrastructure Project to come to fields near Friston?

Sectish Power Renewables (SPR) will need to build a group of three electricity substitutes to connect their proposed two new offshore windfarms to the National Gral pylone.

SPR came to present to the Parish Council at their meeting on 5° March. No preference for a site location was mentioned at that stage, but it seemed likely to be in the Starwell/Leiston area, and your Parish Council stated a preference for Zame 3 (see in the map overleaf).

However, at Public Information Days last weekend, the impression was given to several members of the public attending, that SPR are leaning towards Zone 7 as their preferred site. This includes the area of land to the north of the village, on the way to High House Farm.

The substations will be luge, covering a total area of around 30 acres (16 football pitches, or a housing estate of 200 houses). The external garriers and housing buildings will be 15-18 metres (5-6 storeys) high. All transformers make a housing noise—as will these, as they will handle almost 2 GW of power.

They will need to be linked to the coast between Sizewell and Thorpeness by underground cables, which will cut a swathe 50 metres wide scross the country-side.

Construction of the whole project is scheduled to start in 2024, and last for two years.

There is no local benefit to this project, but there will be disruption, noise, visual impact, local business impact, and possible Fooding issues. If Zone 7 is chosen, the hard route for construction traffic woodd be through Sternfield, and a new road to the site woodd be cut across fields between Manor Farm and Friston House. If necessary, a new bridge would be built across the Fromus in Sternfield.

More details of the project can be found online: Google "East Anglia Two", and choose www.scottishpreverrenerables.com/pages/east_anglia_two.aspx. It is worth looking at SPB_Information_Boards_March_2018. Orehore Study Area and Substation Zones and Statement of Community Consultation.

It is surth having your say to SPR about the prospect of Zone 7 being chosen, and quickly. Email contact is castangliatwo@scottishpower.com, or write to Scottish Power Renewables East Anglia Two, RTLY-RLGH-GKSE, FREEPOST, 25 Priestgate, Peterborrough, PEI 11L.

This discusses has been compiled and distributed in basis, with the authorization of the Chairman of Friction Parish Connect. Please fired free to photocopy this discusses and distribute further

Programme

Scoping submission:
10th November 2017

Scoping response: 20th December 2017

■ Public Information Days: 17-18th & 24-25th March 2018

Red Line Boundary definition: Summer 2018

Preliminary Environmental Information Report: Autumn 2018

Environmental Statement: Q2 2019

- Comments can be submitted to SPR at any time
 - <u>eastangliaonenorth@scottishpower.com</u>
 - eastangliatwo@scottishpower.com

AOB / Questions?