East Anglia ONE North and East Anglia TWO Offshore Windfarms

Ecological Enhancement Clarification Note Addendum

Applicants: East Anglia ONE North Limited and East Anglia TWO Limited
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Applicable to East Anglia ONE North and East Anglia TWO

Revision Summary				
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Description of Revisions			
Rev	**Page**	**Section**	**Description**
01	n/a	n/a	Final for submission at Deadline 8

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Glossary of Acronyms

DCO	Development Consent Order
ES	Environmental Statement
OLEMS	Outline Landscape and Ecological Management Strategy
SuDS	Sustainable Drainage Systems

Glossary of Terminology

Applicant	East Anglia TWO Limited / East Anglia ONE North Limited
East Anglia ONE North project	The proposed project consisting of up to 67 wind turbines, up to four offshore electrical platforms, up to one construction, operation and maintenance platform, inter-array cables, platform link cables, up to one operational meteorological mast, up to two offshore export cables, fibre optic cables, landfall infrastructure, onshore cables and ducts, onshore substation, and National Grid infrastructure.
East Anglia TWO project	The proposed project consisting of up to 75 wind turbines, up to four offshore electrical platforms, up to one construction, operation and maintenance platform, inter-array cables, platform link cables, up to one operational meteorological mast, up to two offshore export cables, fibre optic cables, landfall infrastructure, onshore cables and ducts, onshore substation, and National Grid infrastructure.
Mitigation areas	Areas captured within the onshore development area specifically for mitigating expected or anticipated impacts.
National Grid substation	The substation (including all of the electrical equipment within it) necessary to connect the electricity generated by the proposed East Anglia TWO / East Anglia ONE North project to the national electricity grid which will be owned by National Grid but is being consented as part of the proposed East Anglia TWO / East Anglia ONE North project Development Consent Order.
National Grid substation location	The proposed location of the National Grid substation.
Onshore cable corridor	The corridor within which the onshore cable route will be located.
Onshore cable route	This is the construction swathe within the onshore cable corridor which would contain onshore cables as well as temporary ground required for construction which includes cable trenches, haul road and spoil storage areas.
Onshore development area	The area in which the landfall, onshore cable corridor, onshore substation, landscaping and ecological mitigation areas, temporary construction facilities (such as access roads and construction consolidation sites), and the National Grid Infrastructure will be located.
Onshore substation	The East Anglia TWO / East Anglia ONE North substation and all of the electrical equipment within the onshore substation and connecting to the National Grid infrastructure.
Onshore substation location	The proposed location of the onshore substation for the proposed East Anglia TWO / East Anglia ONE North project.

1 Introduction

1. This addendum to the ***Ecological Enhancement Clarification Note*** (REP1-035) has been prepared by East Anglia TWO Limited and East Anglia ONE North Limited (the Applicants) to clarify aspects of the East Anglia TWO and East Anglia ONE North Development Consent Order (DCO) applications (the Applications). In particular, it provides an update to REP1-035 to reflect changes made to the Projects during their DCO Examinations.

2. This document is applicable to both the East Anglia ONE North and East Anglia TWO DCO applications, and therefore is endorsed with the yellow and blue icon used to identify materially identical documentation in accordance with the Examining Authority's procedural decisions on document management of 23rd December 2019 (PD-004). Whilst this document has been submitted to both Examinations, if it is read for one project submission there is no need to read it for the other project submission.

1.1 Purpose

3. The ***Ecological Enhancement Clarification Note*** (REP1-035) submitted at Deadline 1 outlines the opportunities for ecological enhancement to be provided by the Projects by way of various measures proposed within the Environmental Statement (ES) and the ***Outline Landscape and Ecological Management Strategy*** (OLEMS) (document reference 8.7). This addendum to REP1-035 reflects a number of updates to these measures during the Examinations and provides an up to date information on the Projects' potential to deliver ecological enhancement; it should be read in conjunction with REP1-035.

4. Additionally, in its Deadline 2 submission (REP2-029) East Suffolk Council requests clarification on the total length of new hedgerow planting included within ***Table 3*** of REP1-035, noting that it appears to overstate the length to be created by the Projects. The Applicants have since identified an error in the calculation of some of the numbers given in ***Table 3*** and that the total value is overstated. This error is corrected within this addendum.

2 Summary of Results

5. This section presents a summary of the results of the updated calculations to provide an up to date information on the Projects' potential to deliver ecological enhancement. ***Appendix 1*** presents the detailed results for the biodiversity baseline, habitat creation and enhancement.

2.1 Onshore Cable Corridor

6. The majority of habitats affected by the onshore cable routes will be temporarily lost as a result of construction, however they will be replaced 'like-for-like' where possible to ensure habitat connectivity is not permanently affected and that no net loss of biodiversity will result from the Projects.. This will include the use of ecological mitigation areas (including Work Nos. 12A, 14, 24, 28 and 29) to replace any habitats that will be permanently lost.

7. It should be noted that the final onshore cable routes and precise footprints of elements of the Projects associated with their installation, will not be determined until detailed design. This addendum present calculations regarding hedgerows lost to or severed by construction of the onshore cable routes only.

8. All hedgerows that will be temporarily lost will be reinstated in-situ. Where landowner agreement is obtained, improvements (i.e. diverse species specifications which are in-keeping with the character of the local area) will also be made to hedgerows immediately adjacent to the removed sections. Improvements to hedgerows, (e.g. 'gapping up' hedgerows will contribute towards potential biodiversity enhancement. Improvements to other habitats along the cable corridor (e.g. enhancing grassland species mixes and creating wooded areas of better habitat condition than that which will be lost) will be established as planting schedules are refined during detailed design.

9. No enhancement of hedgerows – this might need explanation in the response detailing that this is because we don't have information surrounding gapping up / species lists etc, so therefore have to assume no enhancement will be undertaken.

10. The following assumptions have been applied when undertaking the calculations:

- No enhancement has been assumed as information surrounding gapping up and species lists etc. is not available at this stage;
- In the absence of full hedgerow condition survey data, hedgerows such as 'defunct hedgerow', 'species rich and intact hedge' and 'species poor' are considered 'moderate' (condition). 'Defunct species poor hedgerows' are

considered 'poor' and 'intact species rich hedgerows / hedgerows with trees' are considered 'good'; and

- Hedge creation will comprise 'native species rich hedgerows' and 'native species rich hedgerows with trees'.

11. ***Table 2.1*** presents the headline results for hedgerows along the cable corridor. Detailed results for the hedge baseline and hedge creation are presented in Tables 1 and 2 in ***Appendix 1***.

Table 2.1 Headline Results – Along the Cable Corridor

Feature	On-site Baseline	On-site Post-Intervention	Total Net Unit Change	Total Net % Change
Hedgerow units	26.01	31.95	5.94	22.83%

2.2 Onshore Substations and National Grid Infrastructure

12. Planting and landscaping has been proposed which, among other objectives, seeks to benefit ecological species within the onshore development area. The details of the planting and landscaping proposed are given within the ***OLEMS*** (document reference 8.7). A final Ecological Management Plan and Landscape Management Plan will be produced post-consent for approval by the relevant planning authority as a requirement of the DCO.

13. These management plans will include the creation of substantial areas of new woodland, species rich grassland and hedgerows, the arrangement of these areas to connect internally (within the onshore development area) and connect externally (outside the onshore development area) with existing woodlands, grasslands and hedgerows in the surrounding landscape, and the contribution they would make through their design to the enhancement of the local landscape character. Proposals for planting and landscaping to benefit biodiversity include:

- Proposals for new woodland and native hedgerow planting at the onshore substations and National Grid infrastructure locations (and along the onshore cable routes);
- Proposals for reinstatement of land at the onshore substation and National Grid infrastructure locations (and along the onshore cable routes);
- Proposals for reinstatement and planting of historic hedgerow field boundaries at the onshore substations and National Grid infrastructure locations;

- Proposals for a surface water management sustainable drainage system (SuDS) basins to manage surface water run-off from the onshore substation and National Grid substation locations;
- Proposals for a potential additional SuDS basin (or similar) to assist in the management of surface water inflows to the substation locations; and
- Proposals for biodiversity mitigation within the onshore development area.

14. The following assumptions have been applied when undertaking the calculations:

- Woodland – Planted trees are assumed to be whips. Specific tree species are not reflected; 'woodland and forest – other woodland, young trees planted' has been selected;
- Species rich grassland – Water management surface and wet grassland are assumed to be modified grassland and neutral grassland respectively in the absence of specific species mixes.
- In the absence of a condition survey, assumptions have been made for the woodland and hedgerows based on native species / species richness etc.

15. ***Table 2.2*** presents the headline results for habitats and hedgerows at the onshore substation and National Grid Infrastructure locations. Detailed results for the hedge and habitat baselines and hedge and Habitat creation and enhancement are presented in Table 3 to Table 7 in ***Appendix 1***.

Table 2.2 Headline Results – Onshore Substation and National Grid Infrastructure Locations

Feature	On-site Baseline	On-site Post-Intervention	Total Net Unit Change	Total Net % Change
Habitat units	63.10	113.08	49.99	79.22%
Hedgerow units	21.38	57.26	35.87	167.76%

3 Conclusion

16. The ***Ecological Enhancement Clarification Note*** (REP1-035) outlines the opportunities for ecological enhancement to be provided by the Projects by way of various measures proposed within the ES and ***OLEMS*** (document reference 8.7). This addendum provides an update to REP1-035 to reflect changes made to the Projects during their DCO Examinations.

17. The information presented within REP1-035 and this addendum demonstrates that no net loss of biodiversity will result from the Projects. As noted in ***Table 2.1*** and ***Table 2.2***, there is the potential to create 67.82 hedgerow units across the onshore development area and 49.99 habitat units at the onshore substation and National Grid infrastructure locations.

18. There will be notable opportunities for ecological enhancement which the Projects will seek to deliver and develop through the Landscape Management Plans and Ecological Management Plans, most notably at the ecological mitigation areas at Work Nos. 12A, 14, 24, 28 and 29

Appendix 1 .

Table 1 Site Hedge Baseline – Cable Corridor

Hedgerow Type	Length (km)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Suggested Action to Address Habitat Losses	Total Hedgerow Units
Native Hedgerow	0.17	Low	Poor	Low	Within area formally identified in local strategy	Same distinctiveness band or better	0.391
Native Hedgerow	0.21	Low	Poor	Low	Within area formally identified in local strategy	Same distinctiveness band or better	0.483
Native Species Rich Hedgerow	0.17	Medium	Moderate	Low	Within area formally identified in local strategy	Like for like or better	1.564
Native Hedgerow	0.17	Low	Moderate	Low	Within area formally identified in local strategy	Same distinctiveness band or better	0.782
Native Species Rich Hedgerow with trees	0.003	Medium	Good	Low	Within area formally identified in local strategy	Like for like or better	0.0414
Native Hedgerow with trees	0.31	Low	Moderate	Low	Within area formally identified in local strategy	Same distinctiveness band or better	1.426
Native Hedgerow	0.21	Low	Poor	Low	Within area formally identified in local strategy	Same distinctiveness band or better	0.483
Native Hedgerow	0.12	Low	Moderate	Low	Within area formally identified in local strategy	Same distinctiveness band or better	0.552
Native Hedgerow with trees	0.002	Low	Moderate	Low	Within area formally identified in local strategy	Same distinctiveness band or better	0.0092
Native Hedgerow	0.07	Low	Moderate	Low	Within area formally identified in local strategy	Same distinctiveness band or better	0.322

Hedgerow Type	Length (km)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Suggested Action to Address Habitat Losses	Total Hedgerow Units
Native Hedgerow	0.07	Low	Poor	Low	Within area formally identified in local strategy	Same distinctiveness band or better	0.161
Native Hedgerow with trees	0.07	Low	Moderate	Low	Within area formally identified in local strategy	Same distinctiveness band or better	0.322
Native Hedgerow with trees	0.07	Low	Moderate	Low	Within area formally identified in local strategy	Same distinctiveness band or better	0.322
Native Hedgerow	0.18	Low	Moderate	Low	Within area formally identified in local strategy	Same distinctiveness band or better	0.828
Native Hedgerow	0.26	Low	Poor	Low	Within area formally identified in local strategy	Same distinctiveness band or better	0.598
Native Species Rich Hedgerow with trees	0.05	Medium	Good	Low	Within area formally identified in local strategy	Like for like or better	0.69
Native Hedgerow	0.3	Low	Poor	Low	Within area formally identified in local strategy	Same distinctiveness band or better	0.69
Native Hedgerow	0.34	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	1.496
Native Hedgerow	0.16	Low	Poor	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.352

Hedgerow Type	Length (km)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Suggested Action to Address Habitat Losses	Total Hedgerow Units
Native Hedgerow with trees	0.2	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.88
Native Hedgerow	0.2	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.88
Native Hedgerow with trees	0.11	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.484
Native Hedgerow	0.07	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.308
Native Hedgerow	0.16	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.704
Native Hedgerow	0.23	Low	Poor	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.506
Native Hedgerow	0.07	Low	Poor	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.154
Native Hedgerow	0.26	Low	Poor	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.572

Hedgerow Type	Length (km)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Suggested Action to Address Habitat Losses	Total Hedgerow Units
Native Hedgerow with trees	0.24	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	1.056
Native Hedgerow with trees	0.16	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.704
Native Hedgerow	0.1	Low	Poor	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.22
Native Hedgerow	0.07	Low	Poor	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.154
Native Hedgerow	0.01	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.044
Native Hedgerow	0.17	Low	Poor	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.374
Native Hedgerow	0.09	Low	Poor	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.198
Native Species Rich Hedgerow with trees	0.02	Medium	Good	Low	Location ecologically desirable but not in local strategy	Like for like or better	0.264

Hedgerow Type	Length (km)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Suggested Action to Address Habitat Losses	Total Hedgerow Units
Native Species Rich Hedgerow with trees	0.23	Medium	Good	Low	Location ecologically desirable but not in local strategy	Like for like or better	3.036
Native Hedgerow	0.22	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.968
Native Hedgerow	0.22	Low	Poor	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.484
Native Hedgerow	0.08	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.352
Native Hedgerow	0.05	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.22
Native Hedgerow	0.2	Low	Poor	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.44
Native Hedgerow	0.18	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.792
Native Hedgerow	0.07	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.308

Hedgerow Type	Length (km)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Suggested Action to Address Habitat Losses	Total Hedgerow Units
Native Hedgerow with trees	0.09	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.396
TOTAL	**6.44**	n/a	n/a	n/a	n/a	n/a	**26.01**

Table 2 Site Hedge Creation – Cable Corridor

Habitat Type	Length (km)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Time to Target Condition / Years	Total Hedgerow Units Delivered
Native Species Rich Hedgerow	0.05	Medium	Good	Low	Within area formally identified in local strategy	10	0.32
Native Species Rich Hedgerow	0.03	Medium	Good	Low	Within area formally identified in local strategy	10	0.19
Native Species Rich Hedgerow with trees	0.003	Medium	Good	Low	Within area formally identified in local strategy	20	0.01
Native Species Rich Hedgerow with trees	0.31	Medium	Good	Low	Within area formally identified in local strategy	20	1.41
Native Species Rich Hedgerow	0.21	Medium	Good	Low	Within area formally identified in local strategy	10	1.36
Native Species Rich Hedgerow	0.12	Medium	Good	Low	Within area formally identified in local strategy	10	0.78
Native Species Rich Hedgerow with trees	0.002	Medium	Good	Low	Within area formally identified in local strategy	20	0.01

Habitat Type	Length (km)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Time to Target Condition / Years	Total Hedgerow Units Delivered
Native Species Rich Hedgerow	0.03	Medium	Good	Low	Within area formally identified in local strategy	10	0.19
Native Species Rich Hedgerow	0.03	Medium	Good	Low	Within area formally identified in local strategy	10	0.19
Native Species Rich Hedgerow with trees	0.03	Medium	Good	Low	Within area formally identified in local strategy	20	0.14
Native Species Rich Hedgerow with trees	0.03	Medium	Good	Low	Within area formally identified in local strategy	20	0.14
Native Species Rich Hedgerow	0.18	Medium	Good	Low	Within area formally identified in local strategy	10	1.17
Native Species Rich Hedgerow	0.26	Medium	Good	Low	Within area formally identified in local strategy	10	1.68
Native Species Rich Hedgerow with trees	0.05	Medium	Good	Low	Within area formally identified in local strategy	20	0.23
Native Species Rich Hedgerow	0.3	Medium	Good	Low	Within area formally identified in local strategy	10	1.94
Native Species Rich Hedgerow	0.06	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	0.37
Native Species Rich Hedgerow with trees	0.19	Medium	Good	Low	Location ecologically desirable but not in local strategy	20	0.82

Habitat Type	Length (km)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Time to Target Condition / Years	Total Hedgerow Units Delivered
Native Species Rich Hedgerow	0.03	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	0.19
Native Species Rich Hedgerow with trees	0.11	Medium	Good	Low	Location ecologically desirable but not in local strategy	20	0.48
Native Species Rich Hedgerow	0.03	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	0.19
Native Species Rich Hedgerow	0.16	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	0.99
Native Species Rich Hedgerow	0.16	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	0.99
Native Species Rich Hedgerow	0.03	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	0.19
Native Species Rich Hedgerow	0.26	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	1.61
Native Species Rich Hedgerow with trees	0.03	Medium	Good	Low	Location ecologically desirable but not in local strategy	20	0.13

Habitat Type	Length (km)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Time to Target Condition / Years	Total Hedgerow Units Delivered
Native Species Rich Hedgerow with trees	0.03	Medium	Good	Low	Location ecologically desirable but not in local strategy	20	0.13
Native Species Rich Hedgerow	0.03	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	0.19
Native Species Rich Hedgerow	0.03	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	0.19
Native Species Rich Hedgerow	0.17	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	1.05
Native Species Rich Hedgerow	0.09	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	0.56
Native Species Rich Hedgerow with trees	0.02	Medium	Good	Low	Location ecologically desirable but not in local strategy	20	0.09
Native Species Rich Hedgerow with trees	0.23	Medium	Good	Low	Location ecologically desirable but not in local strategy	20	1.00
Native Species Rich Hedgerow	0.22	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	1.36

Habitat Type	Length (km)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Time to Target Condition / Years	Total Hedgerow Units Delivered
Native Species Rich Hedgerow	0.03	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	0.19
Native Species Rich Hedgerow	0.03	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	0.19
Native Species Rich Hedgerow with trees	0.09	Medium	Good	Low	Location ecologically desirable but not in local strategy	20	0.39
Native Species Rich Hedgerow	0.03	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	0.19
Native Species Rich Hedgerow	0.03	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	0.19
Native Species Rich Hedgerow	0.03	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	0.19
Native Species Rich Hedgerow	0.03	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	0.19
TOTAL	**3.79**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**21.82**

Table 3 Site Habitat Baseline – Onshore Substations and National Grid Infrastructure

Habitat Type	Area (ha)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Suggested Action to Address Habitat Losses	Total Habitat Units
Cropland - Cereal crops	3.23	Low	N/A - Agricultural	Low	Location ecologically desirable but not in local strategy	Same distinctiveness or better habitat required	7.11
Cropland - Cereal crops	3.23	Low	N/A - Agricultural	Low	Location ecologically desirable but not in local strategy	Same distinctiveness or better habitat required	7.11
Cropland - Cereal crops	4.5	Low	N/A - Agricultural	Low	Location ecologically desirable but not in local strategy	Same distinctiveness or better habitat required	9.90
Cropland - Cereal crops	0.5	Low	N/A - Agricultural	Low	Location ecologically desirable but not in local strategy	Same distinctiveness or better habitat required	1.10
Cropland - Cereal crops	0.5	Low	N/A - Agricultural	Low	Location ecologically desirable but not in local strategy	Same distinctiveness or better habitat required	1.10
Cropland - Cereal crops	0.04	Low	N/A - Agricultural	Low	Location ecologically desirable but not in local strategy	Same distinctiveness or better habitat required	0.09
Cropland - Cereal crops	0.12	Low	N/A - Agricultural	Low	Location ecologically desirable but not in local strategy	Same distinctiveness or better habitat required	0.26

Habitat Type	Area (ha)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Suggested Action to Address Habitat Losses	Total Habitat Units
Cropland - Cereal crops	1.53	Low	N/A - Agricultural	Low	Location ecologically desirable but not in local strategy	Same distinctiveness or better habitat required	3.37
Cropland - Cereal crops	3.27	Low	N/A - Agricultural	Low	Location ecologically desirable but not in local strategy	Same distinctiveness or better habitat required	7.19
Woodland and forest - Other woodland; broadleaved	2.94	Medium	Moderate	Low	Location ecologically desirable but not in local strategy	Same broad habitat or a higher distinctiveness habitat required	25.87

Table 4 Site Habitat Creation – Onshore Substations and National Grid Infrastructure

Habitat Type	Area (ha)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Time to Target Condition / Years	Difficulty of Creation Category	Total Habitat Units Delivered
Urban - Amenity grassland	0.05	Low	Moderate	Low	Location ecologically desirable but not in local strategy	3	Low	0.20
Urban - Amenity grassland	0.23	Low	Moderate	Low	Location ecologically desirable but not in local strategy	3	Low	0.91
Woodland and forest - Other woodland; Young Trees planted	1.88	Medium	Poor	Low	Location ecologically desirable but not in local strategy	25	Low	3.39
Grassland - Modified grassland	1.16	Low	Good	Low	Location ecologically desirable but not in local strategy	15	Low	4.49

Habitat Type	Area (ha)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Time to Target Condition / Years	Difficulty of Creation Category	Total Habitat Units Delivered
Urban - Amenity grassland	2.64	Low	Moderate	Low	Location ecologically desirable but not in local strategy	3	Low	10.44
Woodland and forest - Other woodland; Young Trees planted	9.26	Medium	Poor	Low	Location ecologically desirable but not in local strategy	25	Low	16.72
Grassland - Other neutral grassland	2.66	Medium	Good	Low	Location ecologically desirable but not in local strategy	15	Low	20.58
Grassland - Modified grassland	7.7	Low	Good	Low	Location ecologically desirable but not in local strategy	15	Low	29.78
Woodland and forest - Wet woodland	0.27	High	Good	Low	Location ecologically desirable but not in local strategy	32+	Medium	1.15
TOTAL	**45.71**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**150.76**

Table 5 Site Hedge Baseline – Onshore Substations and National Grid Infrastructure

Hedgerow Type	Length (km)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Suggested Action to Address Habitat Losses	Total Hedgerow Units
Native Hedgerow with trees	0.19	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.836

Hedgerow Type	Length (km)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Suggested Action to Address Habitat Losses	Total Hedgerow Units
Native Hedgerow with trees	0.12	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.528
Native Hedgerow with trees	0.1	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.44
Native Hedgerow	0.18	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.792
Native Hedgerow	0.06	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.264
Native Hedgerow	0.07	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.308
Native Hedgerow	0.13	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.572
Native Species Rich Hedgerow with trees	0.14	Medium	Good	Low	Location ecologically desirable but not in local strategy	Like for like or better	1.848
Native Hedgerow	0.08	Low	Poor	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.176

Hedgerow Type	Length (km)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Suggested Action to Address Habitat Losses	Total Hedgerow Units
Native Hedgerow with trees	0.19	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.836
Native Hedgerow	0.13	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.572
Native Hedgerow with trees	0.18	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.792
Native Hedgerow with trees	0.07	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.308
Native Hedgerow	0.16	Low	Poor	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.352
Native Hedgerow with trees	0.16	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.704
Native Hedgerow	0.37	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	1.628
Native Hedgerow with trees	0.16	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.704

Hedgerow Type	Length (km)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Suggested Action to Address Habitat Losses	Total Hedgerow Units
Native Hedgerow with trees	0.23	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	1.012
Native Hedgerow with trees	0.12	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.528
Native Hedgerow with trees	0.05	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.22
Native Hedgerow with trees	0.05	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.22
Native Hedgerow	0.26	Low	Poor	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.572
Native Hedgerow	0.01	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.044
Native Hedgerow	0.17	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.748
Native Hedgerow	0.25	Low	Poor	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.55

Hedgerow Type	Length (km)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Suggested Action to Address Habitat Losses	Total Hedgerow Units
Native Hedgerow with trees	0.12	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.528
Native Hedgerow with trees	0.16	Low	Moderate	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.704
Native Hedgerow	0.23	Low	Poor	Low	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.506
Native Species Rich Hedgerow with trees	0.02	Medium	Good	Low	Location ecologically desirable but not in local strategy	Like for like or better	0.264
Native Species Rich Hedgerow with trees	0.12	Medium	Good	Low	Location ecologically desirable but not in local strategy	Like for like or better	1.584
Native Species Rich Hedgerow with trees	0.14	Medium	Good	Low	Location ecologically desirable but not in local strategy	Like for like or better	1.848
Native Species Rich Hedgerow with trees	0.03	Medium	Good	Low	Location ecologically desirable but not in local strategy	Like for like or better	0.396
TOTAL	**4.45**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**21.38**

Table 6 Site Hedge Creation – Onshore Substations and National Grid Infrastructure

Habitat Type	Length (km)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Time to Target Condition / Years	Total Hedgerow Units Delivered
Native Species Rich Hedgerow with trees	0.17	Medium	Good	Low	Location ecologically desirable but not in local strategy	20	0.74
Native Species Rich Hedgerow with trees	0.08	Medium	Good	Low	Location ecologically desirable but not in local strategy	20	0.35
Native Species Rich Hedgerow with trees	0.08	Medium	Good	Low	Location ecologically desirable but not in local strategy	20	0.35
Native Species Rich Hedgerow	0.16	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	0.99
Native Species Rich Hedgerow	0.05	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	0.31
Native Species Rich Hedgerow	0.07	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	0.43
Native Species Rich Hedgerow	0.13	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	0.81

Habitat Type	Length (km)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Time to Target Condition / Years	Total Hedgerow Units Delivered
Native Species Rich Hedgerow with trees	0.12	Medium	Good	Low	Location ecologically desirable but not in local strategy	20	0.52
Native Species Rich Hedgerow	0.08	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	0.50
Native Species Rich Hedgerow with trees	0.19	Medium	Good	Low	Location ecologically desirable but not in local strategy	20	0.82
Native Species Rich Hedgerow	0.13	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	0.81
Native Species Rich Hedgerow with trees	0.18	Medium	Good	Low	Location ecologically desirable but not in local strategy	20	0.78
Native Species Rich Hedgerow with trees	0.07	Medium	Good	Low	Location ecologically desirable but not in local strategy	20	0.30
TOTAL	**1.51**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**7.71**

Table 7 Site Hedge Enhancement – Onshore Substations and National Grid Infrastructure

Baseline Habitat	Proposed	Distinctiveness Movement	Condition Movement	Length (km)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Time to Target Condition / Years	Difficulty of Enhancement Category	Hedge Units Delivered
Native Hedgerow	Native Species Rich Hedgerow	Low - Medium	Lower Distinctiveness Habitat - Good	0.02	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	Medium	0.17
Native Hedgerow with trees	Native Species Rich Hedgerow with trees	Low - Medium	Lower Distinctiveness Habitat - Good	0.02	Medium	Good	Low	Location ecologically desirable but not in local strategy	20	Medium	0.15
Native Hedgerow	Native Species Rich Hedgerow	Low - Medium	Lower Distinctiveness Habitat - Good	0.04	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	Medium	0.29
Native Hedgerow	Native Species Rich Hedgerow	Low - Medium	Lower Distinctiveness Habitat - Good	0.02	Medium	Good	Low	Location ecologically desirable but not in	10	Medium	0.17

Baseline Habitat	Proposed	Distinctiveness Movement	Condition Movement	Length (km)	Distinctiveness	Condition	Ecological Connectivity	Strategic Significance	Time to Target Condition / Years	Difficulty of Enhancement Category	Hedge Units Delivered
								local strategy			
Native Hedgerow with trees	Native Species Rich Hedgerow with trees	Low - Medium	Lower Distinctiveness Habitat - Good	0.01	Medium	Good	Low	Location ecologically desirable but not in local strategy	20	Medium	0.07
Native Hedgerow	Native Species Rich Hedgerow	Low - Medium	Lower Distinctiveness Habitat - Good	0.08	Medium	Good	Low	Location ecologically desirable but not in local strategy	10	Medium	0.59
TOTAL	**n/a**	**n/a**	**n/a**	**0.19**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**1.44**