



North Norfolk Landscape Sensitivity Assessment

with particular reference to renewable energy and low carbon development

DRAFT Supplementary Planning Document

Prepared by LUC for North Norfolk District



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Final Report Prepared by LUC for North Norfolk District Council November 2018



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Executive Summary

North Norfolk's landscape has a significant economic, social and community value, contributing to a strong tourism industry. The District has good conditions to produce renewable energy, but also has high environmental value for its wildlife, history and natural beauty. This is reflected in the extensive stretches of the coast, together with rare chalk rivers, that are the subject of international and national designations for their landscape and wildlife value.

The Council recognises the need to maximise renewable energy generation, but this needs to be managed carefully to achieve the greatest contribution towards our energy needs, while ensuring landscape character and values are respected.

This study has assessed the sensitivity of North Norfolk's landscape to various types of renewable and low carbon development, using a methodology which is consistent with best practice. Its outputs provide an indication at a strategic scale of the relative sensitivities of different landscape areas to different types of renewable energy related development.

The assessment has defined and applied criteria relating to the susceptibility to change and the value of different landscape areas. The Landscape Character Types (LCTs) defined in the District's Landscape Character Assessment (2018) provide the spatial framework for the assessment, and the Landscape Character Assessment also provides an evidence base for the sensitivity study. In addition, specific assessment of six former RAF airfields has been carried out.

The North Norfolk Landscape Character Assessment (2018) identified that the District has a strongly rural character with agriculture, in particular arable farmland, comprising by far the largest component of land use. The Landscape Sensitivity Assessment found that the majority of the District's landscape has relatively high levels of sensitivity to most forms of development under consideration. The areas of more expansive and homogeneous arable farmland generally have a lower sensitivity to most forms of development than the more naturalistic landscapes such as the coastal marshes and river valleys, although the high degree of visual openness within the District means that the tallest developments, such as larger wind turbines, can be visible across several LCTs.

Typical sensitivity to all development types is high within the Norfolk Coast AONB, and larger developments such as wind turbines outside the AONB can also affect the special qualities of the land within the AONB, due to the visual openness of the landscape.

Airfield sensitivity is typically lower than sensitivity of the Landscape Type in which each site is located, although there is generally less difference in relation to wind turbines, which have a greater impact on surrounding landscapes than the lower-level development types.

The study does not make judgements about particular localised areas where sensitivity may be different from that which is typical, but it provides guidelines to assist with the identification of locations in which adverse landscape impact may be reduced, either by avoiding the more sensitive elements of the landscape or by applying mitigating measures to reduce any harm.



1 Introduction

Background & Purpose of the Landscape Sensitivity Assessment

- 1.1 North Norfolk District is faced with a wide range of challenges arising from a changing climate.

 Balancing the need to make a meaningful contribution towards reducing harmful emissions from our energy use (through cleaner energy production) with appropriate management of North Norfolk's unique landscape isone of these challenges.
- 1.2 The landscape of North Norfolk has significant economic, social and community value. It is vitally important for agriculture and tourism which are the mainstays of the local economy. High productivity from the land, a strong sense of identity, well-being and inspiration are all features derived from the landscape.
- 1.3 The coastal landscape is highly valued for its special geological and biodiversity features and is protected through international and national designations. The natural beauty of 25% of the District is recognised through designation of the Norfolk Coast Area of Outstanding Natural Beauty (AONB). Part of the coast also has Heritage Coast status.
- 1.4 The Council recognises the need to maximise renewable energy generation (which can have environmental, economic, social and other benefits) alongside the duty to accommodate this requirement without detriment to the recognised high environmental value of the area.
- 1.5 North Norfolk District Council commissioned LUC in February 2018 to review and update the existing landscape character evidence base, and produce an updated Landscape Character Assessment together with a landscape sensitivity assessment focused around types of renewable energy development.
- 1.6 These studies are intended to provide context for policies and proposals within the emerging Local Plan, to ensure consistency with the National Planning Policy Framework (see below), to inform the determination of planning applications, and inform the management of future change.
- 1.7 Landscape Sensitivity Assessment has become an important tool for informing the management of landscape change, by assessing and mapping the relative sensitivity of different landscapes to different types of change, based on an understanding of sensitivity and value.

Policy Context

National Planning Policy Framework (NPPF), 2018

- 1.8 The NPPF 2018 has a commitment to conserving and enhancing the natural environment, including protecting and enhancing valued landscapes (including but not limited to designated landscapes such as AONBs and National Parks) and recognising the intrinsic character and beauty of the countryside.
- 1.9 The following extracts from the NPPF are those most relevant to landscape sensitivity and renewable energy. Words in bold are emphasised for the purposes of this report.

Key NPPF policies in relation to landscape sensitivity and renewable energy

1.10 Paragraph 180 of the NPPF contains one reference to sensitivity as follows:

"Planning policies and decisions should also ensure that new development is appropriate for its location taking into account the likely effects (including cumulative effects) of pollution on health, living conditions and the natural environment, as well as the

- **potential sensitivity of the site or the wider area** to impacts that could arise from the development..."
- 1.11 Landscape sensitivity can inform appropriate locations for development, and can also be one of the considerations to be taken into account when making decisions on planning applications.
- 1.12 Paragraph 151 relates to planning for renewable energy and states:
 - "To help increase the use and supply of renewable and low carbon energy and heat, plans should:
 - a) provide a positive strategy for energy from these sources, that maximises the potential for suitable development, while ensuring that adverse impacts are addressed satisfactorily (including cumulative landscape and visual impacts);
 - b) consider identifying **suitable areas for renewable and low carbon energy sources**, and supporting infrastructure, where this would help secure their development; and
 - c) identify opportunities for development to draw its energy supply from decentralised, renewable or low carbon energy supply systems and for co-locating potential heat customers and suppliers."
- 1.13 And Paragraph 154:

"Once suitable areas for renewable and low carbon energy have been identified in plans, **local** planning authorities should expect subsequent applications for commercial scale projects outside these areas to demonstrate that the proposed location meets the criteria used in identifying suitable areas".

The landscape sensitivity study can be used to provide a strategy for renewable energy, including identifying 'suitable areas', but it cannot be used in isolation. Other considerations such as other physical constraints, other environmental constraints (e.g. biodiversity and heritage) and policy constraints (such as Green Belt or Undeveloped Coast) will also influence the strategy.

Using this Study

1.14 This study is intended to be used by the Council and by developers in identifying suitable locations for renewable and low carbon energy as well as assessing and appraising applications as shown in the table below.

Table 1.1: Potential uses of the Landscape Sensitivity Assessment

Potential uses of study	How NNDC might use the study	How developers might use the study
I dentifying suitable locations for renewable and low carbon energy	The relative ratings of sensitivity could feed into identifying 'suitable areas for renewable and low carbon energy', as required by NPPF, in combination with other policy requirements.	This study can be used to inform appropriate siting of renewable energy related developments by using the sensitivity levels in combination with the generic guidance to identify the most appropriate locations, and avoid the most sensitive locations.
Assessing and appraising planning applications	The sensitivity levels in combination with the generic guidance can be used to consider	The sensitivity levels in combination with the generic guidance can be used by developers to ensure their

whether a development is in an appropriate location and whether it is likely to have an adverse effect on the landscape, either as a result of its location or its design¹.

In addition, the flowchart on page 3 of the North Norfolk Landscape Character Assessment (2018) should be used to shape proposals and assist in planning decisions.

assessment considers all relevant points².

In addition, the flowchart on page 3 of the North Norfolk Landscape Character Assessment (2018) should be used to inform assessments of proposals.

To develop policy in relation to renewable and low carbon energy and impacts on landscape This study can help with informing criteria based policies as part of the Local Plan.

The study could be used to inform developers' own strategies and site searches

1.15 In relation to the second of these uses (assessing and appraising planning applications), the following flow chart should assist in using available information to shape proposals / assist in planning decisions:

What type of change is proposed?



To which Landscape Character Type (LCT) or airfield does the proposal relate [refer to Figure 2.4], and is the site within the Norfolk Coast AONB? NB if a proposal is close to the edge of two or more LCTs all relevant profiles will need to be consulted



With reference to the relevant Landscape Sensitivity Assessment Profile(s) in Appendix 1 (LCTs) or Appendix 2 (airfields), what is the assessed overall level of sensitivity for the location and type of development?



To what degree does the site reflect the typical sensitivities identified in the **sensitivity criteria** and **value criteria** for the LCT or airfield in question? Does the assessment text identify any areas of higher or lower sensitivity that may be applicable to the proposal?



Will any of the **key sensitivities** or **valued features and qualities** [as set out in the relevant Appendix 1 or Appendix 2 profile, and described in more detail in the North Norfolk Landscape Character Assessment 2018] be affected by the proposal?

If so, which ones and how?

¹ It should be noted that development may impact on a neighbouring LCT that may have different sensitivities, and more than one LCT sensitivity appraisal may therefore need to be taken into account.

² It should be noted that development may impact on a neighbouring LCT that may have different sensitivities, and more than one LCT sensitivity appraisal may therefore need to be taken into account.



With reference to the **guidance for minimising harm to the landscape** [set out by development type in Appendix 3], are there any **specific site location factors** or opportunities for **mitigation** which could reduce the level of harm suggested by the Landscape Sensitivity Assessment Profile?

Limitations of the landscape sensitivity assessment

- 1.16 This Landscape Sensitivity Assessment provides an assessment of the relative landscape sensitivities of different landscape areas to different types of renewable energy related development at a strategic scale, without knowing the exact location, layout, design or mitigation proposed.
- 1.17 It therefore should not be interpreted as a definitive statement on the suitability of a certain location for a particular development. It is not a replacement for detailed studies for specific siting and design and all developments will need to be assessed on their individual merits. It is also unrelated to any studies of technical potential.
- 1.18 This Landscape Sensitivity Assessment is based on an assessment of landscape character using carefully defined criteria. As with all analyses based upon data and information which is to a greater or lesser extent subjective, some caution is required in its interpretation. The reality is that landscape sensitivity is the result of a complex interplay of often unequally weighted variables (or 'criteria'). We have sought to address this issue in our summary of overall landscape sensitivity given for each LCT which considers how the criteria based assessments combine to give an overall sensitivity result for different development types within an LCT. Because of the complexity of the criteria, and their subtle interrelationships with each other, we have purposefully not used a numeric scoring system in expressing sensitivity. The assessments are based on professional judgement, taking account of the interplay between criteria, as well as those which might be more important [to landscape character] in a particular LCT.
- 1.19 It is also worth noting that the assessment does not cover the following:
 - Specific ecological issues associated with nature conservation designations or, in the case of wind turbines, bird flight paths;
 - Specific cultural heritage/archaeological issues associated with individual designated heritage assets and their settings;
 - · Visual amenity issues; or
 - Technical issues relating to the feasibility of a particular type of development (e.g. constraints relating to continued aviation use of an airfield).
- 1.20 These are all issues that will need to be taken into account in site selection and impacts will need to be reported at the time when individual proposals are being put forward e.g. through the Environmental Impact Assessment (EIA) process.
- 1.21 This report does not address capacity because it is not readily possible to assess capacity on landscape sensitivity judgements alone. Capacity is a further stage of assessment that requires consideration of cumulative development, landscape objectives, and thresholds of acceptable change. Capacity should therefore be judged in the round, taking into account current national and local policy and need as well as landscape sensitivity and other constraints.
- 1.22 This sensitivity assessment is not an impact assessment and cannot therefore conclude what the exact impacts of a development on the landscape would be. **Table 1.2** below shows how Landscape Character Assessment (LCA), Landscape Sensitivity Assessment (LSA) and Landscape

and Visual Impact Assessment (LVIA) relate to each other and where this assessment sits in relation to these other types of study.

Table 1.2: Types of Landscape Study/ Assessment

	SCALE OF STUDY AREA				
SPECIFICITY OF PROPOSAL		Strategic level (regional)	District/ borough level	Sub-district level/ settlement edge	Specific site
	Inherent sensitivity (no proposal)	LCA ³ (identify key sensitivities/ valued attributes of LCAs)	LCA (identify key sensitivities/ valued attributes of LCAs)	LCA/LSA ⁴ (identify key sensitivities/ valued attributes of parcels)	LSA (identify key sensitivities/ valued attributes of a site)
	Sensitivity to the principal of a type of development (e.g. housing, wind energy, roads)	LSA (identify sensitivity of regional scale character areas to a type of development)	LSA (identify sensitivity of district/ borough level character areas to a type of development)	LSA (identify sensitivity of sub- LCA land parcels to a type of development)	LSA / baseline assessment for an LVIA (identify sensitivity of a site to a type of development)
	Sensitivity to a range of options associated with a development type (e.g. 500 houses, 1000 houses, 1500 houses)	LSA (identify sensitivity of regional scale character areas to different development options)	LSA (identify sensitivity of district scale character areas to different development options)	LSA (identify sensitivity of sub- LCA land parcels to different development options)	LSA/option appraisal (identify sensitivity of a site to different development options or identify potential effects of options)
	Sensitivity to a specific proposal (e.g. 250 houses in a defined area including known layout and supporting infrastructure)	LSA/ comparative site assessment (identify potential effects on different sites, perhaps for comparison purposes)	LSA/ comparative site assessment (identify potential effects on different sites, perhaps for comparison purposes)	LSA/ comparative site assessment (identify potential effects on different sites, perhaps for comparison purposes)	LVIA ⁵ (Identify potential effects)

Structure of this report

- 1.23 This report is set out as follows:
 - Section 1 presents an introduction and policy context.
 - **Section 2** presents the landscape character baseline which forms a spatial framework for the study, and highlighted areas of particular landscape value.

³ Landscape Character Assessment

⁴ Landscape Sensitivity Assessment

⁵ Landscape and Visual Impact Assessment

- **Section 3** presents the characteristics of the renewable energy related development that forms the focus on this study.
- **Section 4** presents the methodology and approach to the landscape sensitivity assessment, including the assessment criteria.
- **Section 5** summarises the results of the landscape sensitivity assessment.
- 1.24 The report is supported by the following appendices:
 - Appendix 1 presents the landscape sensitivity assessment 'profiles' by landscape type.
 - Appendix 2 presents the landscape sensitivity assessment 'profiles' for specific former airfield sites within the District.
 - Appendix 3 presents guidance for using the study and minimising harm to the landscape.

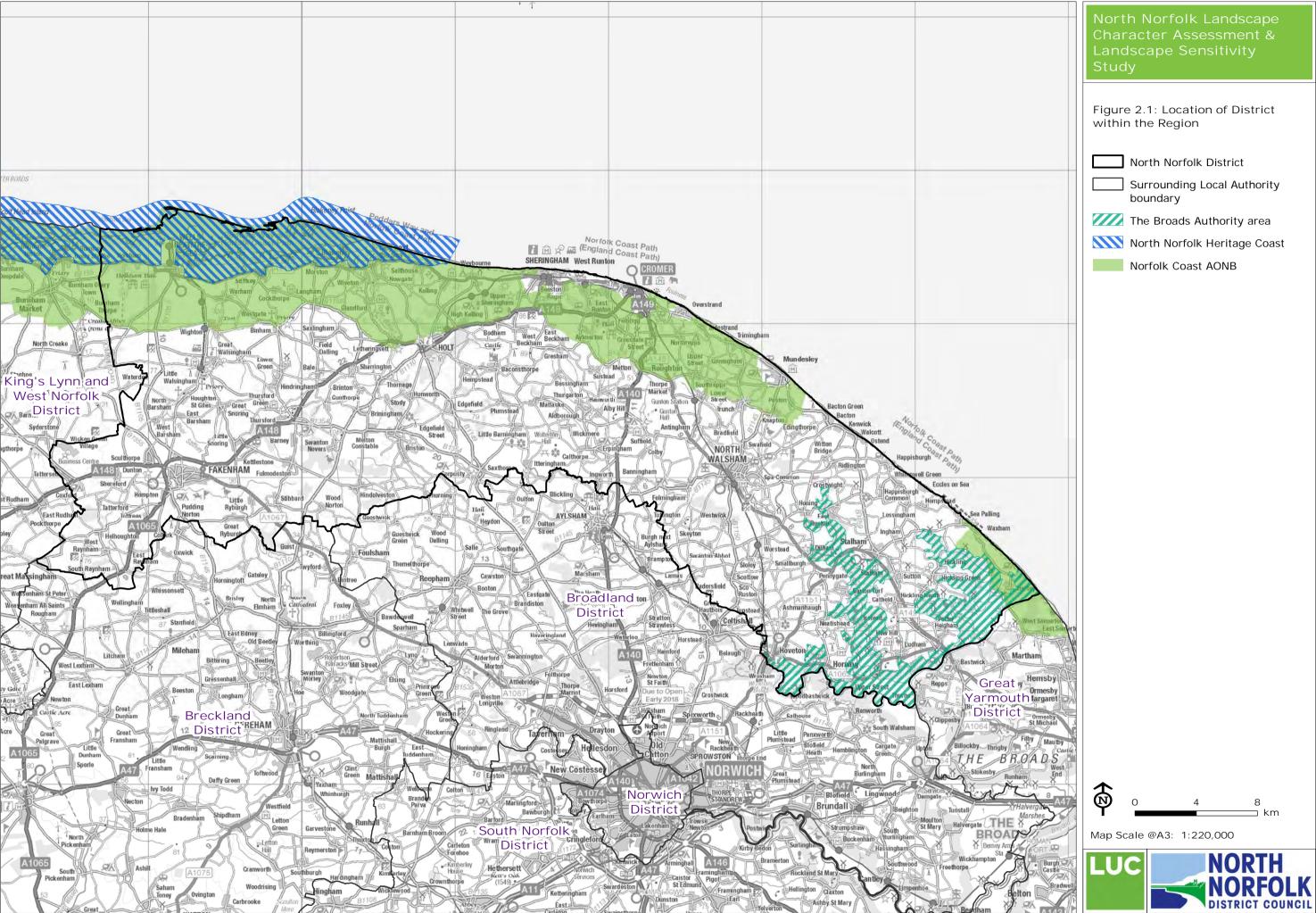


2 Understanding the Baseline Landscape

The Landscape of North Norfolk District

- 2.1 North Norfolk District covers an area of 87,040 hectares (340 square miles) (excluding the Broads Authority Executive Area), with a 73km (45 mile) North Sea coastline. The location of the District in the context of the East of England region and neighbouring authorities is shown in **Figure 2.1**.
- The main settlements in the District comprise seven towns (Cromer, Fakenham, Holt, North Walsham, Sheringham, Stalham and Wells-next-the-Sea) and three large villages (Briston / Melton Constable, Hoveton & Mundesley), which accommodate approximately half of the District's population (101,149 at the 2011 Census).
- 2.3 The District has a strongly rural character with agriculture, in particular arable farmland, comprising by far the largest component of land use. Much of the District is Grade 3 agricultural land, with large areas of Grade 1 and 2 land in the east.
- 2.4 The importance and value of the area's landscape has been recognised through national designations such as Area of Outstanding Natural Beauty and Heritage Coast. The eastern end of the District also adjoins The Broads, which has the status of a National Park.
- 2.5 The inter-tidal coastal area is of international importance for its biodiversity and geological features. The area also has a rich cultural heritage which is reflected in the high number of cultural heritage designations, along with inland areas that are particularly important for their habitats, flora or fauna and geodiversity, reflected through nature conservation designations.
- 2.6 The District's landscape character is defined in many areas by a strong sense of openness and rurality, which gives rise to long uninterrupted and expansive views over undeveloped skylines. At present, there is only one commercial scale on-shore wind turbine (i.e. larger than domestic turbines used for microgeneration⁶) within North Norfolk, at East Ruston (34.2m high, falling within the small-scale category see Chapter 3). However, the long and open views also allow intervisibility with turbines in neighbouring districts such as King's Lynn and West Norfolk, where existing clusters of large scale turbines are present as skyline features in many longer range views.
- Other existing renewable and low carbon developments within the North Norfolk landscape include a number of field-scale solar PV developments and anaerobic digestion plants, spread relatively evenly across the District, the characteristics of which are described in Chapter 3.
- 2.8 Offshore wind farms (e.g. Sheringham Shoal and Dudgeon) are also frequently present as features in coastal views along the majority of the District's coastline and have on-shore connections and cable routes transgressing the District.
- 2.9 Future additional large scale off shore wind farms (Vanguard and Orsted) are currently in the detailed planning stages, with North Norfolk District facilitating on-shore connections and cable routes.

⁶ The Government's Microgeneration Certification Scheme (MCS) covers systems up to 200m² swept area, or 45m blade tip height, although permitted development rights are limited to single turbines below 11.1m tip height (and which also meet other locational criteria, including not being within an AONB)



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CB:MNi EB:Nicholson_M LUC 10274_FIG2-1_ooddpThemedMaps_A3L_Landscape 05/10/2018

Source: BGS, Natural England, Environment Agency, NNDC

Landscape Character Baseline

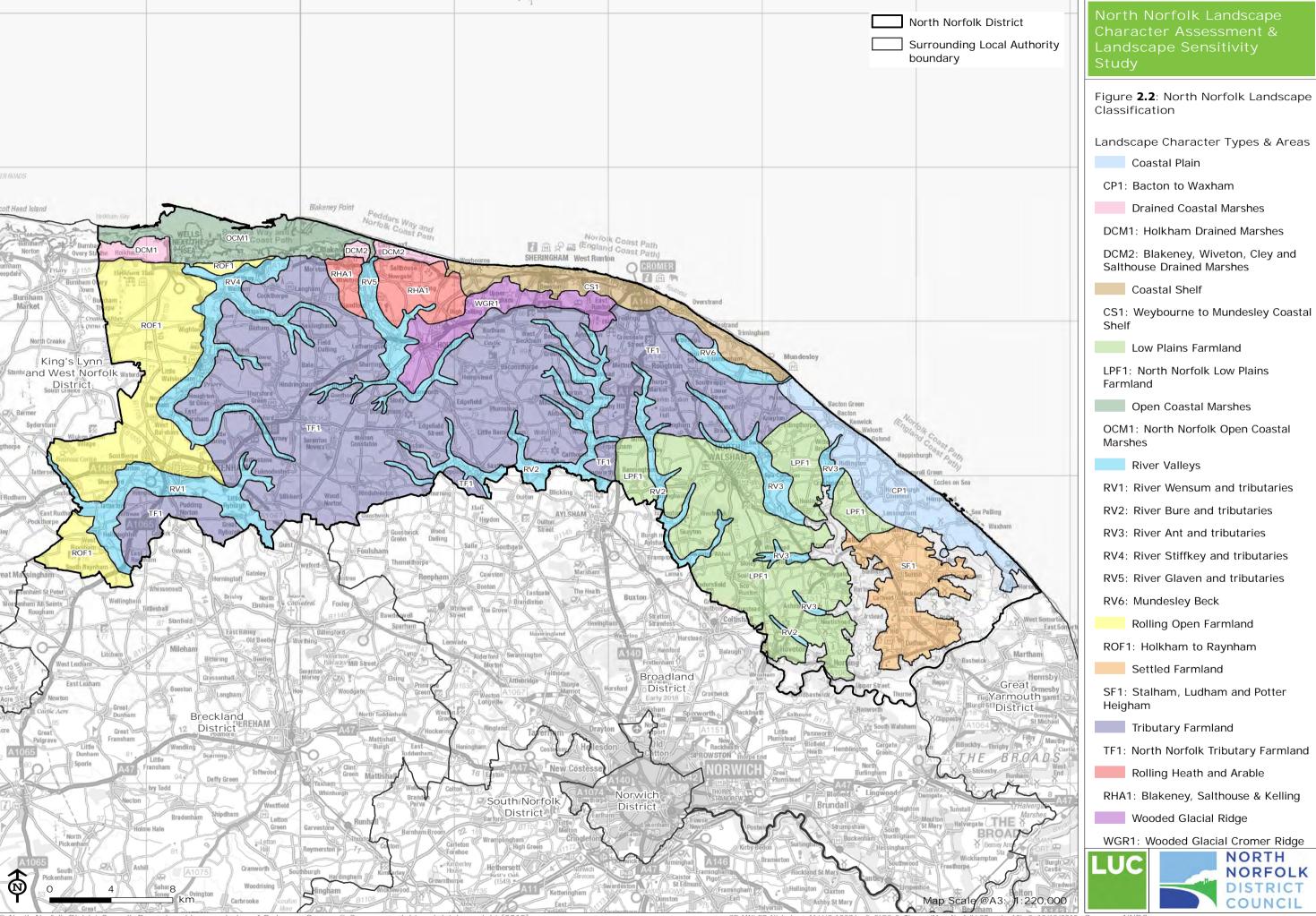
2.10 Landscape Character Types (LCTs) and Landscape Character Areas (LCAs) form the spatial framework and evidence base for this Landscape Sensitivity Assessment (see **Figure 2.2**).

North Norfolk Landscape Character Assessment (2018)

2.11 There are 11 Landscape Character Types (LCTs) falling within North Norfolk District, as identified in the recent Landscape Character Assessment (2018), listed in **Table 2.1** below. The district-level Landscape Character Assessment provides descriptive information for each of these LCTs, forming the primary evidence base for the assessments provided in Parts 2 and 3.

Table 2.1: Landscape Character Types and Areas in North Norfolk District

Ref	Туре	Area (s)
ROF	Rolling Open Farmland	ROF1 Holkham to Raynham
TF	Tributary Farmland	TF1 North Norfolk Tributary Farmland
LPF	Low Plains Farmland	LP1 North Norfolk Low Plains Farmland
RV	River Valleys	RV1 River Wensum and tributaries
		RV2 River Bure and tributaries
		RV3 River Ant and tributaries
		RV4 River Stiffkey and tributaries
		RV5 River Glaven and tributaries
		RV6 Mundesley Beck
SF	Settled Farmland	SF1 Stalham, Ludham and Potter Heigham
СР	Coastal Plain	CP1 Bacton to Waxham
cs	Coastal Shelf	CS1 Weybourne to Mundesley
WGR	Wooded Glacial Ridge	WGR1 Wooded Glacial Cromer Ridge
RHA	Rolling Heath and Arable	RHA1 Blakeney, Salthouse & Kelling
DCM	Drained Coastal Marshes	DCM1 Holkham Drained Marshes
		DCM2 Blakeney, Wiveton, Cley and Salthouse Drained Marshes
ОСМ	Open Coastal Marshes	OCM1 North Norfolk Open Coastal Marshes



Historic Landscape Characterisation for Norfolk

- 2.12 The Norfolk Historic Landscape Characterisation (HLC) project (2004-2008) identified and grouped historic and other environmental attributes to form historic landscape types of distinct and recognisable common character, the distribution of which was then mapped and supported by written descriptions of the individual landscape types and the historical processes that they represent.
- 2.13 **Figure 2.3** shows the distribution of HLC landscape types within the District. The main patterns of historic character include areas of historically large field sizes of a largely geometric shape in the western part of the District (18th 19th Century Enclosure), which have generally translated into modern intensive agriculture with relatively few hedgerow field boundary removals. This contrasts with a large central and eastern swathe of the District where open fields were enclosed at a much earlier date to create small, irregular fields which then experienced extensive hedgerow field boundary loss due to 20th Century agricultural intensification.

Landscape Value: Designations

- 2.14 Landscape value can be recognised through landscape designations, and the level of importance that they signify.
- 2.15 A significant proportion of the District (25%) is included within the nationally designated Norfolk Coast Area of Outstanding Natural Beauty (AONB) and the North Norfolk Heritage Coast. The eastern end of the District also adjoins The Broads, which has the status of a National Park. The location of these protected landscapes in the context of the District is shown in **Figure 2.1**, and a description of each is included below.

Norfolk Coast Area of Outstanding Natural Beauty (AONB)

- 2.16 The key statutory purpose of the designation of an area as an AONB is to conserve and enhance the natural beauty of a defined area. This duty is upheld in paragraph 172 of the NPPF, which requires that "great weight is given to conserving landscape and scenic beauty in an AONB/National Park/Broads".
- 2.17 A summary of the key qualities of natural beauty of the Norfolk coast (the special qualities), which underpin the AONB designation, as set out within the current AONB Management Plan (2014-2019), is provided below:
 - Dynamic character and geomorphology of the coast

Movement and interchange of internationally recognised geomorphological features and habitats.

· Strong and distinctive links between land and sea

The area's distinctive and unique character is based on the visual, ecological, socioeconomic and functional links between land and sea.

• Diversity and integrity of landscape, seascape and settlement character

Key quality is based on maintaining diversity of character types rather than uniformity across the area, including landscapes and seascapes, settlement pattern, building materials and styles.

Exceptionally important, varied and distinctive biodiversity, based on locally distinctive habitats

Recognised by a range of national and international designations. Coastal habitats are particularly important and most famous for birds, supporting iconic species. Inland habitats and species are also important, particularly lowland heath.

Nationally and internationally important geology

Mainly based on past glaciation and current coastal processes. Includes landforms and landscape scale features as well as individual sites.

Sense of remoteness, tranquillity and wildness

A low level of development and population density for lowland coastal England, leading to dark night skies and a general sense of remoteness and tranquillity away from busier roads and settlements and, particularly for undeveloped parts of the coast, of wildness.

 Richness of archaeological heritage and historic environment, particularly that relating to the coast and its character

Evidence and features of human use of the area since prehistoric times and links to current uses and features.

The Broads

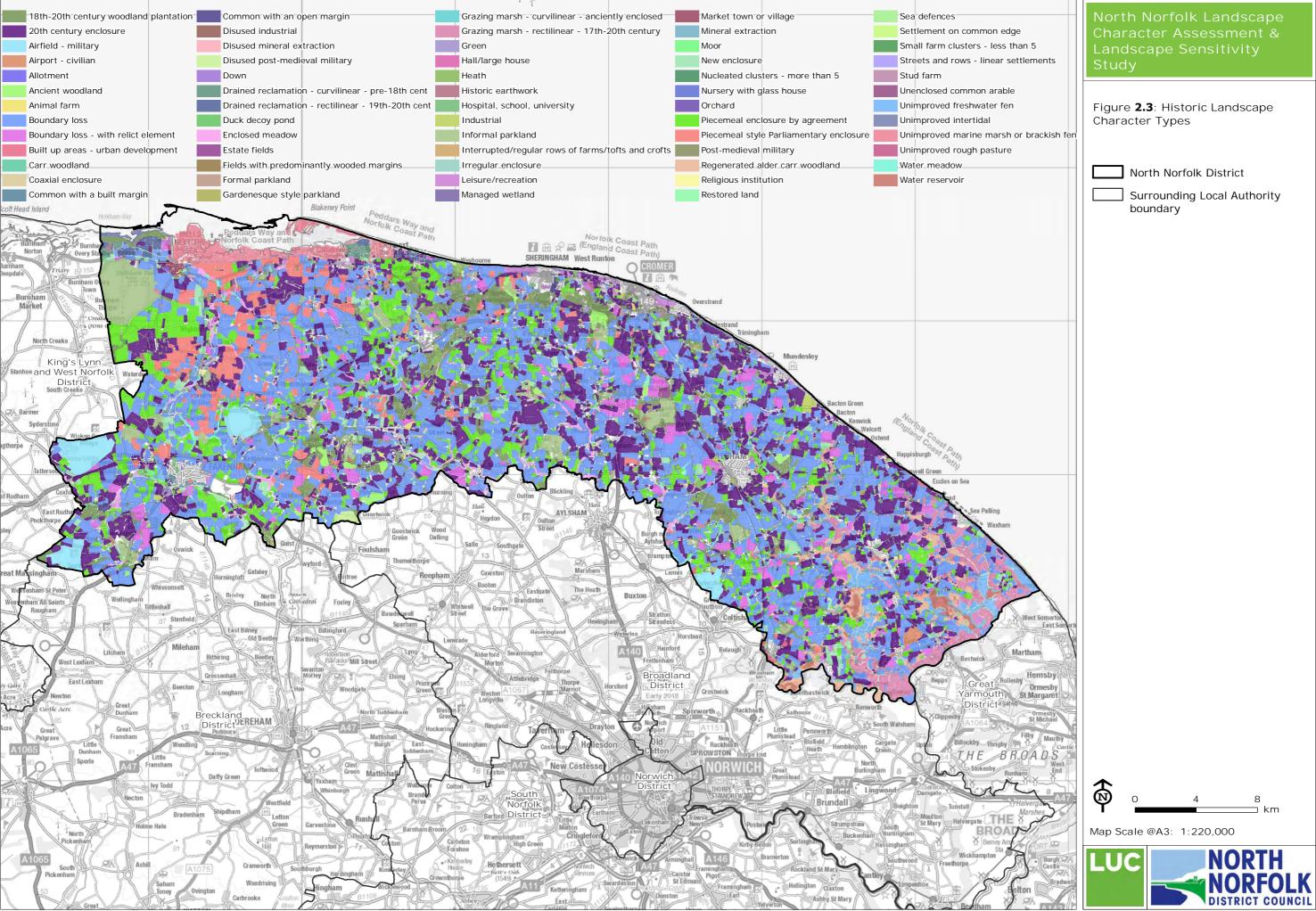
- 2.18 The Broads Authority was established by the Norfolk and Suffolk Broads Act 1998, which gave the area the equivalent status in law as a National Park. The Authority has a special duty to manage the Broads for the purposes of:
 - Conserving and enhancing the natural beauty, wildlife and cultural heritage of the Broads;
 - Promoting opportunities for the understanding and enjoyment of the special qualities of the Broads by the public; and
 - Protecting the interests of navigation.
- 2.19 The Broads is considered the UK's premier wetland, and contains a mosaic of habitats that gives the area a high conservation value, recognised through the designation of eight National Nature Reserves, 28 Sites of Special Scientific Interest and 18 Special Areas of Conservation.

North Norfolk Heritage Coast

- 2.20 The North Norfolk Heritage Coast was defined in 1975 in order to conserve one of the best stretches of undeveloped coast in England. The purpose of establishing Heritage Coasts (of which North Norfolk is one of 32 in England) is to conserve, protect and enhance:
 - the natural beauty of the coastline;
 - their terrestrial, coastal and marine flora and fauna;
 - their heritage features;
 - encourage and help the public to enjoy, understand and appreciate these areas;
 - maintain and improve the health of inshore waters affecting heritage coasts and their beaches through appropriate environmental management measures;
 - take account of the needs of agriculture, forestry and fishing and the economic and social needs of the small communities on these coasts

Undeveloped Coast

2.21 The whole of the coast has a special undeveloped character and appeal which is critical to North Norfolk's distinctiveness and tourism economy. The purpose of the Undeveloped Coast designation as defined within the North Norfolk Local Plan is to protect the distinctive landscape, biodiversity and recreational features of this part of the District. This defined area is one of the data sources that has informed the assessment criterion relating to "Sense of tranquillity, remoteness and rurality and current level of human influence/development".



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Source: BGS, Natural England, Environment Agency, NNDC

Other indicators of landscape value

2.22 The Guidelines for Landscape and Visual Impact Assessment 3rd Edition (GLVIA 3) indicate that there should not be over-reliance on designations as the sole indicator of value, and it is widely accepted that an absence of designation does not mean an absence of landscape value. Indicators of landscape value can include landscape quality (condition), scenic quality, rarity, representativeness, conservation interests, recreation value, perceptual aspects and artistic/literary associations. It is therefore worth considering how these are represented in North Norfolk.

Landscape quality (condition, or intactness)

2.23 Landscape quality varies throughout the District. Although areas of highest intactness tend to be within the existing designated landscapes, there are pockets of high quality landscape throughout the District, including outside of the designated areas, that are valued.

Scenic quality

2.24 Scenic quality is best represented through the designated areas, and particularly the AONB and Heritage Coast which are designated for their natural beauty. However, outside these designations there are areas of scenic quality where combinations of landscape elements appeal to the visual senses.

Rarity

2.25 Rarity relates to the presence of rare elements or features in the landscape, or a rare landscape character / historic landscape character type. In North Norfolk District this includes the rare arable plants thriving in pockets of North Norfolk farmland, the many designated sites and nature reserves, home to many rare and protected species (such as the extensive natural and semi-natural habitats including coastal saltmarsh, coastal sand dunes, mud flats and ancient woodland), and rare pre-18th century co-axial agricultural enclosures.

Representativeness

2.26 Representativeness relates to whether the landscape contains a particular character and / or features which are considered particularly important examples. In North Norfolk District there are many coastal habitats that are important examples of that type of landscape.

Nature conservation & cultural heritage interests

- 2.27 The presence of features of wildlife, earth science, archaeological or historical and cultural interest can add to the value of the landscape as well as having value in their own right.
- 2.28 The high wildlife value of much of the District's coastal and inland habitats is recognised by a range of statutory international and national designations, including Special Protection Areas, Special Areas of Conservation, Ramsar sites, Sites of Special Scientific Interest and National Nature Reserves.
- 2.29 A number of geological SSSIs are also present, reflecting the value of the District's geodiversity, notably along extensive stretches of coastal cliffs and shoreline, and some inland quarry sites.
- 2.30 North Norfolk contains a rich diversity of cultural heritage features and designations, including a number of historic parks and gardens on Historic England's register, relatively evenly spread across the District, which make important and distinctive contributions to the value of the landscape. Examples include the Grade I registered park of Holkham Hall, which is one of the principal designed landscape parks in England. The extensive historic landholdings of the wider Holkham Estate have had a significant influence on the development and character of the surrounding landscape. The Grade II* parklands of Sheringham Hall, Felbrigg Hall, Melton Constable Hall and Honing Hall, along with other registered landscapes all add significance to the landscape of the District. Many scheduled monuments, 81 conservation areas and 2200 statutorily listed buildings are also present throughout the area.

Recreational value

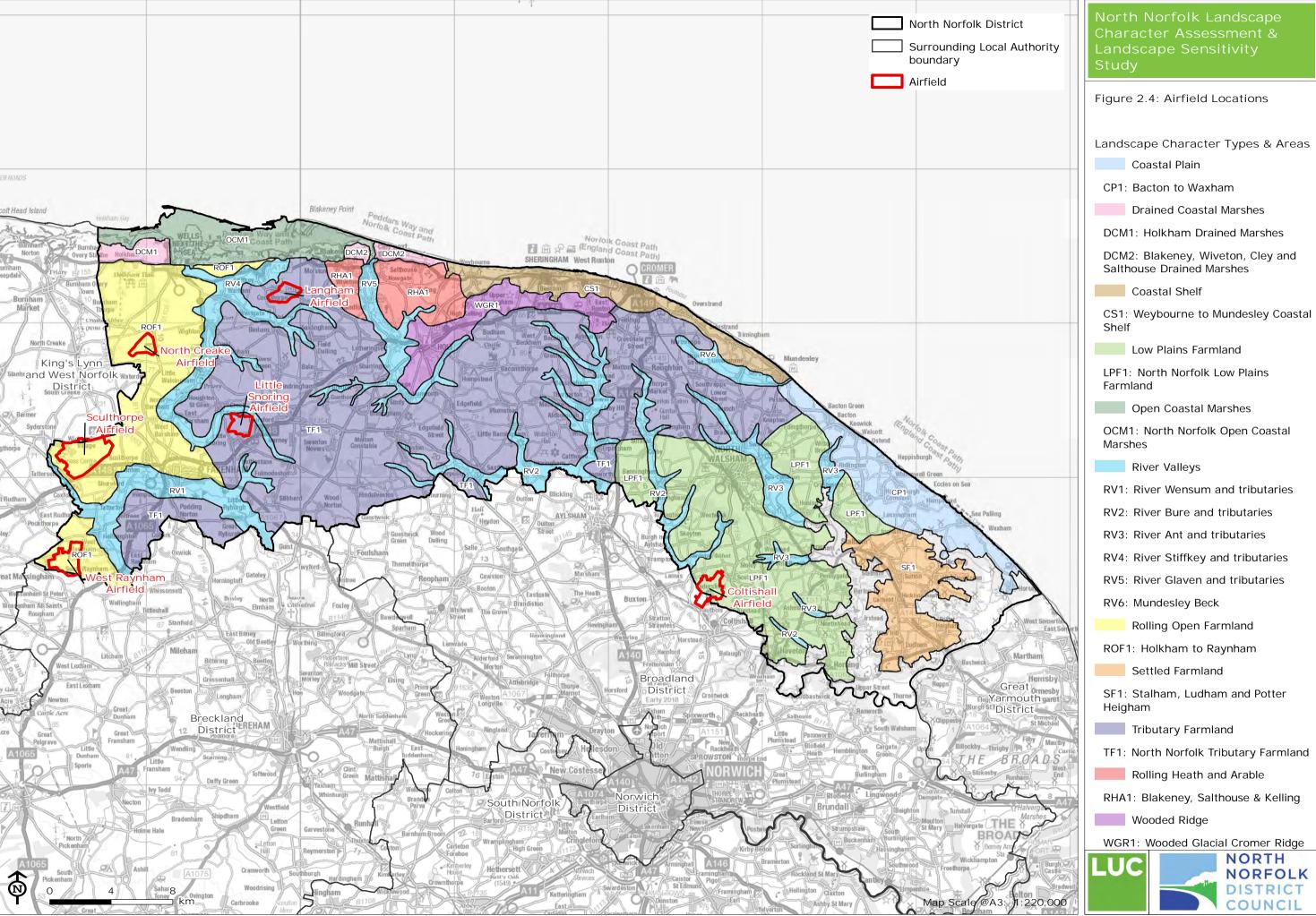
2.31 This relates to evidence that the landscape is valued for recreational activity where experience of the landscape is important. North Norfolk's coastline in particular is a focus for recreational activity as a result of the natural beauty of the landscape and biodiversity of the varied habitats. The Norfolk Coast Path National Trail follows the entirety of the District's coastline, linking with the Peddars Way in the west and is valued by recreational users. Many coastal areas also have open access. However, it is not just the coastline that is valued for recreation. Areas of heathland and woodland also have open access and a well-used network of Rights of Way traverses the whole District.

Literary / artistic associations

- 2.32 The North Norfolk landscape has inspired poetry by the likes of John Betjeman: 'Norfolk' (1954) which references the River Bure; and 'Lord Cozens Hardy' which references Letheringsett.
- 2.33 First published in 1815, Jane Austen's famous novel, Emma, makes mention of one of North Norfolk's coastal towns when Emma's father, Mr Woodhouse advises his daughter on seabathing in chapter 12 "You should have gone to Cromer my dear, if you went anywhere. Perry was a week at Cromer once, and he holds it to be the best of all the sea-bathing places."
- 2.34 In 1901 Sir Arthur Conan Doyle took a trip to Cromer Hall which is believed to have been the inspiration for Baskerville Hall in his famous Sherlock Holmes novel, The Hound of the Baskervilles.
- 2.35 W H Auden was educated at Gresham's School near Holt. He described his time at Gresham's in a compilation of Graham Greene, entitled The Old School (1934) "No dogs barked in the street below, the churchyard where they dug his grave, the day wore nothing strange to show, the earth took back the dust she gave, and the cuckoos they were calling still when had left him in the hill."
- 2.36 Agatha Christie spent time at the Beechwood Hotel in North Walsham between 1936 and 1939 and this may be the setting for some of her writing.
- 2.37 Oscar Wilde stayed in Cromer at the Hotel de Paris in 1892 for a period of time, advised by his doctor to take in the 'pure air'. He also rented a farmhouse nearby where he supposedly wrote A Woman of No Importance.
- 2.38 The District's landscape, including its coastline, churches and heaths, has been depicted by many renowned artists, including John Sell Cotman (1782-1842) and John Crome (1768-1821), founding members of the Norwich School of artists, and Sheringham fisherman, John Craske (1881-1943).
- 2.39 The District's historic estates also have strong associations with eminent 18th & 19th Century landscape designers Lancelot 'Capability' Brown and Humphry Repton, who influenced and designed many parklands such as Holkham Hall, Sheringham Hall, Barningham Hall, Melton Constable Hall, Honing Hall, Hoveton Hall and Felbrigg Hall.

Airfields

- 2.40 The District contains a large number of former RAF airfields, which typically occupy flatter areas of elevated land and include a range of associated infrastructure and built form such as runways, hangars, control towers, housing and extensive hard-standings; some of which still survive.
- 2.41 Whilst typically sited in rural and relatively remote locations, parts could be considered as previously developed land where built form and infrastructure remains and the land has not reverted back to agriculture.
- 2.42 A number of these airfields contain operational large-scale solar PV developments, including West Raynham (96.5ha), Coltishall (122.8ha) and North Creake (42ha).
- 2.43 This study includes an assessment of the landscape sensitivity of six former airfield sites to a range of renewable energy developments. The location of the airfields is shown in **Figure 2.4**.





3 Characteristics of Development Types and Potential Impact on Landscape

3.1 In order to develop a method for assessing landscape sensitivity to renewable energy related development and infrastructure it is important to understand the characteristics of these developments and how they may affect the landscape.

Wind energy development

3.2 The key components of wind energy development are the wind turbines, which may be grouped together into a 'wind farm'. The majority of wind turbines consist of horizontal axis three-bladed turbines on a steel tower (as shown in the photo below).



Figure 3.1: A cluster of large-scale wind turbines (hub height 80m) at the Jacks Lane windfarm in King's Lynn and West Norfolk District, viewed from near Great Snoring (approximately 10km distant)

- 3.3 Other turbines are available including two bladed turbines and vertical axis turbines. All forms of turbine are usually given planning permission for 25 years, although re-powering may take place after this period has elapsed.
- 3.4 The main visible components of a wind turbine consist of the tower, nacelle and rotor blade system. Depending on the scale and design of the turbine, the transformer may be located inside or outside the tower. The tower itself sits on a buried concrete foundation. Access tracks are also required to get the turbines to site. The size of these tracks will vary with the size of turbine and will remain during the operation of the wind farm, although they can be narrowed during operation.
- 3.5 Some turbines may need to be lit at night for aviation safety reasons, although it is possible to use infra-red lighting in sensitive areas so the assumption can be that they are unlit.

- 3.6 For the purposes of this study, the following sizes of wind turbines have been considered as these are typical size categories that have, or are likely to, come forward based on planning applications and sizes of turbine that are being manufactured:
 - Small scale wind turbines with a hub height of up to 30m, which translates to a height to the tip of the blade of up to approximately 45m.
 - Medium scale wind turbines with a hub height of between 30-60m, which translates to a height to the tip of the blade of up to approximately 100m.
 - Large scale turbines with a hub height of between 60-80m, which translates to a height to the tip of the blade of up to approximately 130m.



Figure 3.2: Small scale wind turbine (overall height to blade tip approximately 34.2m) within the North Norfolk landscape at East Ruston

- 3.7 All of these wind turbines are substantial vertical structures that may be highly visible within the landscape. The movement of the blades is a unique feature of wind energy developments, setting them apart from other stationary tall structures in the landscape. Wind energy development may affect the landscape in the following ways:
 - Construction of turbines and associated infrastructure may result in direct loss of landscape features, e.g. trees and hedgerows;
 - Movement of rotor blades is a unique feature of wind energy development and may affect characteristics of stillness, remoteness and solitude - larger models have slower rotor speeds than smaller models;
 - The presence of turbines may increase the influence of built development on the landscape
 this may be the case for scattered single turbines as well as for wind farms;
 - Turbines (particularly larger models) may be perceived as out of scale in relation to human scale features in the landscape, e.g. farmsteads, rural lanes, walls, fences and hedgerows;
 - Turbines on skylines may compete with existing landmark features (e.g. church towers) for prominence where prominent undeveloped skylines or landmark features are characteristic of the landscape (particularly larger scale turbines).
 - Access tracks may be highly visible, particularly in open upland landscapes or undeveloped landscapes that currently may not contain tracks.
 - Ancillary buildings and security requirements (such as fencing) may introduce new features into the landscape.

- Road upgrades on access routes may alter the character of rural roads.
- 3.8 'Shadow flicker' only theoretically occurs within ten rotor diameters of a turbine5 under specific conditions and is therefore a specific residential amenity issue rather than a landscape character issue, and so falls outside the remit of this study.

Cumulative issues

3.9 As larger numbers of wind turbines are built, it is increasingly necessary to consider their cumulative effects. Key considerations are: how different developments relate to each other, their frequency as one moves through the landscape, and their visual separation.

Field-scale solar PV development

3.10 Field-scale solar PV developments comprise arrays of photovoltaic panels, mounted on linear racks up to 3m high. These are usually positioned at a fixed angle of 20-40 degrees from the horizontal, facing south, and sited in parallel rows with gaps between the rows for access and to prevent shading of adjacent rows. The actual arrangement of the arrays within the landscape varies from scheme-to-scheme (i.e. regular layouts versus more varied and irregular, depending on the site situation). Generally though, layouts of the solar arrays tend to be in regular patterns.



Figure 3.3: Very large scale solar PV development at West Raynham airfield, North Norfolk

- 3.11 The solar arrays are often accompanied by on-site inverter buildings, security fencing and CCTV cameras. They tend not to be lit at night.
- 3.12 This study considers field-scale solar PV developments above 5MW capacity. Within the majority of the North Norfolk landscape, solar PV development above 5MW capacity is unlikely to be contained within a single field, and will therefore translate to a multi-field system.
- 3.13 As a guide, a 5MW capacity solar PV development would typically occupy a site area of 10 15 hectares (25 37 acres) while a 10MW PV development would occupy an area of 20 30 hectares, and a 20MW development 40 60 hectares. At the extreme upper end of the

spectrum, very large solar PV developments on former airfields could occupy a site area of up to or exceeding 100 hectares⁷ (capacity approximately 50MW).



Figure 3.4: A 10MW solar PV development occupying a 27 ha site in Northrepps, North Norfolk

- Panels can appear dark in colour as a result of their non-reflective coating and absorption of light. Some have been likened to poly tunnels when viewed from certain angles while other have been likened to areas of standing water (i.e. reservoirs or lakes) when viewed from certain angles and from a distance. The panels may also be seen from behind (back of the panels) or from the side (down the rows of frames) which will also influence how they are perceived.
- 3.15 Apart from the panels, other features of these developments can include inverters to convert the electricity from DC to AC which may be housed within new or existing buildings, transformer and underground power cables to transfer the electricity to the National Grid, an on-site power house (usually a Portacabin with a concrete base), security fencing up to 2.5 metres in height required for insurance purposes and possibly CCTV for security reasons.
- 3.16 Solar PV developments, although not prominent in terms of height, can occupy substantial areas of ground which may be visible, particularly if located on slopes. Landscape effects may include the following:
 - As extensive developments, field-scale solar PV developments may be particularly visible in open landscapes or on upper slopes of hillsides or where overlooked, especially where covering significant areas.
 - On a sunny day they can appear blue while on a cloudy day they can appear a dark grey, both of which contrast with surrounding green areas.
 - The presence of PV panels and associated infrastructure may increase the perceived human influence on the landscape and change land cover patterns of rural landscapes.
 - Solar PV developments will change the land use and appearance of a field or fields, affecting land cover patterns.
 - The regular edges of solar PV developments may be conspicuous in more irregular landscapes (particularly where they do not follow contours or where field boundaries are irregular in form).

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⁷ These figures are based on existing operational solar PV developments within North Norfolk – Source: North Norfolk District Council

- The height of racks (up to 3m) means that they may overtop typical hedgerow / hedgebank field boundaries.
- Screen planting around solar PV development can change the sense of enclosure of a landscape (NB some changes in management, such as allowing hedges to grow out, may enhance diversity and local landscape character resulting in positive change as long as native species appropriate to the area are used).
- Construction of the solar PV development may result in damage to landscape features such as hedgerow field boundaries and alter the landscape scale.
- Conversely, mitigation for a PV development can include large scale planting schemes which can enhance the biodiversity of a field and diversify the local habitats.
- Structures may appear out of place in particularly wild or undeveloped landscapes which are valued for their qualities of remoteness.
- Ancillary buildings and security requirements (such as fencing and/or CCTV) may introduce new and unfamiliar features into the landscape, increasing the perceived human influence on the landscape and erode the intrinsically rural character.
- Field-scale solar PV schemes can take fertile agricultural land out of production for many years.

Cumulative issues

3.17 As larger numbers of solar farms are built, it is increasingly necessary to consider their cumulative effects. Key considerations are: how different developments relate to each other, their frequency as one moves through the landscape, and their visual separation.

Onshore cable routes (for offshore wind farms)

- 3.18 These are underground cable routes between the point at which offshore wind farm electricity cables make landfall on the coast, and an inland location where this power can be transferred to the national grid via a substation. Due to the linear nature of cable routes, running between the coast and the inland substation location, they typically traverse more than one, or even several, landscape character types/areas (e.g. the onshore cable corridor for the proposed Vanguard offshore wind farm, which would traverse four landscape character areas within North Norfolk District).
- 3.19 Two types of cable are available: those carrying high voltage alternating current (HVAC), and those carrying high voltage direct current (HVDC). HVDC systems are a newer technology which becomes more viable over longer transmission distances.
- 3.20 Underground cable corridors can be installed via either open cut trenching or horizontal directional drilling (HDD) for shorter distances, which does not require a trench. HDD is typically used for only the most sensitive areas, such as woodland and watercourses.
- 3.21 Depending on the size of the windfarm, either several trenches or a single, larger trench may be required, which could typically be up to 2m deep and 2m wide, containing the electricity cables within HDPE plastic ducts. The total cable corridor width (cable trench(es) plus wider temporary construction/access/maintenance zone) for installing HVAC cables is typically greater than for HVDC, but the width of land that would need to be cleared of vegetation to facilitate construction will typically fall within a range of 30-100m.
- 3.22 Following completion of trenching and laying of cable routes, permanent residual effects on the landscape include inspection chambers for cable jointing bays and marker posts indicating the location of the cable routes.
- 3.23 Cable trenches may affect the landscape in the following ways:
 - Laying of the cable can result in direct loss of landscape features along the route (such as introducing gaps into hedgerows) and disturbance to ground over long distances;

- The temporary trench can be visible over long distances, particularly if it is located in an elevated position or on steep slopes;
- The construction activities can affect characteristics of stillness, remoteness and solitude although this is temporary;
- Post-construction the recovering vegetation can produce scarring of the landscape the time taken for vegetation to recover will depend on the type of landcover and standards of post-construction maintenance. Soil compaction on clay soils can result in long term drainage issues potentially affecting productivity.



Figure 3.5: Cable trench for the Dudgeon offshore wind farm near Stanfield, Norfolk

Cumulative issues

3.24 Cumulative issues are not considered to be as relevant to this development type as the impacts tend to be temporary. However, in areas of sensitive landcover (naturalistic areas) where recovery takes long, multiple trenches could have an adverse cumulative effect.

Substations and cable relay stations (for offshore wind farms)

- 3.25 Onshore infrastructure required to connect offshore windfarms to the electricity grid network includes substations (required for both HVAC and HVDC systems) and cable relay stations (not required for HVDC but often required for HVAC systems, depending on the length of the cable route).
- 3.26 Typical components of an electrical substation, where the onshore underground cable route connects to the national grid, include a secure outdoor compound containing switch gear and control room buildings and outdoor electrical equipment including shunt reactors and harmonic filters. The substation for the Sheringham Shoal offshore windfarm, pictured below, includes a building approximately 8m in height and electrical equipment approximately 7m in height, and occupies a site area (excluding access road) of approximately 0.7 hectares.
- 3.27 Cable relay stations are required in order to increase the power transfer capability of HVAC cables. They are similar to substations, comprising an outdoor compound containing reactors

and switchgear. For the larger windfarms they can be large scale developments, occupying up to 10 hectares with several buildings and structures up to 18 m in height.

- 3.28 Landscape effects may include the following:
 - Direct loss of landscape features in areas to be developed;
 - The bulky industrial style structures can increase human influence and industrial character which may be particularly at odds in naturalistic or wild landscapes;
 - Vehicle movements, ancillary activities/storage, and flood lighting associated with these developments can also increase human influence in naturalistic or rural landscapes.



Figure 3.6: Substation for the Sheringham Shoal offshore windfarm near Salle, Broadland District

Cumulative issues

3.29 As larger numbers of substations and cable relay stations are built, it is increasingly necessary to consider their cumulative effects.

Commercial battery storage

- 3.30 Commercial battery storage developments comprise individual battery units (which may be free-standing units or stored within steel shipping containers) and associated inverters (which convert DC battery power to AC grid power), transformers (transferring power between the grid and the batteries) and switchgear/control room building/cabin (up to 5m in height), all within a fenced compound which may require ground levelling.
- 3.31 They are increasingly being proposed in conjunction with solar PV developments and commercial wind turbines / farms, as they enable excess power generated to be stored and transferred back to the grid, improving the economic viability of solar farms in the absence of Government subsidies.
- 3.32 Battery storage can also help National Grid maintain frequency levels and stability/reliability of electricity supply on the UK transmission network, as excess electricity generated from a variety of renewable and conventional power sources can be stored in the batteries during times of low demand, and then fed back into the grid at times of peak demand.
- 3.33 The scale of commercial battery storage schemes is highly variable, depending on the required storage capacity, as the individual battery packs are relatively small and therefore flexible in

terms of siting. A typical site area for a 50MW capacity system is likely to be around 1 hectare, depending on the battery technology used.

- 3.34 Landscape effects may include the following:
 - Direct loss of landscape features in areas to be developed;
 - The bulky industrial style structures can increase human influence and industrial character;
 - Vehicle movements, ancillary activities/storage, and flood lighting associated with these developments can also increase human influence in naturalistic or rural landscapes.



Figure 3.7: A view of the recently constructed Glassenbury battery storage compound in Kent (centre, background of image), which occupies a site area of 0.9 ha and features buildings/equipment up to 5m in height

Cumulative issues

3.35 As larger numbers of battery storage facilities are built, it is increasingly necessary to consider their cumulative effects. The storage facilities may also result in cumulative effects in combination with solar farms.

Anaerobic digestion (AD) plants

- 3.36 Anaerobic digestion (AD) plants can be classified into two general categories: those that process predominantly agricultural feedstock (such as manures, slurries, crops and crop residues); and those that use predominantly municipal, commercial and industrial waste streams as feedstock. The biogas produced can either be burned on-site to generate heat and/or power (Combined Heat and Power CHP); or upgraded to biomethane for injection into the national gas grid.
- 3.37 The built form relating to AD plants generally comprises a series of circular fermentation tanks, which can be inflatable, and associated buildings / ancillary structures including gas to grid processing units, CHP units, control buildings and feedstock storage. The scale of these structures can vary, with the example above (at Egmere) featuring tanks up to 12.8m in height.
- 3.38 The total site area of AD plants currently operational within North Norfolk varies from around 2.5 hectares to approximately 8 hectares.
- 3.39 Landscape effects may include the following:

- Direct loss of landscape features in areas to be developed;
- The bulky industrial style structures can increase human influence and industrial character;
- Vehicle movements, ancillary activities/storage, and flood lighting associated with these developments can also increase human influence in naturalistic or rural landscapes.



Figure 3.8: Existing AD plant at Egmere, with feedstock storage mound in right of image.

Cumulative issues

3.40 As larger numbers of AD plants are built, it is increasingly necessary to consider their cumulative effects.

Reservoirs

- 3.41 There are a number of existing agricultural water storage reservoirs for irrigation within the North Norfolk landscape. These are typically off-stream structures that receive no natural water inflow apart from rainfall. With the exception of sites with clay sub-soil (very limited in North Norfolk), these reservoirs require butyl rubber linings.
- 3.42 Surrounding the water body are earth embankments, constructed from the excavated material removed to create the reservoir, which can be several metres in height above the prevailing ground level. Depending on the existing landform, embankments may not be needed on all sides of a reservoir. The profile of the embankments can vary, with shallow outside profiles potentially creating a lesser visual impact by integrating more gently into the surrounding land, but requiring a greater land area. A typical bank may have a gradient of around 1(high):3(wide), with a typical height above the existing ground level of between 2 4 metres. Variation in slope profile has the potential to diversify the surrounding habitat.
- 3.43 Existing irrigation reservoirs in North Norfolk typically occupy a site area (including embankments) of between 2 5 hectares.



Figure 3.9: Reservoir at Holkham (total area approx 5 ha), showing grassed embankments and rubber lining.

- 3.44 Landscape effects may include the following:
 - Development of reservoirs could result in direct loss of landscape features within the development footprint;
 - Reservoirs, especially those with engineered steep banks, introduce man-made elements to the landscape and can affect naturalistic and undeveloped qualities of more remote landscapes;
 - This type of development may be particularly visible in open landscapes, or where overlooked from higher ground;
 - On a sunny day reflected light from water can enhance visibility of these features and affect patterns of land cover.

Cumulative issues

3.45 As larger numbers of reservoirs are built, it is increasingly necessary to consider their cumulative effects.



4 Methodology for the Landscape Sensitivity Assessment

Spatial Framework

4.1 As explained in Chapter 2, North Norfolk's Landscape Character Types (LCTs) form the spatial framework and evidence base for this Landscape Sensitivity Assessment. Six individual airfields have also been selected to assess separately.

Developments assessed

4.2 Landscape sensitivity is assessed for all the types of development set out in Chapter 3. In the case of wind turbines the assessment considers sensitivity to the presence of that general size of turbine without being specific about numbers of turbines. Any information about cumulative impact is given as part of the guidance in Section 6.

Approach to assessing sensitivity

- 4.3 There is currently no accepted method for evaluating the sensitivity of different types of landscape to development. However, the approach taken in this study builds on LUC's considerable experience from studies of a similar nature as well as the guidance set out in the following documents:
 - Landscape Character Assessment Guidance for England and Scotland Topic Paper 6: Techniques and Criteria for Judging Capacity and Sensitivity (2004) Scottish Natural Heritage, Countryside Agency (currently under review);
 - Guidelines for Landscape and Visual Impact Assessment 3rd Edition (GLVIA 3), (2013) The Landscape Institute, Institute for Environmental Management and Assessment (IEMA);
 - An Approach to Landscape Character Assessment, (2014) Natural England.
- 4.4 Both Topic Paper 6 and GLVIA 3 advocate the use of professional judgement and an understanding of landscape character to understand what makes one landscape more or less sensitive than another to particular forms of development. Key to this is an understanding of which aspects of the landscape are particularly susceptible to the type of development proposed. These include both physical and perceptual characteristics.
- 4.5 Paragraph 4.2 of Topic Paper 6 states that:
 - 'Judging landscape character sensitivity requires professional judgement about the degree to which the landscape in question is robust, in that it is able to accommodate change without adverse impacts on character. This involves making decisions about whether or not significant characteristic elements of the landscape will be liable to loss... and whether important aesthetic aspects of character will be liable to change'.
- 4.6 GLVIA 3 suggests that sensitivity combines judgements of the susceptibility of a receptor to change and the value related to that receptor. Although GLVIA3 is focussed on individual development proposals, the same principle can be applied to identifying landscape sensitivity as part of strategic landscape planning studies.
- 4.7 In this study **landscape sensitivity** is a judgement based on:
 - Landscape susceptibility the extent to which the landscape can accommodate change of a particular type or nature without undue negative consequences;

- Landscape value the relative value that is attached to different landscapes by society⁸.
- 4.8 In this study the following definition of sensitivity has been used:
 - Landscape sensitivity is the extent to which the character of the landscape is susceptible to change as a result of introducing a particular type of development type into a landscape character area, in principle, and the value attached to that landscape.
- 4.9 It should be noted that the sensitivity evaluation cannot be used as a definitive statement on the suitability of a certain location for a particular development. All applications for development will need to be assessed on their individual merits through the planning process.

Assessment Criteria

4.10 This landscape sensitivity assessment is based on an assessment of landscape character using carefully defined criteria which reflect different attributes of the landscape that can potentially be affected by each development type. Reflecting the two core components of landscape sensitivity, the assessment criteria are subdivided into those relating to **susceptibility** and those relating to **value**, and are set out in **Tables 4.1 – 4.5** below.

Susceptibility criteria

- 4.11 The susceptibility criteria are focussed on those aspects of the landscape that have a bearing on sensitivity to renewable energy types. Information about landscape character has been drawn from the updated North Norfolk Landscape Character Assessment, and checked in the field.
- 4.12 The tables below set out assessment criteria for each renewable energy type, and indicate attributes that suggest higher or lower sensitivity.

Value criteria

4.13 GLVIA 3 states that the value of landscape receptors will to some degree reflect landscape designations and the level of importance that they signify, although there should not be over-reliance on designations as the sole indicator of value. Box 5.1 on Page 84 of GLVIA 3 sets out the range of factors that can help in the identification of relative landscape value and these have been used, alongside landscape designations, to help define the value criteria for the sensitivity assessment. The Valued Features and Qualities identified in the North Norfolk Landscape Character Assessment have provided the essential information to inform judgements for each of the value criteria.

⁸ These definitions are taken from the Glossary in the 3rd Edition Guidelines for Landscape and Visual Impact Assessment (GLVIA3).

Wind Energy Development

Table 4.1: Sensitivity assessment criteria and definitions in relation to Wind Energy Development

Criteria

Indications of relatively higher or lower landscape sensitivity

Susceptibility Criteria

Topography and skylines

Flat and uniform landscapes, smooth, gently undulating lowland landscapes or larger plateau areas are likely to be less sensitive to wind energy development than a landscape with a dramatic or complex landform or distinct landform features, such as ridges or valleys, that contribute more strongly to landscape character, and which may be obscured by or require more extensive modification to accommodate new development.

Prominent and distinctive and/or undeveloped skylines, or skylines with important landmark features, are likely to be more sensitive to wind energy development because turbines may compete with/detract from these skylines as features in the landscape.

Important landmark features on the skyline might include historic features or monuments, such as church towers/spires or vernacular villages.

Data Sources:

North Norfolk Landscape Character Assessment; Field survey; OS mapping showing contours.

Some indicators of lower sensitivity

· Flat and uniform landform

- Plateau areas (of sufficient size to allow turbines to be sited without significant skyline impact on surrounding landscapes)
- Simple, featureless landform
- Non-prominent skylines

Some indicators of higher sensitivity

- Irregular or complex landform
- Narrow valleys with pronounced slopes
- Distinct landform features, e.g. ridges, plateau edges or distinctive glacial features such as eskers
- Landmark (historic) skyline features

Landcover

Landscapes containing extensive and consistent landcover patterns are likely to have a lower sensitivity to wind energy development, compared to landscapes with complex landcover patterns.

Man-made surfaces or brownfield sites are likely to have lower sensitivity while naturalistic landcover elements such as woodlands, rivers/streams/water bodies, salt marsh, reedbeds, orchards, meadows, heathland, unimproved or semi-improved grasslands, parkland and wood pasture, will increase sensitivity to wind energy development.

The modern arable landcover common across much of North Norfolk is likely to fall somewhere between the above two in terms of its sensitivity to wind energy development, depending on the interplay of other criteria, e.g. scale.

NB The consideration of potential impact on higher quality agricultural land (defined through the Agricultural Land Classification) is specifically excluded from this assessment, although it is recognised that this may form a material planning consideration during the planning process.

Data Sources:

North Norfolk Landscape Character Assessment; Field survey; OS mapping; aerial imagery (Google Earth); mapped habitat / nature conservation designation data

Some indicators of lower sensitivity

- Brownfield land
- Extensive and uniform/regular landcover (non-naturalistic)
- Commercial forestry plantations

Some indicators of higher sensitivity

- · Naturalistic landcover
- Complex/irregular field pattern
- Mosaics of landcover features

Sense of openness/ enclosure

Landscapes of open and exposed character would have a higher sensitivity to wind energy development due to the lack of visual screening, both of the turbines themselves and lesser opportunities for screening of associated elements such as tracks and fencing. This means turbines are likely to be visible over very long distances with no break from their presence in views. An open landscape is also likely to result in a greater likelihood of cumulative interactions between developments.

Conversely, landscapes with a higher degree of visual containment (e.g. due to landform or vegetation such as high hedges) are likely to have higher potential to visually absorb the turbines and their associated structures.

Data Sources:

North Norfolk Landscape Character Assessment; Field survey; OS mapping data.

Some indicators of lower sensitivity

• Enclosure provided by vegetation

Some indicators of higher sensitivity

Exposed landscapes with no sense of enclosure

Scale (landform and component landscape features) and landscape pattern/ complexity

Developments that fit the scale of the landscape, both in terms of overall landscape pattern and individual features, will result in lower levels of impact (landscape sensitivity to developments of an appropriate size and scale will be lower).

Larger scale landscapes and those that lack human scale features (such as farmsteads, rural lanes, walls, fences and hedgerows) are likely to be less sensitive to the large scale features such as wind turbines while existing human scale features in the landscape in the form of existing buildings or trees, or small scale intricate landscape patterns (e.g. smaller and/or irregular field sizes) will increase sensitivity to these larger scale developments.

Data Sources:

North Norfolk Landscape Character Assessment; Field survey; OS mapping data; Aerial imagery (Google Earth)

Some indicators of lower sensitivity

- Large scale, uniform landscapes
- Absence of human scale features

Some indicators of higher sensitivity

- Intimate and small-scale landscapes
- Small-scale field systems e.g. traditional pastoral landscapes
- Human scale features e.g. church towers

Sense of tranquillity, remoteness and rurality; current level of human influence/ development Landscapes that are relatively tranquil (due to freedom from human activity and disturbance and having a perceived naturalness), or that have a strong feel of remoteness or traditional rurality with few modern human influences tend to increase levels of sensitivity to wind energy development, compared to landscapes that have a busier character, sources of human noise and activity or visible signs of built form or other development; particularly larger-scale modern infrastructure, industry or housing, or commercial forestry. In areas with existing built development/vertical structures, cluttering of skylines may become an issue, depending on the siting and design of structures but this needs to be assessed on a case by case basis.

Data Sources:

North Norfolk Landscape Character Assessment; Field survey; OS mapped data; tranquillity and dark skies data; Undeveloped Coast Local Plan policy area; AONB Integrated Landscape Character Guidance

Some indicators of lower sensitivity

- Presence of larger-scale modern infrastructure, industry or housing
- · Commercial forestry plantations

Some indicators of higher sensitivity

- Strongly rural, tranquil areas with little or no existing settlement/built form/human activity
- Historic buildings/settlements

Time depth / historical continuity

Historic landscape types (HLTs) such as commons, unimproved intertidal or marine marsh, informal parklands and pre-18th century enclosure will have a higher sensitivity to the introduction of modern built form such as wind turbines, due to their strong historic qualities and the time depth they give to the landscape, plus the potential for preserved archaeological evidence.

Data Sources:

Norfolk Historic Landscape Characterisation Report and dataset (2009); OS mapping; Aerial imagery (Google Earth)

Some indicators of lower sensitivity

 Absence of historic landscape types / dominance of modern land uses such as 20th Century intensive agriculture , urban or industrial development

Some indicators of higher sensitivity

 Presence / dominance of historic landscape types

Value criteria

Presence of landscape designations and extent to which their defined special qualities could be affected Landscapes that are formally designated for their scenic quality indicate areas of higher landscape value. The degree of sensitivity depends on the extent to which the special qualities of the designated landscape could be affected by the development type. Areas that are designated as an AONB or Heritage Coast and whose special qualities are likely to be adversely affected by wind turbines will have a higher sensitivity than areas outside a designated landscape or whose defined special qualities are not likely to be negatively impacted.

Data Sources:

Designated area boundaries; 'Valued Features and Qualities' sections of the North Norfolk Landscape Character Assessment

Some indicators of lower sensitivity

- Outside a landscape designation
- Defined special qualities unlikely to be adversely affected by wind energy development

Some indicators of higher sensitivity

- Inside a landscape designation
- Defined special qualities likely to be adversely affected by wind energy development

Other indicators of value not captured through other criteria: scenic quality, rarity, intactness, representativeness, nature conservation Undesignated landscapes that have a high scenic quality (i.e. in aesthetic terms), and/or exhibit a strong character or sense of place, will be more sensitive than landscapes of low scenic quality or with a weak sense of place.

Landscapes that contain rare elements or features or a rare Landscape Character Type will be more sensitive than landscapes that are commonplace or not particularly notable examples of a type.

Landscapes that are highly intact (i.e. key characteristic elements of the landscape are

and cultural heritage interests, recreational value, and associations with artists or writers.

[N.B. Above indicators relate to those outlined in Box 5.1 of GLVIA3]

in good condition) are likely to be more sensitive than landscapes that are less intact.

Landscapes of a particular character and/or features or elements which are considered particularly important examples are likely to be more sensitive than landscapes that are less representative of their type.

Landscapes that have natural or heritage conservation interest (indicated by the presence of wildlife, earth science or cultural designations) are likely to be more sensitive than landscapes without such interests.

Landscapes that are valued for leisure and recreation are likely to be more sensitive to development than landscapes that are not.

Landscapes that have strong associations with writers or artists may have a higher sensitivity than areas that are lacking in these links.

Data Sources:

'Valued Features and Qualities' sections of the North Norfolk Landscape Character Assessment; Field survey; OS mapping; designated area boundaries; footpaths; Aerial imagery (Google Earth)

Some indicators of lower sensitivity

 Absence of other indicators of value across much of the landscape

Some indicators of higher sensitivity

 Presence / concentration of other indicators of value

Field-scale Solar PV Energy Development

Table 4.2: Sensitivity assessment criteria and definitions in relation to Field-scale Solar PV energy development

Criteria

Indications of relatively higher or lower landscape sensitivity

Susceptibility Criteria

Topography and skylines

Low-lying developments such as field-scale solar PV development will typically be less easily perceived in flat landscapes than on slopes, especially higher slopes, or where overlooked by higher vantage points. Therefore, flat and uniform landscapes, smooth, gently undulating lowland landscapes or larger plateau areas are likely to be less sensitive to field-scale solar PV development than a landscape with a dramatic or complex landform or distinct landform features, such as ridges or valleys, or a prominent rolling landform with highly visible / pronounced slopes, that contribute more strongly to landscape character.

Due to the limited height of solar PV panels (typically 3m), they are unlikely to form prominent features on the skyline, except where sited on an otherwise featureless ridgeline and subject to longer distance views.

Data Sources:

North Norfolk Landscape Character Assessment; Field survey; OS contours

Some indicators of lower sensitivity

• Flat, uniform landform, e.g. expansive lowland landscapes

Plateau areas

Some indicators of higher sensitivity

- Pronounced slopes
- Irregular or complex landform
- Narrow valleys
- Distinctive landform/skyline features, e.g. ridges and glacial eskers or historic features on skylines

Landcover

Landscapes containing existing hard surfacing or built elements (e.g. previously developed land/brownfield sites or large-scale horticulture) are likely to be less sensitive to industrial type developments such as field-scale solar PV development, which also has a perceived urban/industrial quality, compared to highly rural (particularly pastoral) or naturalistic landcover.

Naturalistic landcover elements such as woodlands, rivers/streams/water bodies, salt marsh, reedbeds, orchards, meadows, heathland, unimproved or semi-improved grasslands, parkland and wood pasture, will increase sensitivity to solar PV development.

The modern arable landcover common across much of North Norfolk is likely to fall somewhere between the above two in terms of its sensitivity to field-scale solar PV development, depending on the interplay of other criteria, e.g. scale.

NB The consideration of potential impact on higher quality agricultural land (defined through the Agricultural Land Classification) is specifically excluded from this assessment, although it is recognised that this may form a material planning consideration during the planning process.

Data Sources:

North Norfolk Landscape Character Assessment; Field survey; OS mapping; Priority Habitat data; Aerial imagery

Some indicators of lower sensitivity

- Previously developed/brownfield land
- Extensive and uniform/regular landcover (non-naturalistic)

Some indicators of higher sensitivity

 Naturalistic landcover such as woodlands, rivers/streams/water bodies, salt marsh, reedbeds,

		orchards, meadows, heathland, unimproved or semi-improved grasslands, parkland and wood pasture							
Sense of openness/ enclosure	Landscapes of open and exposed character would have a higher sensitivity to field-scale solar PV development due to the lack of visual screening, and lesser opportunities for screening mitigation without changing character. Conversely, landscapes with a higher degree of visual containment (e.g. due to landform or vegetation such as high hedges) are likely to have higher potential to visually absorb such development.								
	Data Sources:								
	North Norfolk Landscape Character Assessment; Field survey								
	Some indicators of lower sensitivity	Some indicators of higher sensitivity							
	Fields bounded by higher hedgerows /	Unenclosed landscapes							
	shelter belts / woodland	Fields bounded by low managed hedgerows, walls and fences							
Scale (landform and component landscape	Developments that fit the scale of the landscape, both in terms of overall landscape pattern and individual features, will result in lower levels of impact (landscape sensitivity to developments of an appropriate size and scale will be lower).								
features) and landscape pattern/ complexity	Larger scale, regular or uniform landscapes with consistent ground cover are likely to be less susceptible to the more expansive and larger scale developments (such as field-scale solar PV) than small-scale intricate landscapes (e.g. smaller and/or irregular field sizes).								
	Data Sources:								
	North Norfolk Landscape Character Assessment; Field survey; OS mapping								
	Some indicators of lower sensitivity Large or very large scale, uniform landscapes, e.g. extensive arable farmland with consistent large or very large field sizes	Some indicators of higher sensitivity Intimate and small-scale landscapes Small-scale field systems – e.g. traditional pastoral landscapes							
Sense of tranquillity, remoteness and rurality; current level of human influence/ development	Landscapes that are relatively tranquil (due to freedom from human activity and disturbance and having a perceived naturalness), or that have a strong feel of remoteness or traditional rurality with few modern human influences tend to increase levels of sensitivity to all types of built development compared to landscapes that have a busier character, sources of human noise and activity or visible signs of built form or other development; particularly larger-scale modern infrastructure, industry or housing, or commercial forestry.								
	Data Sources:								
	North Norfolk Landscape Character Assessment; Field survey; OS mapped data; tranquillity and dark skies data; Undeveloped Coast Local Plan policy area; AONB Integrated Landscape Character Guidance								
	Some indicators of lower sensitivity	Some indicators of higher							
	Presence of larger-scale modern infrastructure, industry or housing	Strongly rural, tranquil areas with little or no existing settlement/built form/human activity							
	Commercial forestry plantations								
	Historic buildings/settlements								

Time depth / historical continuity

Historic landscape types (HLTs) such as commons, unimproved intertidal or marine marsh, informal parklands and pre-18th century enclosure will have a higher sensitivity due to their strong historic qualities and the time depth they give to the landscape.

Data Sources:

Norfolk Historic Landscape Characterisation Report and dataset (2009); Field survey

Some indicators of lower sensitivity

Presence / dominance of historic landscape types

Some indicators of higher sensitivity

Absence of historic landscape types / dominance of modern land uses such as 20th Century intensive agriculture, urban or industrial development

Value criteria

Presence of landscape designations and extent to which their defined special qualities could be affected Landscapes that are formally designated for their scenic quality are likely to be more sensitive to development than undesignated areas. The degree of sensitivity depends on the extent to which the special qualities of the designated landscape could be affected by the development type. Areas that are designated as an AONB or Heritage Coast and whose defined special qualities may be adversely affected by solar PV will have a higher sensitivity than areas outside a designated landscape or whose defined special qualities are not likely to be negatively impacted.

Data Sources:

Designated area boundaries; 'Valued Features and Qualities' sections of the North Norfolk Landscape Character Assessment

Some indicators of lower sensitivity

- Outside a landscape designation
- Defined special qualities unlikely to be adversely affected by field scale solar PV development

Some indicators of higher sensitivity

- Inside a landscape designation
- Defined special qualities likely to be adversely affected by field scale solar PV development

Other indicators of value not captured through other criteria: scenic quality, rarity, intactness. representativeness, nature conservation and cultural heritage interests, recreational value. and associations with artists or writers.

[N.B. Above indicators relate to those outlined in Box 5.1 of GLVIA3]

Undesignated landscapes that have a high scenic quality (i.e. in aesthetic terms). and/or exhibit a strong character or sense of place, will be more sensitive than landscapes of low scenic quality or with a weak sense of place.

Landscapes that are rare or a particularly important example of a landscape type will be more sensitive than landscapes that are commonplace or not particularly notable examples of a type.

Landscapes that are highly intact (i.e. key characteristic elements of the landscape are in good condition) are likely to be more sensitive than landscapes that are less intact.

Landscapes of a particular character and/or features or elements which are considered particularly important examples are likely to be more sensitive than landscapes that are less representative.

Landscapes that have natural or heritage conservation interest (indicated by the presence of wildlife, earth science or cultural designations) are likely to be more sensitive than landscapes without such interests.

Landscapes that are valued for leisure and recreation are likely to be more sensitive to development than landscapes that are not.

Landscapes that have strong associations with writers or artists may have a higher sensitivity than areas that are lacking in these links.

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Data Sources:

'Valued Features and Qualities' sections of the North Norfolk Landscape Character Assessment; Field survey; OS mapping; designated area boundaries; footpaths; Aerial imagery (Google Earth)

Some indicators of lower sensitivity

- Areas with a low scenic quality
- No particularly rare or important types of landscape or features
- Could be in poor condition
- Likely to have a low density of presence of wildlife, earth science or cultural designations, or lack such designations
- Not likely to be valued for recreation or have associations with writers or artists

Some indicators of higher sensitivity

- Areas with a high scenic quality, that exhibit a rare type of landscape/ features or landscape / features are considered a particularly important example
- Areas that are intact
- Areas that have a high density of presence of wildlife, earth science or cultural designations
- Landscapes that are valued for recreation
- Landscapes that have strong associations with writers or artists

Onshore Cable Routes (for offshore wind farms)

Table 4.3: Sensitivity assessment criteria and definitions in relation to Onshore Cable Routes (for offshore wind farms)

Criteria Indications of relatively higher or lower landscape sensitivity Susceptibility Criteria The clearance of vegetation associated with onshore cable routes will typically be less Topography and easily perceived in flat landscapes than on visible slopes, especially higher slopes, or skylines where overlooked by higher vantage points. Therefore, flat and uniform landscapes, smooth, gently undulating lowland landscapes or larger plateau areas are likely to be less susceptible to the laying of onshore cable routes than landscapes with dramatic or complex landforms or distinct landform features such as ridges or valleys or prominent rolling hills with highly visible / pronounced slopes. These effects will diminish over time as landcover redevelops, but there is potential for longer-lasting impact in more widely visible locations. Data Sources: North Norfolk Landscape Character Assessment; Field survey; OS maps and contours Some indicators of lower sensitivity Some indicators of higher sensitivity Flat, expansive lowland landscapes Pronounced slopes Plateau areas Irregular or complex landform Narrow valleys Distinctive landform features, e.g. ridges and glacial eskers Previously developed land or brownfield sites are likely to be less sensitive to the open Landcover cut trenching required to lay onshore cable routes compared to more naturalistic landcover such as woodlands, rivers/streams/water bodies, salt marsh, reedbeds, orchards, meadows, heathland, unimproved or semi-improved grasslands, parkland and wood pasture. Arable land also has a relatively lower sensitivity to onshore cable routes (excluding hedgerow/treed field boundaries), due to the relative ease of restoring such land (provided top soil has been carefully retained in good condition during construction). NB The consideration of potential impact on higher quality agricultural land (defined through the Agricultural Land Classification) is specifically excluded from this assessment, although it is recognised that this may form a material planning consideration during the planning process. Data Sources: North Norfolk Landscape Character Assessment; Field survey; OS mapping; Priority Habitat data; Aerial imagery Some indicators of lower sensitivity Some indicators of higher sensitivity Previously developed/brownfield land Naturalistic landcover Modern, large-scale arable landcover Mosaic of landcover features Smaller-scale fields with greater density of hedgerow/treed boundaries

Sense of openness/ enclosure

Landscapes of open and exposed character would have a relatively higher sensitivity to onshore cable routes due to the lack of visual screening. Conversely, landscapes with a higher degree of visual containment (e.g. due to landform or vegetation) are likely to have higher potential to visually screen cable route corridors, providing that any features crossed can be restored succesfully.

Data Sources:

North Norfolk Landscape Character Assessment; Field survey

Some indicators of lower sensitivity

A semi-enclosed landscape with features such as hedgerows and shelter belts that could help filter/ screen views

Some indicators of higher sensitivity

 An open landscape with no features to filter views of the open cut trenching

Sense of tranquillity, remoteness and rurality; current level of human influence/ development Landscapes that are relatively tranquil (due to freedom from human intervention, activity and disturbance and having a perceived naturalness) will have increased sensitivity to the disturbance associated with onshore cable routes, compared to landscapes that have a busier character, sources of human noise and activity or visible signs of built form or other development.

Data Sources:

North Norfolk Landscape Character Assessment; Field survey; OS mapped data; tranquillity and dark skies data; Undeveloped Coast Local Plan policy area; AONB Integrated Landscape Character Guidance

Some indicators of lower sensitivity

· Presence of human activity

Some indicators of higher sensitivity

· Absence of human activity

Time depth / historical continuity

Historic landscape types (HLTs) such as commons, unimproved intertidal or marine marsh, informal parklands and pre-18th century enclosure will have a higher sensitivity to open cut trenching to lay onshore cable routes due to their strong historic qualities and greater difficulty in restoring the landscape. The ground disturbance associated with the construction of onshore cable routes (via open cut trenching or horizontal directional drilling) may result in long-term or permanent harm to or loss of these more historic areas.

Data Sources:

Norfolk Historic Landscape Characterisation Report and dataset (2009); Field survey

Some indicators of lower sensitivity

• Presence / dominance of historic landscape types

Some indicators of higher sensitivity

Absence of historic landscape types
 / dominance of modern land uses
 such as 20th Century intensive
 agriculture

Value criteria

Presence of landscape designations and extent to which their defined special qualities could be affected Landscapes that are formally designated for their scenic quality indicate areas of higher landscape value. The degree of sensitivity depends on the extent to which the special qualities of the designated landscape could be affected by the type of development. Areas that are designated as an AONB or Heritage Coast and whose defined special qualities may be adversely affected by laying of cable routes will have a higher sensitivity than areas outside a designated landscape or whose defined special qualities are not likely to be negatively impacted.

Data Sources:

Designated area boundaries; 'Valued Features and Qualities' sections of the North Norfolk Landscape Character Assessment

Some indicators of lower sensitivity

- Outside a landscape designation
- Defined special qualities unlikely to be permanently adversely affected by laying of cable routes

Some indicators of higher sensitivity

- Inside a landscape designation
- Defined special qualities likely to be permanently adversely affected by laying of cable routes

Other indicators of value not captured through other criteria: scenic quality, rarity, intactness, representativeness, nature conservation and cultural heritage interests, recreational value, and associations with artists or writers.

[N.B. Above indicators relate to those outlined in Box 5.1 of GLVIA3]

Undesignated landscapes that have a high scenic quality (i.e. in aesthetic terms), and/or exhibit a strong character or sense of place, will be more sensitive than landscapes of low scenic quality or with a weak sense of place.

Landscapes that are rare or a particularly important example of a landscape type will be more sensitive than landscapes that are commonplace or not particularly notable examples of a type.

Landscapes that are highly intact (i.e. key characteristic elements of the landscape are in good condition) are likely to be more sensitive than landscapes that are less intact.

Landscapes that have natural or heritage conservation interest (indicated by the presence of wildlife, earth science or cultural designations) are likely to be more sensitive than landscapes without such interests.

Landscapes that are valued for leisure and recreation are likely to be more sensitive to development than landscapes that are not.

Landscapes that have strong associations with writers or artists may have a higher sensitivity than areas that are lacking in these links.

Data Sources:

'Valued Features and Qualities' sections of the North Norfolk Landscape Character Assessment; Field survey; OS mapping; designated area boundaries; footpaths; Aerial imagery (Google Earth)

Some indicators of lower sensitivity

- · Areas with a low scenic quality
- No particularly rare or important types of landscape or features
- Could be in poor condition
- Likely to have a low density of presence of wildlife, earth science or cultural designations, or lack such designations
- Not likely to be valued for recreation or have associations with writers or artists

Some indicators of higher sensitivity

- Areas with a high scenic quality, that exhibit a rare type of landscape/ features or landscape / features are considered a particularly important example
- · Areas that are intact
- Areas that have a high density of presence of wildlife, earth science or cultural designations
- Landscapes that are valued for recreation
- Landscapes that have strong associations with writers or artists

N.B. 'Scale' is not a susceptibility criterion for onshore cable routes, as landscape scale would not be influenced by temporary cable laying operations.

Industrial Type Developments

Table 4.4: Sensitivity assessment criteria and definitions in relation to Industrial Type Developments (incorporating Anaerobic Digestion Plants, Sub-Stations and Cable Relay Stations for offshore windfarms, and Commercial Battery Storage Schemes)

Criteria	Indications of relatively higher or lower landscape sensitivity								
Susceptibility Crit	eria								
Topography and skylines	Prominent and distinctive and/or undeveloped skylines, or skylines with important landmark features, are likely to be more sensitive to industrial type developments than landscapes with non-prominent or unremarkable skylines.								
	Data Sources:								
	North Norfolk Landscape Character Assessment; Field survey								
	Some indicators of lower sensitivity	Some indicators of higher sensitivity							
	Non-prominent skylines	Prominent, undeveloped skylines							
		Landmark (historic) skyline features							
Landcover	Landscapes containing existing hard surfacing or built elements (e.g. urban areas or brownfield sites) are likely to be less sensitive to these types of developments which have a perceived urban/industrial quality, compared to areas of naturalistic landscape. The arable landcover common across much of North Norfolk is likely to fall somewhere between the above two in terms of its sensitivity to industrial type developments, depending on the interplay of other criteria, e.g. skylines.								
	Data Sources:								
	North Norfolk Landscape Character Assessment; Field survey; Priority Habitat data; Aerial imagery								
	Some indicators of lower sensitivity • Previously developed/brownfield land	Some indicators of higher sensitivity							
		Naturalistic landcover							
Sense of openness/ enclosure	Landscapes of open and exposed character would have a higher sensitivity to industrial type developments due to the lack of visual screening, and lesser opportunities for screening mitigation without changing character. Conversely, landscapes with a higher degree of visual containment (e.g. due to landform or vegetation) are likely to have higher potential to visually absorb such development.								
	Data Sources:								
	North Norfolk Landscape Character Assessment; Field survey								
	Some indicators of lower sensitivity	Some indicators of higher sensitivity							
	 More enclosed landscape, perhaps as a result of higher hedgerows / shelter belts / woodland 	Open and exposed landscape with little opportunity for screening							
Scale (landform and component landscape	The state of the s	Developments that fit the scale of the landscape will result in lower levels of impact. Larger scale landscapes are likely to have a lower sensitivity to these features than more intimate small scale landscapes.							
features) and landscape pattern/ complexity	Data Sources: North Norfolk Landscape Character Assessment; Field survey								

Some indicators of lower sensitivity

• Large scale landscapes

Some indicators of higher sensitivity

• Intimate and small-scale landscapes

Sense of tranquillity, remoteness and rurality; current level of human influence/ development Landscapes that are relatively tranquil (due to freedom from human activity and disturbance and having a perceived naturalness), or that have a strong feel of remoteness or traditional rurality with few modern human influences will have increased sensitivity to industrial type developments compared to landscapes that have a busier character, sources of human noise and activity or visible signs of built form or other development.

Data Sources:

North Norfolk Landscape Character Assessment; Field survey; OS mapped data; tranquillity and dark skies data; Undeveloped Coast Local Plan policy area; AONB Integrated Landscape Character Guidance

Some indicators of lower sensitivity

- Industrial / urban areas
- Settled farmland

Some indicators of higher sensitivity

 Strongly rural, tranquil areas with little or no existing settlement/built form/human activity

Time depth / historical continuity

Historic landscape types (HLTs) such as commons, unimproved intertidal or marine marsh, informal parklands and pre-18th century enclosure will have a higher sensitivity to industrial type developments due to their strong historic qualities and the time depth they give to the landscape, plus the potential for preserved archaeological evidence.

Data Sources:

Norfolk Historic Landscape Characterisation Report and dataset (2009); Field survey

Some indicators of lower sensitivity

 Presence / dominance of historic landscape types

Some indicators of higher sensitivity

 Absence of historic landscape types / dominance of modern land uses such as 20th Century intensive agriculture , urban or industrial development

Value criteria

Presence of landscape designations and extent to which their defined special qualities could be affected Landscapes that are formally designated for their scenic quality indicate areas of higher landscape value. The degree of sensitivity depends on the extent to which the special qualities of the designated landscape could be affected by the development type. Areas that are designated as an AONB or Heritage Coast and whose special qualities may be adversely affected by industrial types developments such as anaerobic digestion plants, sub-stations and cable relay stations for offshore windfarms, and commercial battery storage schemes will have a higher sensitivity than areas outside a designated landscape or whose defined special qualities are not likely to be negatively impacted.

Data Sources:

Designated area boundaries; 'Valued Features and Qualities' sections of the North Norfolk Landscape Character Assessment

Some indicators of lower sensitivity

- Outside a landscape designation
- Defined special qualities unlikely to be adversely affected by the above industrial type developments

Some indicators of higher sensitivity

- Inside a landscape designation
- Defined special qualities likely to be adversely affected by the above industrial type developments

Other indicators of value not captured

Undesignated landscapes that have a high scenic quality (i.e. in aesthetic terms), and/or exhibit a strong character or sense of place, will be more sensitive than landscapes of

through other criteria: scenic quality, rarity, intactness, representativeness, nature conservation and cultural heritage interests, recreational value, and associations with artists or writers.

[N.B. Above indicators relate to those outlined in Box 5.1 of GLVIA3]

low scenic quality or with a weak sense of place.

Landscapes that are rare or a particularly important example of a landscape type will be more sensitive than landscapes that are commonplace or not particularly notable examples of a type.

Landscapes that are highly intact (i.e. key characteristic elements of the landscape are in good condition) are likely to be more sensitive than landscapes that are less intact.

Landscapes that have natural or conservation interest (indicated by the presence of wildlife, earth science or cultural designations) are likely to be more sensitive than landscapes without such interests.

Landscapes that are valued for leisure and recreation are likely to be more sensitive to development than landscapes that are not.

Landscapes that have strong associations with writers or artists may have a higher sensitivity than areas that are lacking in these links.

Data Sources:

'Valued Features and Qualities' sections of the North Norfolk Landscape Character Assessment; Field survey; OS mapping; designated area boundaries; footpaths; Aerial imagery (Google Earth)

Some indicators of lower sensitivity

- Areas with a low scenic quality
- No particularly rare or important types of landscape or features
- A landscape assessed as being in poor condition
- Likely to have a low density of presence of wildlife, earth science or cultural designations, or lacking such designations
- Not likely to be valued for recreation or have associations with writers or artists

Some indicators of higher sensitivity

- Areas with a high scenic quality, that exhibit a rare type of landscape/ features or landscape / features are considered a particularly important example
- Areas that are intact
- Areas that have a high density of presence of wildlife, earth science or cultural designations
- Landscapes that are valued for recreation
- Landscapes that have strong associations with writers or artists

Reservoirs

Table 4.5: Sensitivity assessment criteria and definitions in relation to Reservoirs

Criteria	Indications of relatively higher or lower landscape sensitivity								
Susceptibility Crite	eria								
Topography and skylines	Reservoirs require embankments and therefore can be integrated more readily into undulating landscapes than flat landscapes. Landscapes containing valleys, bowls and landforms may therefore have a lower sensitivity to such features than flat landscapes.								
	Data Sources:								
	North Norfolk Landscape Character Assessment; Field survey; OS mapping/ contours								
	Some indicators of lower sensitivity • Landscapes containing valleys, bowls and	Some indicators of higher sensitivity							
	landforms	Flat landscapes such as floodplains, coastal marshes and plateaux							
		Locations on prominent skylines							
Landcover	The arable landcover common across much of North Norfolk is strongly associated with reservoirs, due to the requirement for crop irrigation. The building of reservoirs will result in loss of landcover. Previously developed land/brownfield sites are likely to have lower sensitivity than more naturalistic landcover elements such as woodlands, rivers/streams/water bodies, salt marsh, reedbeds, orchards, meadows, heathland, unimproved or semi-improved grasslands, parkland and wood pasture. Arable farmland is likely to lie somewhere in between these two extremes.								
	NB The consideration of potential impact on higher quality agricultural land (defined through the Agricultural Land Classification) is specifically excluded from this assessment, although it is recognised that this may form a material planning consideration during the planning process.								
	Data Sources:								
	North Norfolk Landscape Character Assessment; Field survey; Priority Habitat data; Aerial imagery								
	Some indicators of lower sensitivity	Some indicators of higher							
	Previously developed/brownfield land	sensitivityNaturalistic landcover							
Sense of openness/ enclosure	Landscapes of open and exposed character would have a higher sensitivity to reservoir developments due to the lack of visual screening. Conversely, landscapes with a higher degree of visual containment (e.g. due to landform or vegetation) are likely to have higher potential to visually absorb such development.								
	Data Sources:								
	North Norfolk Landscape Character Assessment; Field survey; OS mapping								
	Some indicators of lower sensitivity Some indicators of higher sens								
	Landscapes with a sense of enclosure resulting from landform/ vegetation	An open and exposed landscape							

Scale (landform and component landscape features) and landscape pattern/ complexity

Developments that accords with the scale of the landscape, both in terms of overall landscape pattern and individual features, will result in lower levels of impact (landscape sensitivity to developments of an appropriate size and scale will be lower). Larger scale landscapes are likely to have a lower sensitivity to reservoirs of this size (2–5 hectares) than smaller scale landscapes.

Landscapes with a naturalistic pattern are likely to have a higher sensitivity due to the engineered appearance of most reservoirs (albeit it is possible to design a reservoir to appear more naturalistic).

Data Sources:

North Norfolk Landscape Character Assessment; Field survey; OS data

Some indicators of lower sensitivity

• Large scale and regular landscapes

Some indicators of higher sensitivity

- Intimate and small-scale landscapes
- Landscapes with a naturalistic landscape pattern

Sense of tranquillity, remoteness and rurality; current level of human influence/ development Landscapes that are relatively tranquil (due to freedom from human activity and disturbance and having a perceived naturalness), or that have a strong feel of remoteness or traditional rurality with few modern human influences tend to increase levels of sensitivity to reservoirs compared to landscapes that have a busier character, sources of human noise and activity or visible signs of built form or other development.

Data Sources:

North Norfolk Landscape Character Assessment; Field survey; OS mapped data; tranquillity and dark skies data; Undeveloped Coast Local Plan policy area; AONB Integrated Landscape Character Guidance

Some indicators of lower sensitivity

 Busy landscapes with sources of human noise and activity

Some indicators of higher sensitivity

• Strongly rural, tranquil areas with little or no existing settlement/built form/human activity

Time depth / historical continuity

Historic landscape types (HLTs) such as commons, unimproved intertidal or marine marsh, informal parklands and pre-18th century enclosure will have a higher sensitivity to reservoir development due to their strong historic qualities and the time depth they give to the landscape, plus the potential for preserved archaeological evidence.

Data Sources:

Norfolk Historic Landscape Characterisation Report and dataset (2009); Field survey

Some indicators of lower sensitivity

• Presence / dominance of historic landscape types

Some indicators of higher sensitivity

 Absence of historic landscape types / dominance of modern land uses such as 20th Century intensive agriculture , urban or industrial development

Value criteria

Presence of landscape designations and extent to which their defined special qualities could be affected Landscapes that are formally designated for their scenic quality indicate areas of higher landscape value. The degree of sensitivity depends on the extent to which the special qualities of the designated landscape could be affected by the development type. Areas that are designated as an AONB or Heritage Coast and whose special qualities may be adversely affected by reservoirs will have a higher sensitivity than areas outside a designated landscape or whose defined special qualities are not likely to be negatively impacted.

Data Sources:

Designated area boundaries; 'Valued Features and Qualities' sections of the North Norfolk Landscape Character Assessment

Some indicators of lower sensitivity

- Outside a landscape designation
- Defined special qualities unlikely to be adversely affected by reservoirs

Some indicators of higher sensitivity

- Inside a landscape designation
- Defined special qualities likely to be adversely affected by reservoirs

Other indicators of value not captured through other criteria: scenic quality, rarity, intactness, representativeness, nature conservation and cultural heritage interests, recreational value, and associations with artists or writers.

Undesignated landscapes that have a high scenic quality (i.e. in aesthetic terms), and/or exhibit a strong character or sense of place, will be more sensitive than landscapes of low scenic quality or with a weak sense of place.

Landscapes that are rare or a particularly important example of a landscape type will be more sensitive than landscapes that are commonplace or not particularly notable examples of a type.

Landscapes that are highly intact (i.e. key characteristic elements of the landscape are in good condition) are likely to be more sensitive than landscapes that are less intact.

Landscapes that have nature or heritage conservation interest (indicated by the presence of wildlife, earth science or cultural designations) are likely to be more sensitive than landscapes without such interests.

Landscapes that are valued for leisure and recreation are likely to be more sensitive to development than landscapes that are not.

Landscapes that have strong associations with writers or artists may have a higher sensitivity than areas that are lacking in these links.

[N.B. Above indicators relate to those outlined in Box 5.1 of GLVIA3]

Data Sources:

'Valued Features and Qualities' sections of the North Norfolk Landscape Character Assessment; Field survey; OS mapping; designated area boundaries; footpaths; Aerial imagery (Google Earth)

Some indicators of lower sensitivity

- Areas with a low scenic quality
- No particularly rare or important types of landscape or features
- Could be un poor condition
- Likely to have a low density of presence of wildlife, earth science or cultural designations, or lack such designations
- Not likely to be valued for recreation or have associations with writers or artists

Some indicators of higher sensitivity

- Areas with a high scenic quality, that exhibit a rare type of landscape/ features or landscape / features are considered a particularly important example
- Areas that are intact
- Areas that have a high density of presence of wildlife, earth science or cultural designations
- Landscapes that are valued for recreation
- Landscapes that have strong associations with writers or artists

4.14 Sensitivity is judged on a five-point scale in this study, according to the definitions in **Table 4.6** below.

Table 4.6: Sensitivity levels and definitions

Sensitivity Level	Definition
High (H)	Key characteristics and valued attributes of the landscape are highly sensitive to change from the type and scale of development being assessed.
Moderate-High (M-	Key characteristics and valued attributes of the landscape are moderately to highly sensitive to change from the type and scale of development being assessed.
Moderate (M)	Key characteristics and valued attributes of the landscape are moderately sensitive to change from the type and scale of development being assessed.
Low-Moderate (L-M)	Key characteristics and valued attributes of the landscape are have a lower sensitive to change from the type and scale of development being assessed.
Low (L)	Key characteristics and valued attributes of the landscape are robust and are less likely to be adversely affected by the type and scale of development being assessed.

- 4.15 The sensitivity ratings are specific to the landscapes of North Norfolk, and represent the typical level of sensitivity across the entire LCT or airfield area being assessed. Particular factors, often reflecting variations in the distribution of Valued Features and Qualities identified in the North Norfolk Landscape Character Assessment, may locally increase or reduce sensitivity. Where applicable this is noted within the Overall Sensitivity Summary for the LCT.
- 4.16 Judgements are based on the presence of the types of development as set out in Chapter 3 of this report.

Presentation of Results

- 4.17 Each landscape character type and airfield is mapped (including relevant landscape designations), briefly described and a sensitivity evaluation provided for each landscape character type and airfield setting out:
 - A summary of landscape character for the relevant landscape type;
 - Description of the landscape against assessment criteria, with an indication as to whether
 the character of the landscape increases or lowers sensitivity in relation to each
 development type;
 - A summary of overall landscape sensitivity to different development types on a five point scale, with a reason for the judgement and an indication of areas of higher and lower sensitivity.



5 Summary of Results

- 5.1 This section presents a summary of the results of the landscape sensitivity assessment. The full landscape sensitivity assessments for each of the landscape character types (LCTs) are presented in **Appendix 1**, and for each of the airfields in **Appendix 2**.
- **Tables 5.1** and **5.2** below provide an overview of the sensitivity results for LCTs and for airfields respectively. These are mapped for LCTs in **Figures 5.1 5.7**.
- 5.3 Typical scales of development assessed for each development type, were as follows:
 - Large scale wind turbine: 80m hub, 130m tip;
 - Medium scale wind turbine: 60m hub, 100m tip;
 - Small scale wind turbine: 30m hub, 45m tip;
 - Field scale solar PV: at least 10 hectares;
 - Onshore cable route: 30-80m clearance width;
 - Cable relay station / substation: 1 hectare;
 - Commercial battery storage scheme: 1 hectare;
 - Anaerobic digestion plant: 2.5 8 hectares; and
 - Reservoir: 2 5 hectares.
- Three of the development types discussed in **Section 3** cable relay stations and substations, commercial battery storage schemes and anaerobic digestion plants have been grouped in terms of the provision of sensitivity ratings as 'industrial-type' development. This is because the characteristics of this range of development types were similar and no significant differences were identified between them in terms of strategic-scale sensitivity.

Summary of Sensitivity across Landscape Character Types

Table 5.1: Sensitivity ratings for typical scales of development by LCT (excluding airfields)

LCT	Large scale wind			ledium Small scale wind		Solar PV		Onshore cable routes		Industrial type dev		Reservoir		
	OUT AONB	IN AONB	OUT AONB	IN AONB	OUT AONB	IN AONB	OUT AONB	IN AONB	OUT AONB	IN AONB	OUT AONB	IN AONB	OUT AONB	IN AONB
Rolling Open Farmland	Н	Ξ	МН	Н	M	Н	МН	Н	M	МН	M	Ξ	M	МН
Tributary Farmland	Н	Ξ	МН	Н	M	Н	МН	Н	M	МН	M	Ξ	M	МН
Low Plains Farmland	Н		МН		M		M		M		M		M	
River Valleys	н	Н	Н	н	МН	Н	Н	н	МН	Н	МН	Н	МН	Н
Settled Farmland	Н		МН		M		M		M		M		M	
Coastal Plain	Н	Н	МН	н	M	Н	M	Н	LM	МН	M	Н	M	МН
Coastal Shelf	Н	Н	Н	Н	MH	Н	МН	Н	МН	МН	МН	Н	МН	МН
Wooded Ridge	П	Н	H	Н	МН	Н	МН	Н	МН	Н	МН	Н	МН	н
Rolling Heath & Arable		Н		Н		Н		Н		МН		Н		МН
Drained Coastal Marshes		Н		Н		Н		Н		Н		Н		Н
Open Coastal Marshes		Н		Н		Н		Н		Н		Н		Н

Observations on Landscape Sensitivity to Wind Energy Development

- The main visual component of wind energy developments are the wind turbines themselves. They introduce moving features into the landscape that are often large in scale and visible across long distances, affecting sense of scale, skylines and characteristics of stillness, remoteness and solitude. It is important to ensure a landscape can accommodate a turbine or turbines of the scale proposed, by virtue of its topography, scale and component features. Consideration must be given not just to the landscape type in question but also to adjacent landscape types, given the typical extent of visibility within the generally open landscape of North Norfolk.
- 5.6 **Figures 5.1-5.3** show the results of the landscape sensitivity assessment for the three scales of wind turbines assessed.
- 5.7 Generally the landscapes across North Norfolk are rural and open in character, and they contain many human scale features such as historic buildings, church towers, and hedgerow trees. As a result the landscape's sensitivity to wind energy development tends to be fairly high. In addition, sensitivity to wind energy is highest in the Norfolk Coast AONB and Heritage Coast where the tranquil and undeveloped nature of the landscape is a defined special quality of the landscape.
- Reflecting these attributes, the assessment has found that there are no landscapes in North Norfolk that score 'low' or even 'low-moderate' sensitivity to commercial wind energy developments. Only the larger scale arable landscapes LCTs outside the AONB (i.e. the Rolling Open Farmland, Tributary Farmland, Low Plains Farmland, Settled Farmland and Coastal Plain) are considered to have a moderate sensitivity to the small scale wind turbines (30m hub/ 45m tip height). These same landscapes have moderate-high sensitivity to medium scale wind turbines (60m hub/100m tip height). All parts of North Norfolk have a high sensitivity to the largest scale of turbine (80m hub/130m tip height).
- 5.9 All areas within the AONB and Heritage Coast have the highest level of sensitivity to commercial scale wind turbines (only carefully sited small scale domestic wind turbines associated with existing buildings are likely to be appropriate in the AONB). The part of the 'Undeveloped Coast' that falls outside the AONB (i.e. the strip that occurs along the Coastal Plain LCT) has a high sensitivity to large scale turbines, a moderate-high sensitivity to medium scale turbines and a moderate sensitivity to small scale turbines.
- 5.10 LCTs often contain areas of higher and lower sensitivity within them it is therefore important to take note the content of the individual LCT evaluations and the generic guidance to minimise harm to the landscape and to achieve appropriate siting and design (see **Appendix 3**).

Observations on Landscape Sensitivity to field scale solar PV

- 5.11 Field scale solar PV schemes result an increase in the perceived human influence on the landscape and change land cover patterns of rural landscapes. The loss of productive arable land will be a consideration in the planning balance assessment. It is important to ensure a landscape can accommodate a solar PV scheme of the scale proposed, by virtue of its topography, scale and landcover.
- 5.12 **Figure 5.4** shows the results of the landscape sensitivity assessment for field scale solar PV developments.
- 5.13 The arable character of much of North Norfolk might indicate a lower sensitivity to field scale solar PV developments. However, the elevated nature of the areas to the west and tranquil and undeveloped nature of the coast increases sensitivity. The lower sensitivity areas are to the east of the District where land is at a lower level and there are more opportunities for screening and landscape mitigation.
- 5.14 Reflecting these attributes, the assessment has found that there are no landscapes in North Norfolk that score 'low' or even 'low-moderate' sensitivity to the development of field scale solar PV developments. Only the lower lying LCTs of the Low Plains Farmland, Settled Farmland and Coastal Plain LCTs are considered to have a moderate sensitivity to field scale solar PV developments while the majority of the rest of the District has a moderate-high sensitivity which indicates the need for very careful siting and design. All areas within the AONB and Heritage

Coast have a high sensitivity to this scale of solar PV development. Notwithstanding this, there may be circumstances where localised variations within the AONB give rise to individual sites with characteristics less sensitive to large scale PV schemes, such as the combination of topography and boundary screening that provides containment to the existing solar farm at Northrepps.

- 5.15 The part of the 'Undeveloped Coast' that falls outside the AONB (i.e. the strip that occurs along the Coastal Plain LCT) has a moderate sensitivity to field scale solar PV.
- 5.16 LCTs often contain areas of higher and lower sensitivity within them it is therefore important to take note the content of the individual LCT evaluations and the generic guidance to minimise harm to the landscape, to achieve good siting and design and post-construction landscape maintenance (see **Appendix 3**).

Observations on Landscape Sensitivity to Onshore Cable Routes

- 5.17 Onshore cable routes require temporary disruption to the landscape while the cables are being buried and during this time can affect the sense of tranquillity associated with a landscape. They can result on direct loss of landscape features such as trees and hedges and longer term scarring in terms of soil structure (depending on the ability of the ground to recover from the works). The key issue with buried cable routes is to ensure the landscape has the capacity to recover successfully after the works (e.g. through detailed post construction landscape maintenance).
- 5.18 **Figure 5.5** shows the results of the landscape sensitivity assessment for onshore cable routes.
- 5.19 The farmed arable character of much of North Norfolk means that the landscape's sensitivity to buried onshore cable routes tends to be moderate (albeit this is higher in more exposed or elevated areas), and even moderate-low in the Coastal Plain due to its lowland location and arable landcover. However, the unenclosed marshes on the coast are particularly sensitive to undergrounding activities as recovery would be more difficult in these landscapes and sensitivity in these areas is therefore high. Areas within the Norfolk Coast AONB or Heritage Coast are all high (in more naturalistic areas) or moderate-high (in farmed areas).
- 5.20 The part of the 'Undeveloped Coast' that falls outside the AONB (i.e. the strip that occurs along the Coastal Plain LCT) has a low-moderate sensitivity to onshore cable routes.
- 5.21 LCTs often contain areas of higher and lower sensitivity within them it is therefore important to take note the content of the individual LCT evaluations and the generic guidance to minimise harm to the landscape and to achieve good siting and design (see **Appendix 3**).

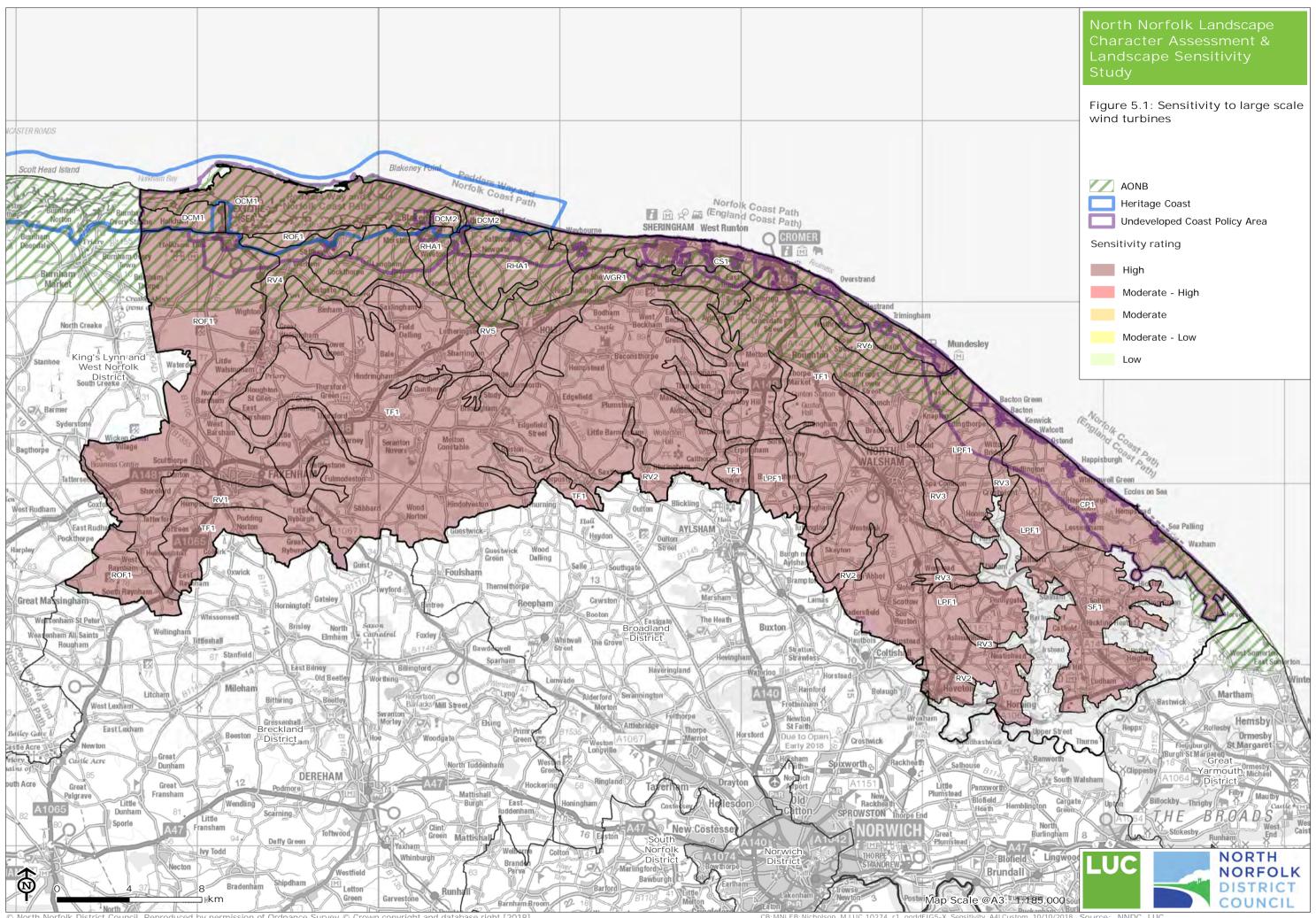
Observations on Landscape Sensitivity to Industrial type development

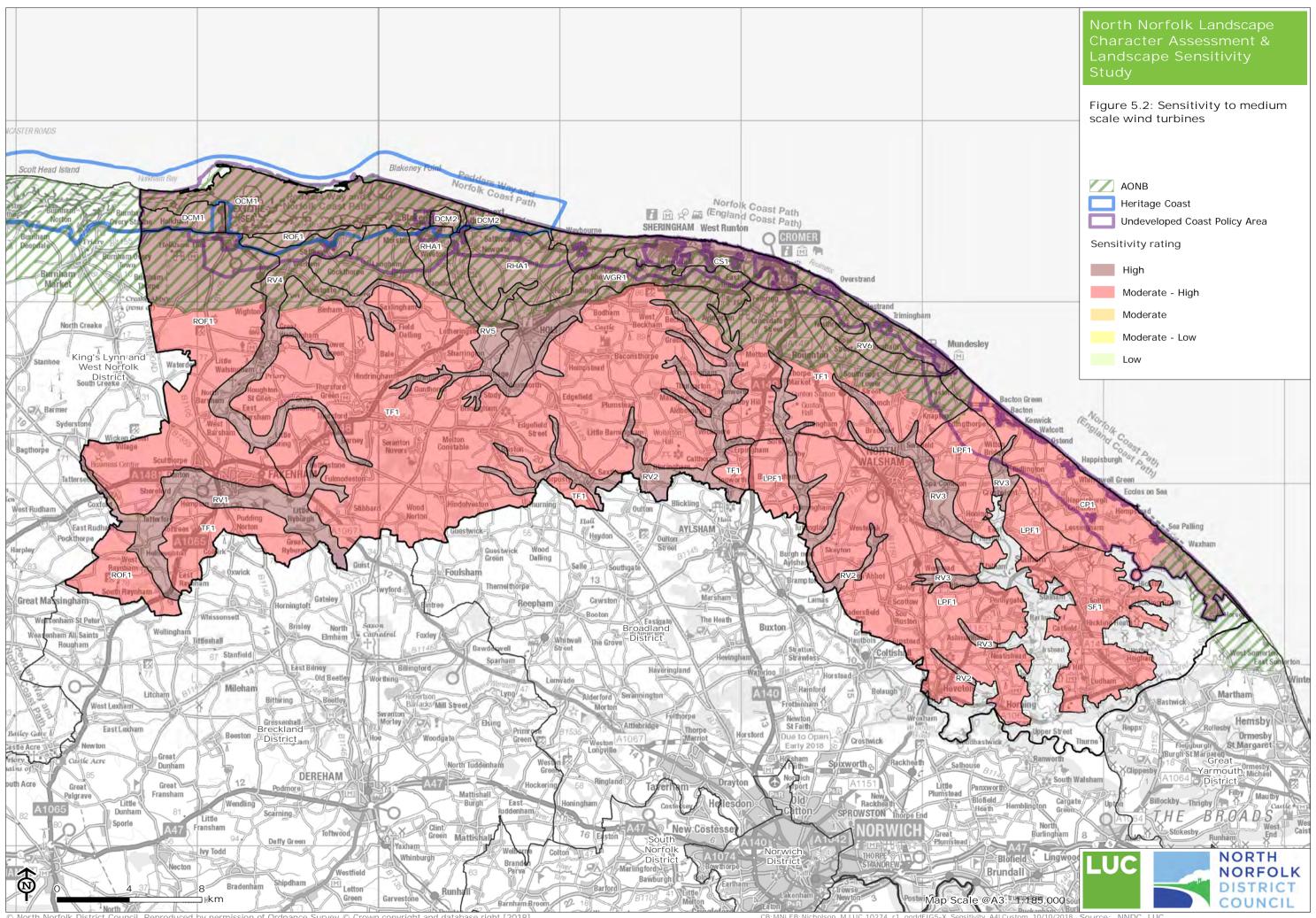
- 5.22 Industrial type developments such as commercial battery storage, anaerobic digestion plants, cable relay stations and sub-stations (for offshore wind farms) result in an increase in the perceived human influence. It is important to ensure a landscape can accommodate such developments by virtue of its topography, scale, landcover and ability to screen such development.
- 5.23 **Figure 5.6** shows the results of the landscape sensitivity assessment for industrial type development (commercial battery storage, anaerobic digestion plants, cable relay stations and sub-stations for offshore wind farms).
- The farmed rural character of much of North Norfolk provides attributes that indicate both decreased sensitivity (the regular landscape pattern of arable fields and presence of some hedgerows/ woodland providing enclosure) and increased sensitivity (open, exposed and strongly rural character with some areas of visually prominent slopes). Reflecting these attributes, the assessment has found that much of the farmland associated with the Rolling Open Farmland, Tributary Farmland, Low Plains Farmland, Settled Farmland and Coastal Plain has a moderate sensitivity to these types of development. Localised areas of lower sensitivity are associated with existing farm complexes containing larger-scale built form, such as storage sheds, and locations with higher visual screening/containment by planting or landform.

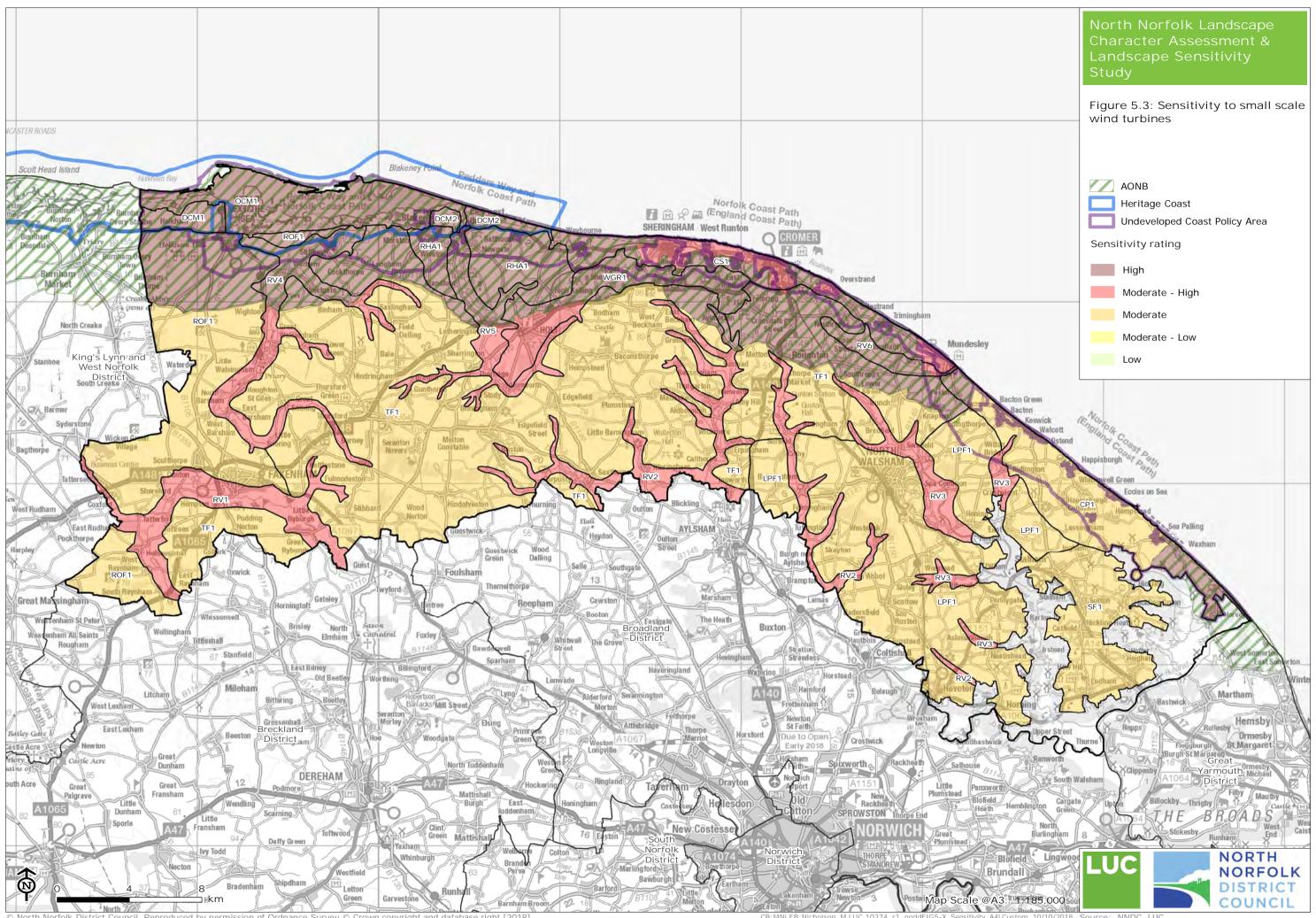
- In the Norfolk Coast AONB and Heritage Coast, where the tranquil and undeveloped nature of the landscape is a special quality of the landscape, sensitivity is high. The part of the 'Undeveloped Coast' that falls outside the AONB (i.e. the strip that occurs along the Coastal Plain LCT) has a moderate sensitivity to these types of development.
- 5.26 LCTs often contain areas of higher and lower sensitivity within them it is therefore important to take note the content of the individual LCT evaluations and the generic guidance to minimise harm to the landscape and to achieve good siting and design (see **Appendix 3**).

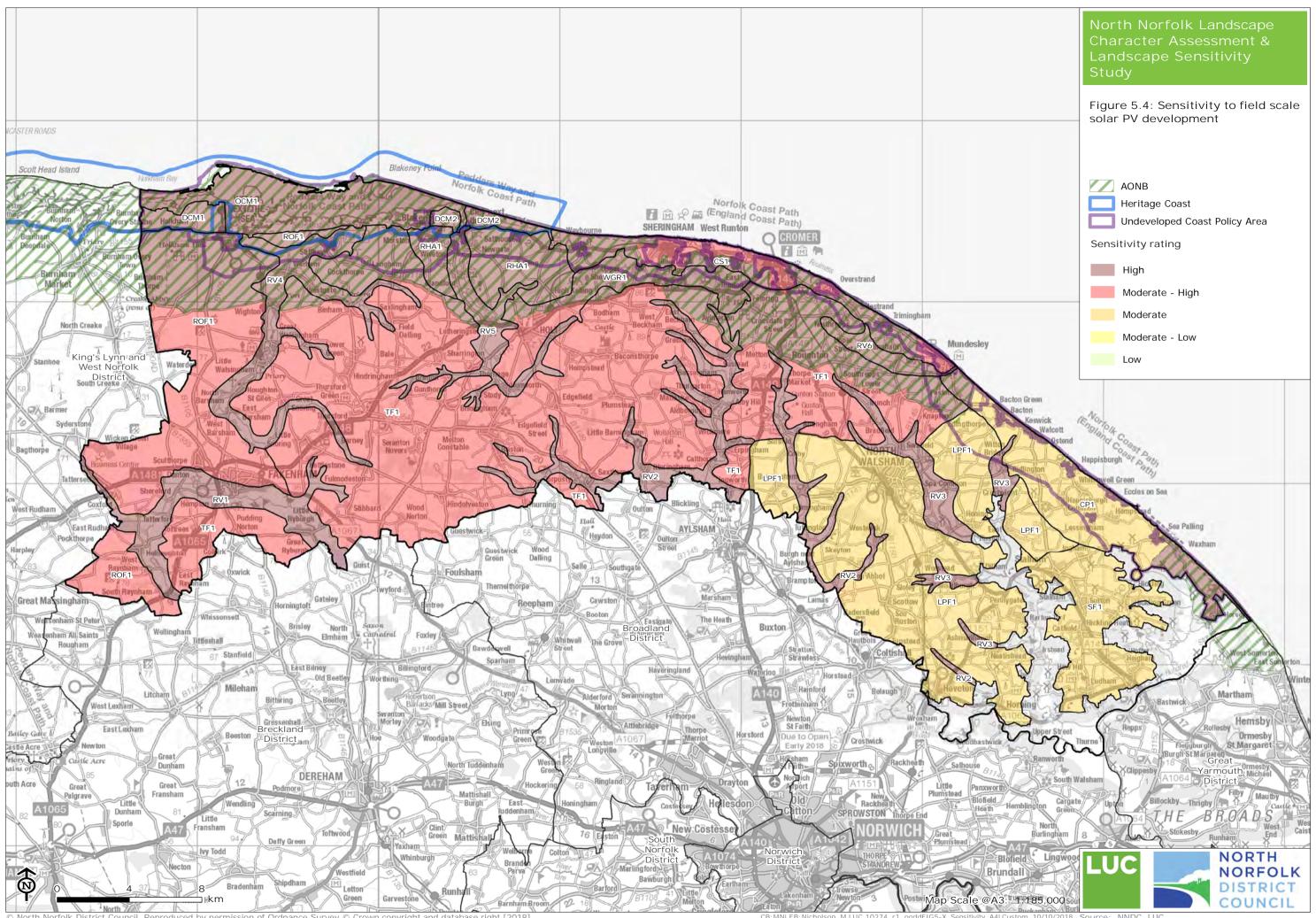
Observations on Landscape Sensitivity to Reservoirs

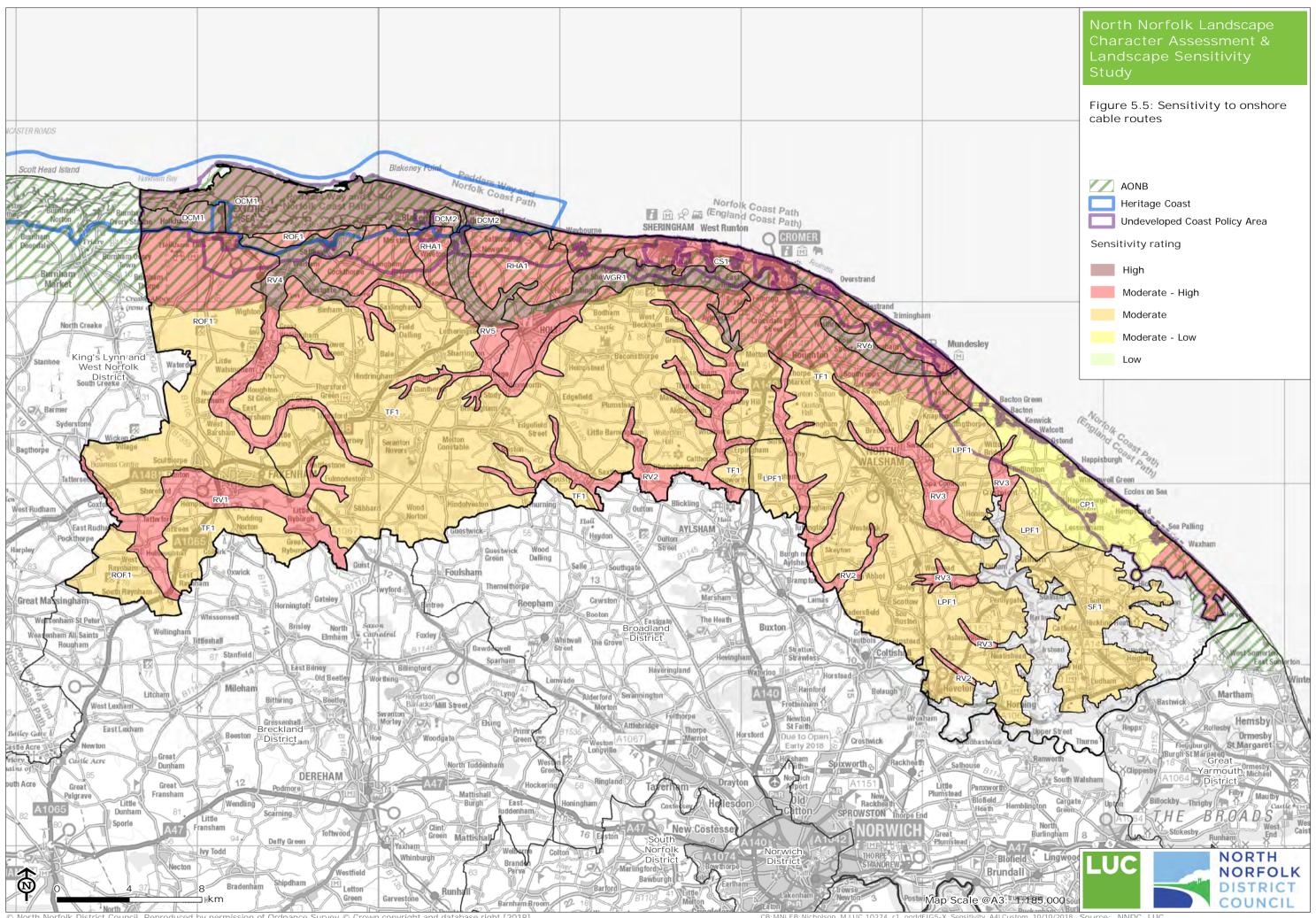
- 5.27 Man-made reservoirs, especially those with engineered steep banks, introduce man-made elements to the landscape and can affect naturalistic and undeveloped qualities of more remote landscapes. It is important to ensure a landscape can accommodate such developments by virtue of its topography, landcover and perceptual character.
- 5.28 **Figure 5.7** shows the results of the landscape sensitivity assessment for reservoir development of 2-5ha.
- 5.29 The rural, but man-made arable landscape of much of North Norfolk means that the landscape's sensitivity to reservoirs tends to be moderate. In the Norfolk Coast AONB and Heritage Coast, where the tranquil and undeveloped nature of the landscape is a defined special quality of the landscape, sensitivity is higher. No landscapes in North Norfolk have a 'low' or 'low-moderate' sensitivity to the development of man-made reservoirs. The part of the 'Undeveloped Coast' that falls outside the AONB (i.e. the strip that occurs along the Coastal Plain LCT) has a moderate sensitivity to reservoirs.
- 5.30 LCTs often contain areas of higher and lower sensitivity within them it is therefore important to take note the content of the individual LCT evaluations and the generic guidance to minimise harm to the landscape and to achieve good siting and design (see **Appendix 3**).

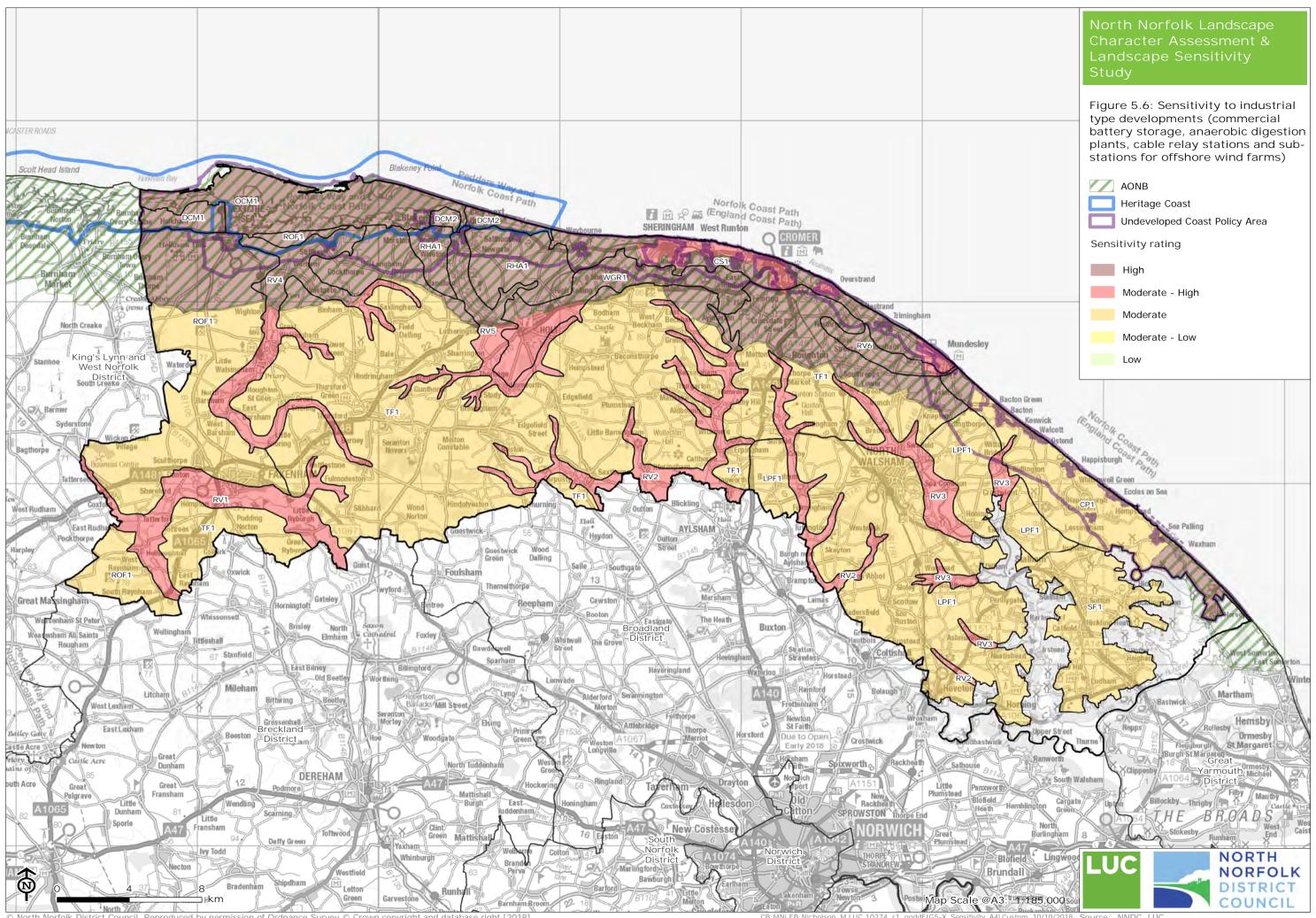


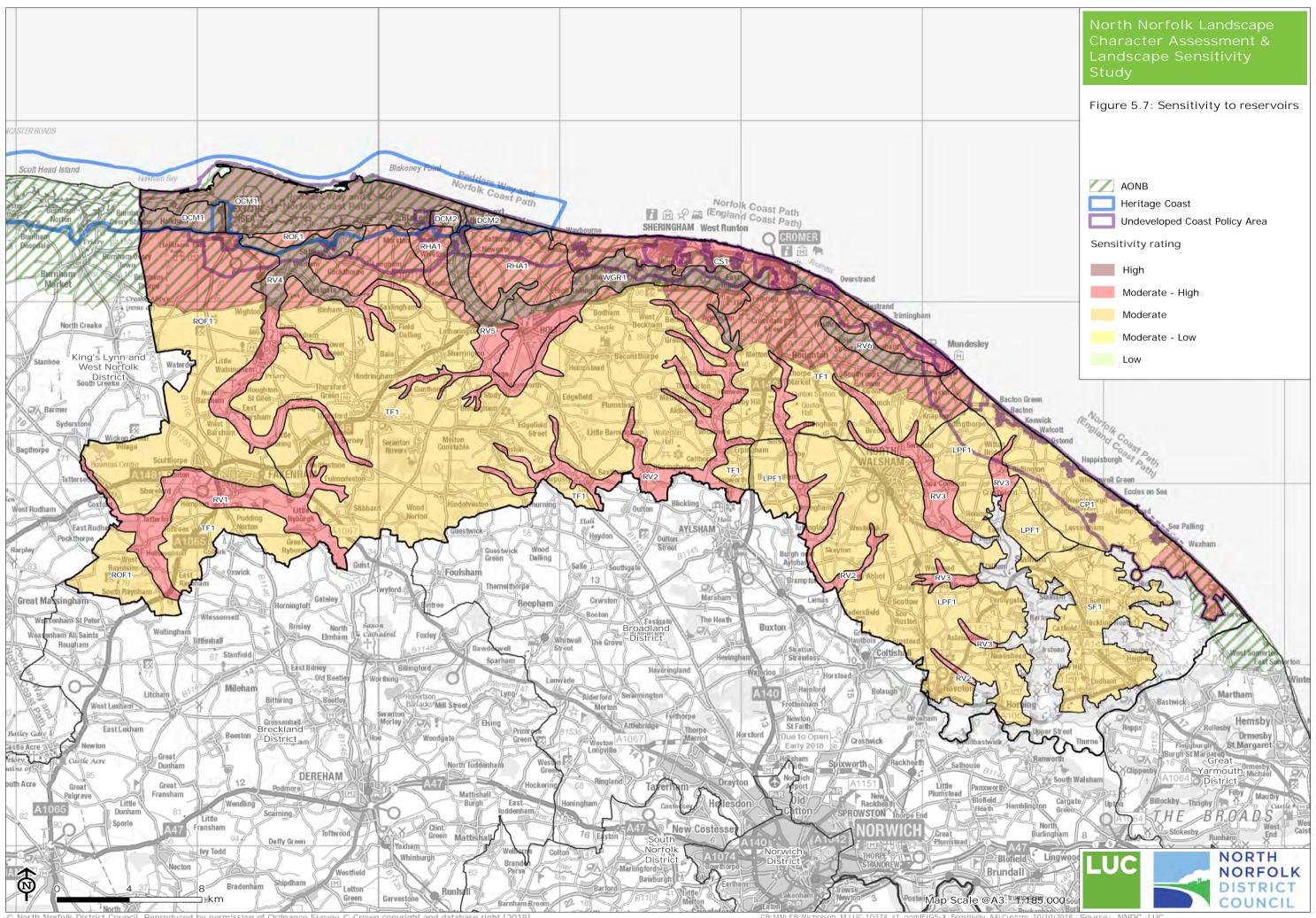












Summary of Landscape Sensitivity across Airfields

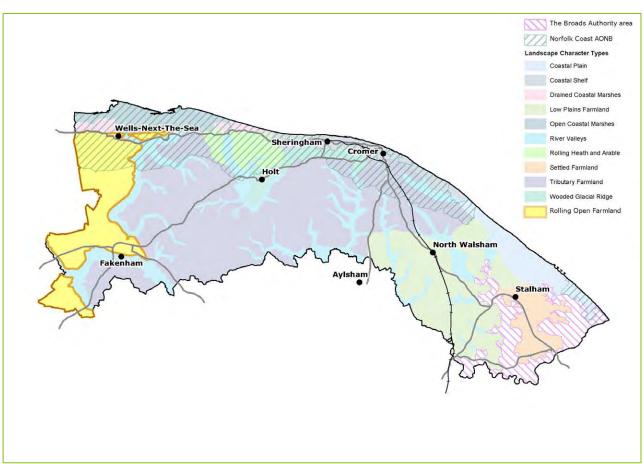
Table 5.2: Sensitivity ratings for typical scales of renewable energy development by airfield

Airfield (LCT)	Large scale wind	Medium scale wind	Small scale wind	Solar PV	Onshore cable routes	Industrial type dev	Reservoir
West Raynham (ROF)	МН	M	LM	L	L	L	LM
Sculthorpe (ROF)	MH	M	LM	L	L	L	L
North Creake (ROF)	Н	п	MH	LM	LM	M	M
Little Snoring (TF)	МН	M	LM	M	LM	M	M
Langham (TF)	Н	Н	МН	M	M	МН	M
Coltishall (LPF)	МН	МН	M	LM	LM	LM	LM

- 5.31 Many of the District's airfields are former RAF World War 2 airfields which became operational as a base for aircraft from various RAF squadrons. Of the six airfields assessed in this report, only Little Snoring remains in regular use, for civil aviation, although much of the original airfield has since been ploughed for arable farming. Part of the Sculthorpe site remains in MOD use, for training purposes, but it is not frequently used by aircraft. Three of the airfields, Sculthorpe, West Raynham and Coltishall, have seen conversion of technical/military buildings to commercial uses and refurbishment of accommodation for residential use (and also, at Coltishall, a prison). These residential areas are excluded from the assessed site areas. At three airfields, West Raynham, Coltishall and North Creake, large scale solar farms are operational.
- 5.32 Airfield sensitivity is typically lower than sensitivity of the Landscape Type in which each site is located, although there is generally less difference in relation to wind turbines, which have a greater impact on surrounding landscapes than the lower height development types. In one case, North Creake, the location of the airfield close to the AONB edge means that sensitivity to medium and small scale turbines is actually greater than is typically the case for the LCT outside of the AONB. The lowest sensitivity applies to sites which have the most built development, and in several cases also extensive solar PV development, and which lack a significant relationship with areas designated for their landscape value (the AONB and The Broads). At Coltishall there has been significant development but sensitivity is higher than it would otherwise be because of its cultural heritage interest, reflected in its designation as a Conservation Area.

Appendix 1 – Landscape Sensitivity Assessment Profiles by Landscape Type





Baseline Landscape

Introduction to the Landscape Character Type

The Rolling Open Farmland Type extends from the coast to the southern edge of the District and is characterised by high level open, gently rolling arable farmland with relatively large, geometric fields enclosed by hedgerows. With the exception of the Holkham estate there is limited woodland cover and relatively few field/hedgerow trees. Flatter plateau areas are associated with former airfield sites. Settlement is focused principally on river valleys that pass through and alongside the Rolling Open Farmland – the Stiffkey Valley to the east and the Wensum Valley which cuts through the southern part of the area – which are assessed as a separate Landscape Type. There is little habitation within the Type other than farmsteads, small hamlets, development associated with airfields and two towns: Wells-next-the-Sea and Fakenham.

The northern part of the LCT falls within the Norfolk Coast AONB and the area that surrounds Wells-Next-the-Sea also forms part of North Norfolk's Undeveloped Coast policy area. The North Norfolk Heritage Coast lies outside the LCT but adjoins its northern boundary.

Component Character Areas

There is one area of Rolling Open Farmland in North Norfolk, in the west of the District:

ROF1 - Holkham to Raynham

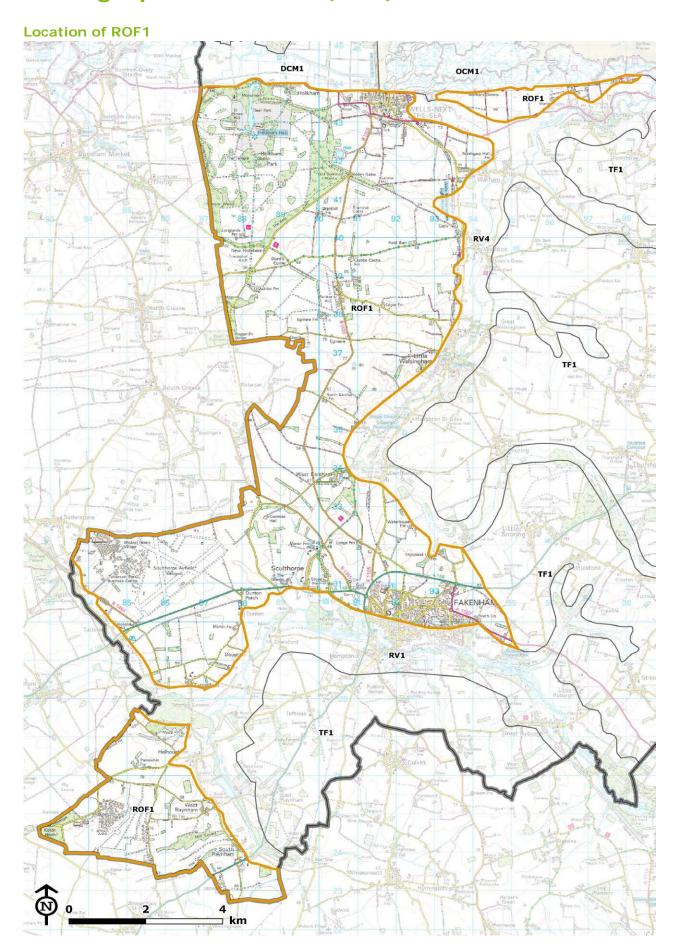
Key Characteristics¹

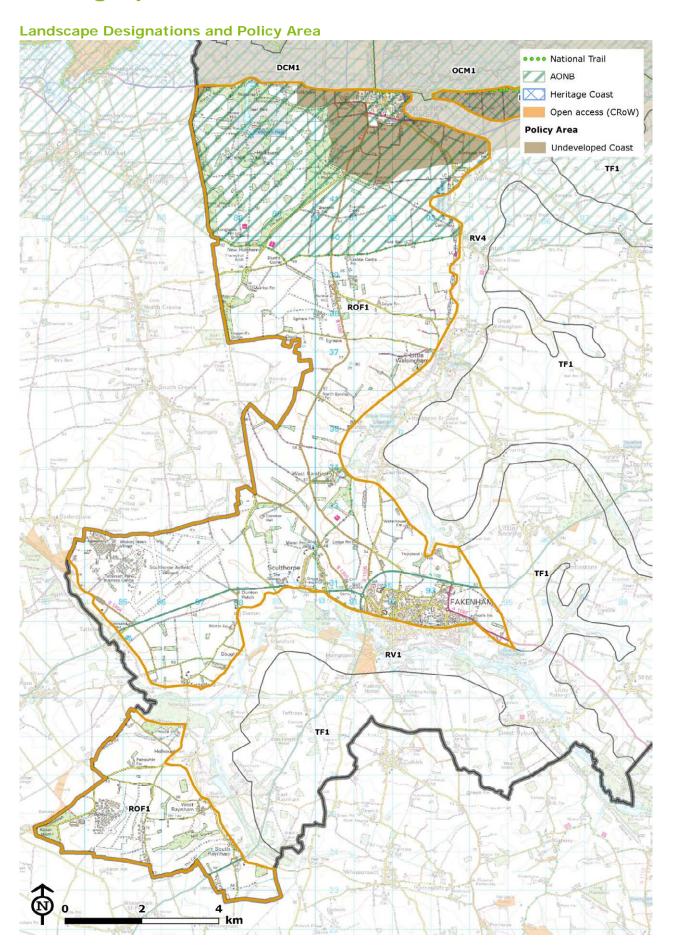
- Gently rolling terrain sloping down to river valleys and the coast
- Arable land use with large, geometric fields and low hedges
- Relatively low level of woodland cover
- Holkham Hall parkland
- Former airfields are prominent features
- An open, homogeneous character with expansive views
- Sparse, strongly nucleated settlement pattern
- Modern development at Fakenham
- Wells-next-the-Sea is a major tourist attraction
- Limited habitat diversity

Valued features and qualities

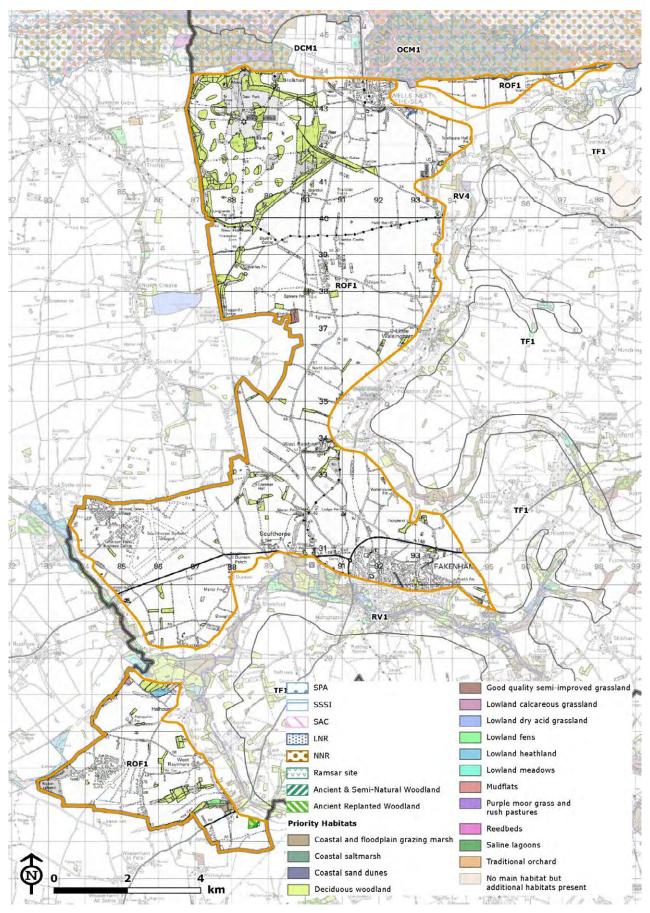
- Open, expansive, rural character with a sense of remoteness and tranquillity
- Undeveloped coastal character
- Holkham Park
- · Managed, ordered character
- Remnant semi-natural habitats
- Other valued features include the abandoned medieval village of Egmere (a Scheduled Monument), with its ruined church; the historic interest of the former airfields, and views of Fakenham church tower from across the Wensum Valley.

¹ Detailed information about landscape character and valued features is set out in the North Norfolk Landscape Character Asssessment (2018)

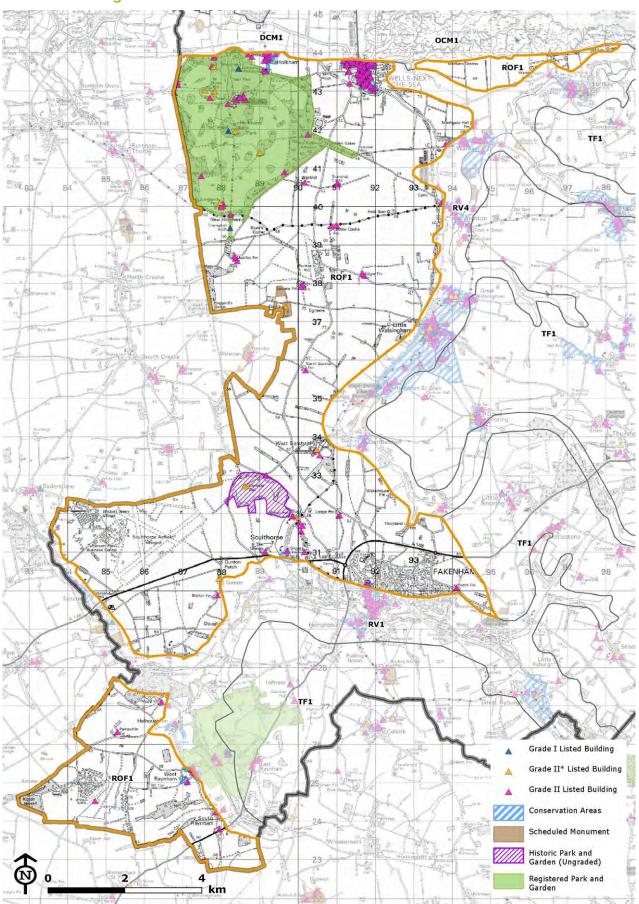




Nature Conservation Interests



Cultural Heritage Interests



Landscape Sensitivity Evaluation

Criteria Appraisal

The following table illustrates the appraisal of the Rolling Open Farmland LCT against the sensitivity criteria which have been predetermined for the development types.

KEY	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity to the development type	↓	stron	utes do gly influ ivity in ion	ience	_	Crite deve type app	*		
Sens Crite	itivity ria	Characteristics of t	he LCT		ators (_			sceptib	oility a	nd valu	ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Susce	eptibilit	y Criteria										
Topog & sky	graphy lines	plateau sloping down generally undevelope punctuated by histor such as church tower skylines and the stee those on the bounda	ed skylines occasionally ic landmark features, rs. The undeveloped eper slopes, particularly ries with the River y increase susceptibility	1	1	1	1	1	1	1	1	1
Landd	cover	Park and in the far so Raynham. The regist	ative to other LCTs. gher around Holkham buth around West ered parkland at st to the typical arable and will increase	_	_	_	-	1	-		-	_
Sense openr enclos	ness/		combination of arable f woodland, large field d gently sloping dform. This lack of tainment generally	1	1	1	1	1	1	1	1	1
Scale (landf and comp	form	Typically a large scal large, geometric field sparse settlement ler simple and regulated	ls, low hedges and	Î	1	1	1	*	_	_	_	1

	increas	es generally e sensitivity to relopment type	Attributes generally decrease sensitivity to the development type	↓	stron	utes do gly influ tivity in ion	uence	_	dev type	erion/ elopme e not licable	nt	*
Sensit Criteri	-	Characteristics of t	he LCT			_	ner/lov		sceptik	oility aı	nd valu	ae
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
feature landsca pattern comple	ape n &	the more expansive a	uces susceptibility to and larger scale s less influence on the									
Sense tranquiremote rurality level of human influence Coast parea	illity/ eness/ y & f n nce	Strong sense of transand traditional ruralitiquiet farmland, which of the few settlement Fakenham and to a lomain roads (in particular road and in busy tougeneral absence of minfluence and developlandscape increases stypes of built form, rurdeveloped' landscape	1	1	1	1	1	1	1	1	1	
Time d historio continu	cal	dominated by extens century enclosures, t century agriculture a parkland associated (Holkham Hall, Crant Barsham Hall). This t strongly influence su the vicinity of the his	ogether with 20th nd areas of informal with historic estates ner Hall and West ypically does not	_		_	_	-	-			_
Value	Criteria	a										
Present landsca designa and ex to whice their sp qualities could be affecte	ape ations ttent ch pecial es	designated Norfolk C The presence of the a overall sensitivity of generally all forms of consideration are like defined special qualit	AONB increases the the landscape, as	1	1	1	1	1	1	1	1	1

KEY	increas	tes generally e sensitivity to relopment type	Attributes generally decrease sensitivity to the development type	↓	stron	utes do gly influ ivity in ion	ience	-	deve type	erion/ elopme e not licable	nt	×
Sensi Criter	-	Characteristics of t	he LCT			of high velopn		ver sus vpe	ceptib	oility a	nd valu	ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Preser landsc design and ex to whit their s qualitie could l affecte	cape nations xtent ch special es be	sense of remoteness wildness (and dark stand distinctive visual sea. Outside the AONB the generally undesignat development outside affect special qualities the sense of remoter wildness (and dark stand distinctive visual and sea.	kies), and the strong links between land and e landscape is ed, but built the AONB could still s within it, including ness, tranquillity and kies), and the strong									
Other indicat value	tors of	the designated lands	= :	1	1	1	1	1	1	1	1	1
		is relatively typical ar Holkam Park is a par	c park which increases	_	_		-		_		_	_
		Rarity: This area of a particularly rare land Intactness: Typically post-18 th century ara maintained hedgeroy	high intactness of ble farmland with	↑↑	↓		↑					↑
		Nature conservation interests: Overall, co are relatively limited landscape, and conce where their presence locally rather than ac For example, key her the extensive Grade	& cultural heritage nservation interests in this arable entrated in small areas increases sensitivity cross the whole area.	-						"	"	

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity to the development type	Attributes do not strongly influence sensitivity in either direction Criterion/ development type not applicable							nt	×
Sensi Crite	itivity ria	Characteristics of t	he LCT			of high velopn			sceptib	oility a	nd valu	ae
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		Scheduled Monumen Crabb's Castle. Natu designations are limi Chalk Pit SSSI, noted	within the AONB), at Holkham, Wells, Raynham (also f listed buildings), and ats at Egmere and are conservation ated to the small Wells at for its rich orchid solated area of ancient									
		National Trail runs al northern boundary of sensitivity locally. Th has local footpaths b	f the LCT, increasing e majority of the area	1	Î	Ţ	Î	1	1	1	Ţ	1
		Literary / artistic ass		_	_	_	_	_	_	_	_	_

Rolling Open Farmland landscape.

NB Airfields within ROF are specifically excluded from the sensitivity assessment at Landscape Character Type level, as these are subject to their own individual assessments within Appendix 2.

Overall sensitivity to different development types

The following table provides an overall sensitivity rating, and justification for that rating, in relation to the relevant development types, based on the LCT sensitivity evaluation table above. It should be emphasised that the overall rating represents the typical sensitivity across the entire LCT, reflecting the strategic nature of this study. Notable areas where sensitivity is higher or lower than typical are outlined within the table, however there may be more localised variations in sensitivity within this.

Development Type	A O N B	Reason for judgement	Overall Sensitivity
Large scale wind turbines, (up to 80m hub height)	OUT	Although the gently rolling landform, relatively large landscape scale, regular landscape pattern of arable fields and relatively low density of wildlife, earth science or cultural designations might reduce sensitivity to large scale wind turbines in some situations, in this case the open, elevated, exposed and strongly rural character, prominent and undeveloped skylines, and relatively high scenic quality with long uninterrupted views all increase sensitivity to the extent that overall, typical sensitivity to this scale of turbine is considered to be high.	High
	IN	The landscape characteristics and attributes outlined above apply equally within the AONB; however, in addition the AONB is nationally valued for its scenic qualities and natural beauty which ensure the highest level of sensitivity. The Grade I Registered parkland at Holkham Hall and the Conservation Areas of Holkham and Wells-next-the-Sea (and their associated clusters of listed buildings) also have sensitivities associated with them.	High
Medium scale wind turbines, (up to 60m hub height)	оит	The gently rolling landform, relatively large landscape scale, regular landscape pattern of arable fields and relatively low density of wildlife, earth science or cultural designations reduce sensitivity to medium scale wind turbines. However, the open, exposed and strongly rural character, prominent and undeveloped skylines, and relatively high scenic quality with long uninterrupted views, all increase sensitivity. Overall, typical sensitivity to this scale of turbine is considered to be moderate-high.	Moderate- High
		Localised areas of higher sensitivity relate to the Scheduled Monuments at Egmere and Crabb's Castle, Sculthorpe and West Raynham Conservation Areas which have their own specific cultural heritage sensitivities, and areas that are visible from the adjacent River Valleys LCT and close to the AONB, or where a development could affect the special qualities of the AONB.	
	IN	The landscape characteristics and attributes outlined above apply equally within the AONB; however, sensitivity is increased further due to the nationally valued scenic qualities and natural beauty of the landscape. Overall, typical sensitivity to this scale of turbine is considered to be high in the area of ROF that falls within the AONB.	High
		In addition, the Grade I Registered parkland at Holkham Hall, the Conservation Areas of Holkham and Wells-next-the-Sea (and their associated clusters of listed buildings) have additional cultural heritage sensitivities.	

Small scale wind turbines, (up to 30m hub height)	ООТ	The gently rolling landform, relatively large landscape scale, regular landscape pattern of arable fields and relatively low density of wildlife, earth science or cultural designations reduce sensitivity to small scale wind turbines. However, the open, exposed and strongly rural character, prominent and undeveloped skylines, and relatively high scenic quality with long uninterrupted views, all increase sensitivity. Overall, typical sensitivity to this scale of turbine is considered to be moderate. Localised areas of lower sensitivity include those where the strongly rural character diminishes and modern human influence is greater; notably around parts of the urban fringe of Fakenham, which has a busier character and larger-scale development is also visible on the skyline. Localised areas of higher sensitivity relate to the Scheduled Monuments at Egmere and Crabb's Castle, Sculthorpe and West Raynham Conservation Areas, areas close to landmark skyline features such as the church towers of St Mary and All Saints, Sculthorpe and St Peter, Dunton, and areas that are visible from the adjacent River Valleys LCT.	Moderate
	IN	The landscape characteristics and attributes outlined above apply equally within the AONB; however, sensitivity is increased further due to the nationally valued scenic qualities and natural beauty associated with the AONB. Overall, typical sensitivity to this scale of turbine is considered to be high in the area of ROF that falls within the AONB, due to proximity to the exposed coastline where the visibility of even small scale turbines on the skyline would be extensive, affecting its special qualities including the undeveloped coastal character, distinctive visual links between land and sea, and the sense of remoteness, tranquillity and wildness. In addition to the above, the Grade I Registered parkland at Holkham Hall, the Conservation Areas of Holkham and Wells-next-the-Sea (and their associated	High
Field-scale solar PV development (above 10 hectares site area)	ОПТ	Clusters of listed buildings) have additional cultural heritage sensitivities. The gently rolling landform, relatively large landscape scale, regular landscape pattern of arable fields and relatively low density of wildlife, earth science or cultural designations reduce sensitivity to field-scale solar PV development. However, the open, exposed and strongly rural character, with areas of visually prominent slopes and undeveloped skylines, low managed hedgerow field boundaries affording limited opportunities for localised screening, and relatively high scenic quality, all increase sensitivity. Overall, typical sensitivity to this type of development is considered to be moderate-high and any development would need to be site with care. Localised areas of lower sensitivity include those where flatter landform in	Moderate- High
	IN	combination with existing mature linear shelter belts, woodland blocks and higher hedgerows may afford greater visual screening and containment of solar panels. The landscape characteristics and attributes outlined above apply equally within the AONB; however, sensitivity is increased further due to the nationally valued scenic qualities and natural beauty of the landscape (the presence of PV panels could conflict with the undeveloped and naturalistic qualities of the AONB). Overall, typical sensitivity to this scale of turbine is considered to be high in the area of ROF that falls within the AONB. In addition, the Grade I Registered parkland at Holkham Hall, the Conservation Areas of Holkham and Wells-next-the-Sea (and their associated clusters of listed buildings) have additional cultural heritage sensitivities.	High
Onshore cable routes for offshore wind farms (30m – 80m clearance)	ОUТ	The relatively large landscape scale, regular landscape pattern and predominant landcover of arable fields and relatively low density of wildlife, earth science or cultural designations, reduce sensitivity to onshore cable routes. However, the presence of visible slopes, exposed and strongly rural character with long uninterrupted views increase sensitivity. Overall, typical sensitivity to this type of development is considered to be moderate. Localised areas of higher sensitivity relate to the Scheduled Monuments at Egmere and Crabb's Castle, Sculthorpe and West Raynham Conservation Areas, parkland at Cranmer and West Barsham, ancient woodland at Raby's Wood, and upper visible slopes.	Moderate

	IN	The landscape characteristics and attributes outlined above apply equally within the AONB; however, sensitivity is increased further due to the nationally valued scenic qualities and natural beauty associated with this area (cable laying could affect the undeveloped coastal character, sense of remoteness and tranquillity). Overall, typical sensitivity to underground cables is considered to be moderate-high in the areas of ROF that falls within the AONB. In addition, the Grade I Registered parkland at Holkham Hall, the Conservation Areas of Holkham and Wells-next-the-Sea (and their associated clusters of listed buildings) have additional cultural heritage sensitivities.	Moderate- High
Commercial battery storage schemes, Cable relay stations and sub-stations (for offshore wind farms) and Anaerobic digestion plants (typical size range 2.5 – 8 ha)		The gently rolling landform, relatively large landscape scale, regular landscape pattern of arable fields and relatively low density of wildlife, earth science or cultural designations reduce sensitivity to these types of development. However, the open, exposed and strongly rural character, with areas of visually prominent slopes and undeveloped skylines, limited opportunities for localised screening and relatively high scenic quality, all increase sensitivity. Overall, typical sensitivity to this type of development is considered to be moderate. Localised areas of lower sensitivity include those where the strongly rural character diminishes and modern human influence is greater; notably in the vicinity of Fakenham, which has a busier character and larger-scale development and infrastructure is also visible on the skyline. Further areas of lower sensitivity are associated with existing farm complexes containing larger-scale built form, such as storage sheds, and locations with higher visual screening/containment by planting or landform.	Moderate
		Localised areas of higher sensitivity relate to the Scheduled Monuments at Egmere and Crabb's Castle, Sculthorpe and West Raynham Conservation Areas, parkland at Cranmer and West Barsham, areas more remote from built development, and areas that are particularly visible/ prominent, including those areas visible from the adjacent River Valleys LCT.	
	IN	The landscape characteristics and attributes outlined above apply equally within the AONB; however, sensitivity is increased within the AONB due to the nationally valued scenic qualities and natural beauty associated with this landscape (the introduction of these types of development would likely adversely affect the undeveloped coastal character, remoteness and tranquillity of the area). Overall, typical sensitivity to underground cables is considered to be high in the areas of ROF that falls within the AONB. In addition, the Grade I Registered parkland at Holkham Hall, the Conservation Areas of Holkham and Wells-next-the-Sea (and their associated clusters of listed buildings) have additional cultural heritage sensitivities.	High
Reservoirs (typical size range 2 – 5ha)	OUT	The gently rolling landform, relatively large landscape scale, regular landscape pattern of arable fields and relatively low density of wildlife, earth science or cultural designations reduce sensitivity to reservoir development. However, the open, exposed and strongly rural character, with areas of visually prominent slopes and undeveloped skylines, and low managed hedgerow field boundaries affording limited opportunities for localised screening of reservoir embankments all increase sensitivity. Overall, typical sensitivity to this type of development is considered to be moderate. Localised areas of lower sensitivity include areas of lower lying land in natural bowls where less land modelling would be required, or in more enclosed areas where existing mature shelter belts and woodland blocks may afford greater visual screening and containment of reservoirs. Localised areas of higher sensitivity relate to the setting of Scheduled Monuments at Egmere and Crabb's Castle, Sculthorpe and West Raynham Conservation Areas, areas close to landmark skyline features such as the church towers of St Mary and All Saints, Sculthorpe and St Peter, Dunton, and areas visible from the adjacent River Valleys LCT.	Moderate

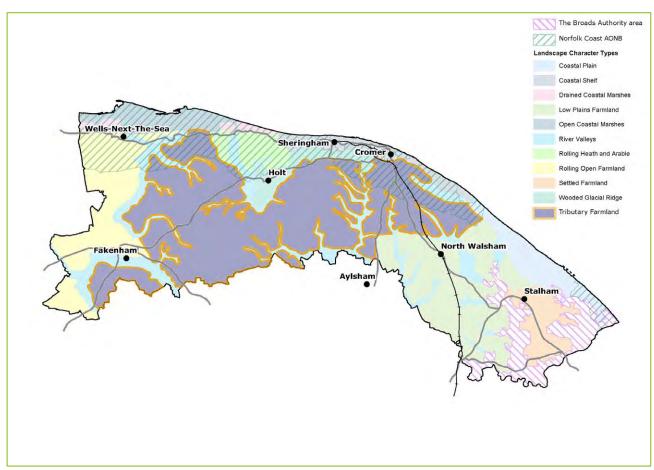
IP

The landscape characteristics and attributes outlined above apply equally within the AONB; however, sensitivity is increased further due to the nationally valued scenic qualities and natural beauty of this landscape. Overall, typical sensitivity to reservoir development in the AONB is considered to be moderate-high.

In addition, the Grade I Registered parkland at Holkham Hall is sensitive to any development that may affect its historic interest or views that are highlighted in the listing description. Similarly, the Conservation Areas of Holkham and Wells-next-the-Sea (and their associated clusters of listed buildings) are localised areas where sensitivity to such development is further raised due to high cultural heritage value.

Moderate-High





Baseline Landscape

Introduction to the Landscape Character Type

The Tributary Farmland Type is characterised by generally open and rolling/undulating rural farmland with some elevated plateau areas and a rich diversity of minor settlement, woodland and historic estates. As the name suggests, it forms the catchment area for a number of watercourses feeding into the main river valleys of the Stiffkey, Glaven and Bure. Two airfields are associated with flatter areas in the west of the Type (these are assessed separately and therefore excluded from consideration here).

Northern parts of the LCT fall within the Norfolk Coast AONB and a very small, discrete coastal area around Morston falls within the North Norfolk Heritage Coast. The coastal edge of the LCT also forms part of North Norfolk's Undeveloped Coast policy area.

Component Character Areas

There is one continuous area of Tributary Farmland in North Norfolk:

TF1 - North Norfolk Tributary Farmland

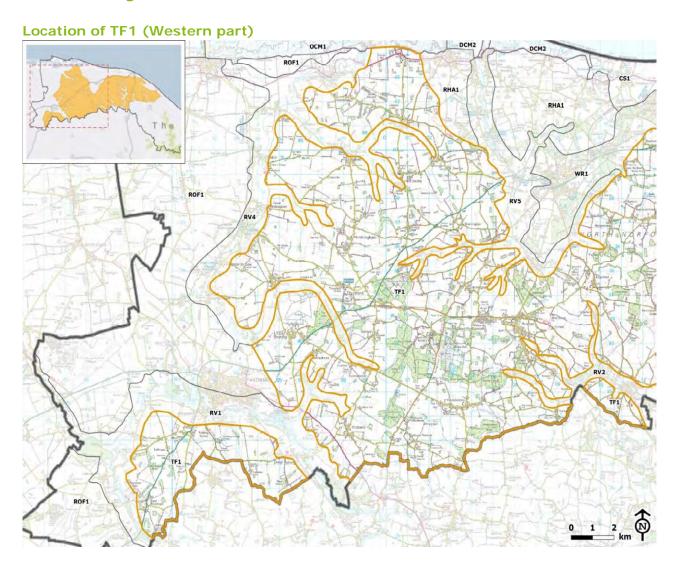
Key Characteristics¹

- Undulating terrain dissected by small river valleys with elevated, and occasionally expansive, open plateau areas
- A rural landscape in which arable land use predominates with pasture more common around the edges of villages and in proximity to the river valleys
- Hedgerows and mature hedgerow trees are frequent features within the landscape
- Woodland cover is locally prominent across the area in a variety of forms
- Historic parks and estates are a distinctive feature of the Landscape Type
- Settlement is typically rural villages with dispersed large houses and farmsteads in the wider landscape
- A network of rural lanes linking settlements
- Strong visual relationship between the valleys that dissect the landscape, the coast around
 Morston and the Wooded Glacial Ridge to the north

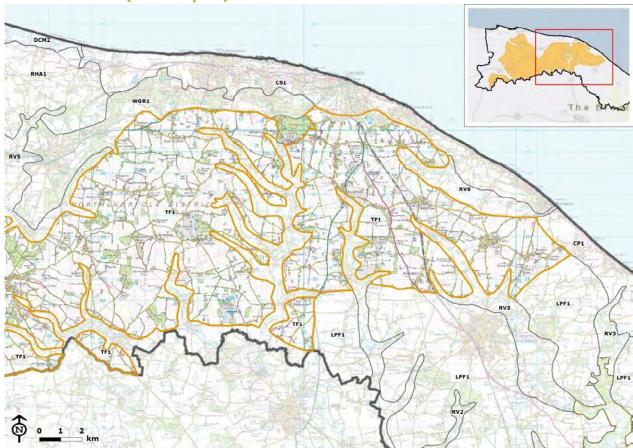
Valued features and qualities

- Strong rural character with a sense of remoteness and tranquillity
- Historic parklands
- Historic field patterns
- Woodland cover, hedgerows and hedgerow trees
- · Remnant semi-natural habitats
- Rural historic villages and vernacular buildings
- Rural lanes
- Long range views and prominent landscape features

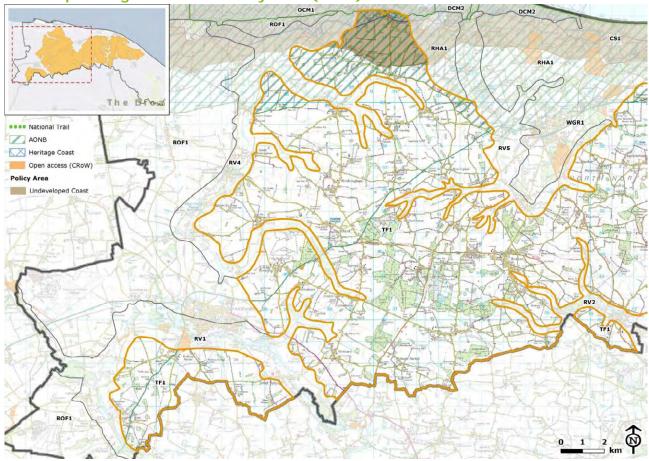
¹ Detailed information about landscape character and valued features is set out in the North Norfolk Landscape Character Asssessment (2018)

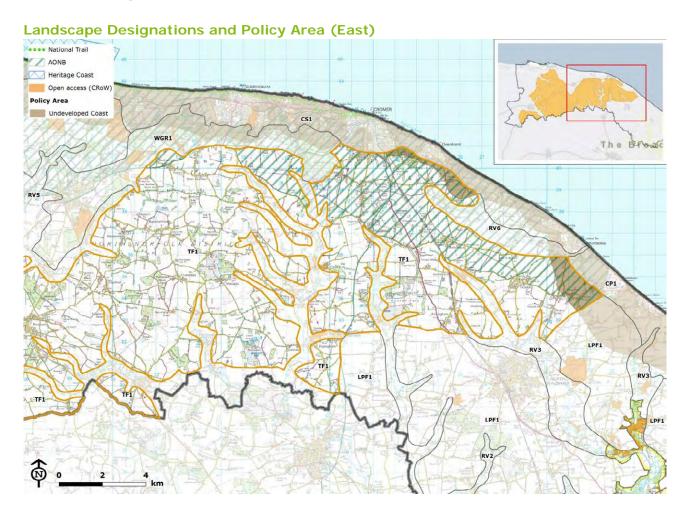


Location of TF1 (Eastern part)

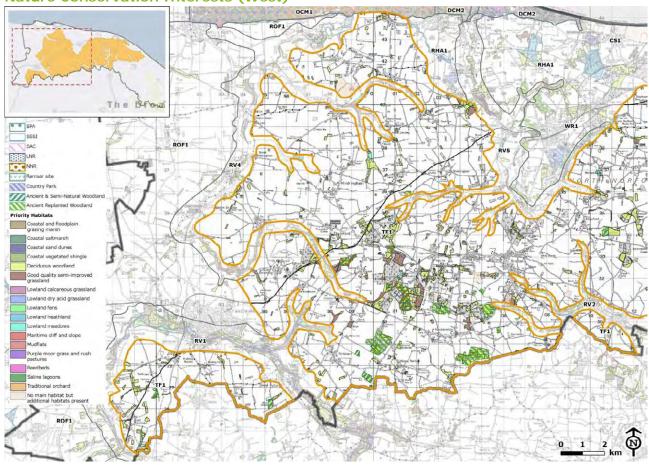




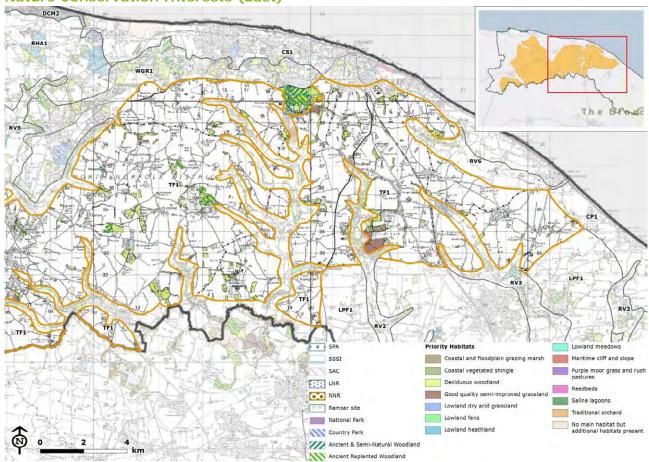




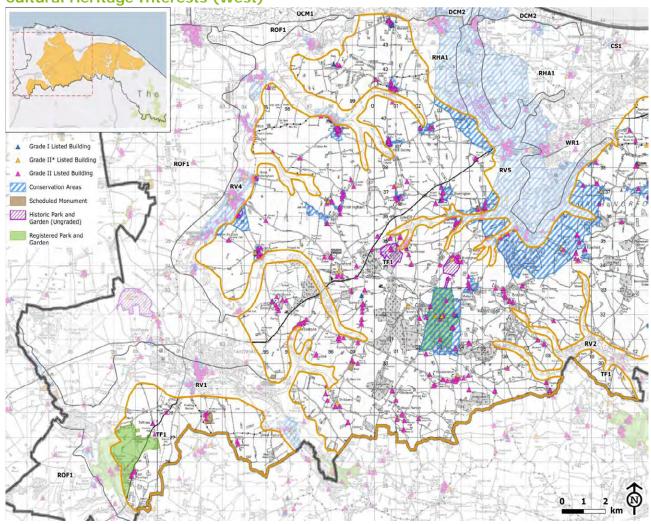
Nature Conservation Interests (West)



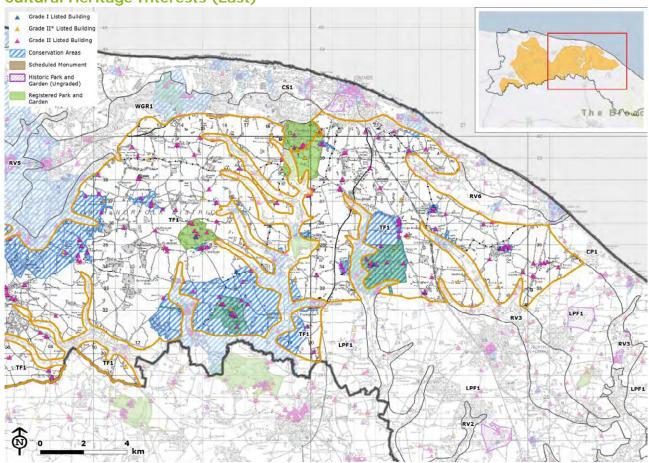
Nature Conservation Interests (East)



Cultural Heritage Interests (West)



Cultural Heritage Interests (East)



Landscape Sensitivity Evaluation

Criteria Appraisal

The following table illustrates the appraisal of the Tributary Farmland LCT against the sensitivity criteria which have been predetermined for the development types.

	increase	es generally e sensitivity levelopment	Attributes generally decrease sensitivity to the development type	↓	strono sensit	utes do gly influ ivity in directi	ience	_	Criter develonot ap		×	
Sensit Criteri	-	Characteristics of the	e LCT			of high opmen		ver sus	sceptib	oility ar	nd valu	ue for
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Susce	ptibilit	y Criteria										
Topogr & skyli		Undulating terrain diss valleys with elevated, a expansive, open platea undeveloped skylines f and woodland, occasion historic landmark featutowers. Localised areas contain modern vertical skyline, in the form of influence of the adjace Ridge Type in framing northern boundary of the wooded horizon is an infeature of this LCT. The results in localised areas sensitivity to lower-lying as solar farms, onshore relay stations, battery plants and reservoirs, a degree of slope and lar whilst the presence of features on a largely ungenerally increases susstructures such as winders.	and occasionally areas. Generally formed by farmland nally punctuated by ures, notably church is south of Fakenham all structures on the electricity pylons. The int Wooded Glacial a large part of the he LCT and forming a important component are varied landform as of higher and lowering developments such a cables and cable storage schemes, AD according to the indform screening, historic landmark indeveloped skyline sceptibility to taller	1	1	1						
Landco	over	Predominantly arable f around settlement edg frequent woodland, inc woodlands associated and their designed land extensive semi-natural The dominant arable/ in the middle of the se the majority of develop	es and valleys, and cluding planted with historic estates dscapes and some ancient woodlands. coasture landcover lies insitivity spectrum for	-	=	-		1			-	_

KEY	increase	es generally e sensitivity levelopment	Attributes generally decrease sensitivity to the development type	↓	strono sensit	utes do gly influ ivity in directi	ience	-		ion/ opment oplicabl		*
Sensi Criter	itivity ria	Characteristics of the	e LCT		ators o			ver su	sceptib	oility ar	nd val	ue for
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		for onshore cable route reduced as this type of recover from the temp Areas of naturalistic la ancient woodland and grassland, will have his development types.	f landcover is able to orary laying phase. ndcover, such as semi-improved									
Sense openn enclos	ness/	A generally open charal managed hedgerow be arable fields. This open the elevated plateau a uninterrupted views to Wooded Glacial Ridge shelter belts, areas of trees and higher hedge with older field boundar and river valleys, provuln the extensive areas character, the sense of relative lack of visual screening/containment to any new development.	oundaries to the inness is increased in reas, affording long wards the coast, the and inland. Linear woodland, hedgerow es, often associated aries, historic estates ide greater enclosure. of generally open f openness and	1	1	1	1	1	1	1	1	1
Scale (landfi and compo featur landso patter compl	onent res), cape rn &	Fields are generally of size which reduces ser developments such as and reservoirs. However in both size and shape intricate, small scale late particularly in proximit which increases sensitively developments. In additivernacular villages, nather farmsteads and historical introduces frequent hum which increase sensitively developments such as energy developments and reservoirs. Overabalance each other outdevelopments (larger)	sitivity to large scale larger wind turbines ver, there is variation, resulting in a more andscape pattern by to settlements ivity to larger scale tion, the presence of the prow rural lanes, control estates also man-scale features vity to larger scale the larger wind for larger solar farms and the larger scale to the larger		_			*				

increas	tes generally e sensitivity development	Attributes generally decrease sensitivity to the development type	↓	strong sensit	utes do gly influ tivity in directi	uence	_		ion/ opment oplicabl		×
Sensitivity Criteria	Characteristics of the	e LCT		ators o	_		ver sus	sceptib	oility a	nd val	ue for
	farms and reservoirs). The varied scale the landscape does not influence sensit one way or the other for the other developments such as smaller scale turbines and cable relay stations, batte storage or AD plants. A relative sense of tranquillity, remoter and traditional rurality prevails in large expanses of quiet farmland, due to the general absence of larger settlements limited main roads, and is reinforced by Undeveloped Coast policy area. These characteristics are locally reduced in so areas of greater modern human influen such as larger farm complexes, but ove		Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
	the landscape does no one way or the other f developments such as turbines and cable rela	t influence sensitivity or the other smaller scale									
Sense of tranquillity/ remoteness/ rurality & level of human influence Undeveloped Coast policy area	and traditional rurality expanses of quiet farm general absence of la limited main roads, an Undeveloped Coast po characteristics are loca areas of greater mode	prevails in large pland, due to the rger settlements and d is reinforced by the licy area. These ally reduced in some rn human influence, mplexes, but overall increased sensitivity	1	1	1	1	1	1	1	1	1
Time depth / historical continuity	The more common his within the LCT include 18 th , 19 th and 20 th cent enclosures. However, variety of other types, century co-axial enclosures ancient woodland and formal and informal pawith historic estates, pillages, all of which didepth and historical coareas, which occur free LCT, will exhibit locally and therefore this crite increased sensitivity to development.	relatively modern cury agricultural there is also a wide including pre-18 th sures, commons, numerous areas of arkland associated clus vernacular splay a stronger time intinuity. These quently across the increased sensitivity erion results in	1	1	1	1	1	1	1	1	1

increa	utes generally se sensitivity development	Attributes generally decrease sensitivity to the development type		strono sensit	utes do gly influ ivity in directi	ience	_	Criterion/ development type not applicable				
Sensitivity Criteria	Characteristics of the	e LCT		ators o	_		ver sus	sceptib	oility a	nd valu	ue for	
			Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs	
Value Crite	ria											
Presence of landscape designations and extent to which their special qualities could be affected	The coastal edge of the designated AONB. A sn around Morston is also Heritage Coast. Any of development under corstudy have the potential defined special qualitie particular the undevelopment of remoteness, twildness (and dark skie and distinctive visual lisea. As a result, the propositionally valued lands sensitivity to all forms or affecting these areas	maller coastal area within the defined the types of insideration in this all to affect the AONB's is to some extent, in insped coastal character, ranquillity and es), and the strong inks between land and esence of these capes increases of development within	1	1	1	1	1	1	1	1	1	
Other indicators of value	High scenic quality: The landscape outside Heritage Coast displays scenic quality by virtue historic vernacular sett horizons and remnant and hedgerows, which the extensive, gently u arable farmland. Representativeness:	s a moderate to high of the combination of lements, treed field /roadside oaks is counterbalanced by	1		1	1	1	1	1	1	1	
	The majority of the LC arable farmland, althou number of notable hist increases sensitivity in Rarity: Some rare landscape type co-axial enclosures), although the LC arable for the LC arable	ugh there are a oric parks which those areas.									_	

KEY	increas	tes generally e sensitivity development	Attributes generally decrease sensitivity to the development type	↓	Attributes do not strongly influence sensitivity in either direction				Criterion/ development type not applicable			×
Sensitivity Criteria		Characteristics of the LCT			ators o	_		ver sus	sceptik	oility a	nd val	ue for
				arge scale Wind Furbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		Intactness:			_	<i>0)</i> ∔	<u> </u>		_ O %	O S	4 0	
		Intactness of the lands adversely affected by 2 agriculture and associa removals, coupled with hedgerows have not be However, areas of new plantings also exist, ar some of the most intact ancient woodland in No of relatively intact histovillages. These balance neutral influence on secare will be needed in	20 th century intensive ated hedgerow in areas where een maintained. It recent hedgerow in the Type contains at areas of designated prfolk, and a number poric estates and e each other out to a institivity (although		_	_	_		-			-
		Nature conservation & interests:	cultural heritage									
		Heritage assets are free numerous Registered Foundation Constable, Gun Mannington, Wolterton Conservation Areas, Sound isolated listed build and farmhouses.	Parks & Gardens (, ton Barningham, n), a variety of cheduled Monuments	1	1	1	1	1	1	1	1	1
		Nature conservation de scattered across the LC associated with areas of including the Swanton SSSI. Smaller sites inc Great Barn SAC and NI with the Coastal Plain I Knapton Cutting and S Local Nature Reserves.	CT, and are primarily of ancient woodland, Novers NNR and llude the Paston NR (on the boundary LCT), and the outhrepps Common	1	1	1	1	1	1	1	1	1
		These features together to all development typ										
		Recreational value:										
		Small, isolated areas of (commons) are scatter and several recreations PRoWs cross the LCT,	red across the LCT, al routes and other	_	_	_	_	_	_	_	_	_

KEY	increas	es generally e sensitivity decrease sensitivity to the development type			Attributes do not strongly influence sensitivity in either direction			Criterion/ development type not applicable			×		
	Sensitivity Characteristics of the LCT Criteria			Indicators of higher/lower susceptibility and value for each development type									
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs	
		section of the Norfolk LCT meets the coast a recreational use tends in the adjacent coasta Literary / artistic asso Discrete areas of the landscape have a numartistic associations, in works by the renowne painter John Sell Cotmpoetry by George Bark Church' (1959); and theath) where Albert Efollowing his departure 1933. Historic parklan associations with the pentury landscape des Repton, who influence design at Gunton Hall Hall.	round Morston, but to be more focussed I LCTs. Ciations: Tributary Farmland aber of literary and including featuring in d Norfolk landscape inan (1782-1842); ser 'At Thurgarton the location (Roughton instein briefly stayed the from Germany in ds also have strong brominent 18 th & 19 th signer Humphry d the landscape										

NB Airfields within TF are specifically excluded from the sensitivity assessment at Landscape Character Type level, as these are subject to their own individual assessments within Appendix 2.

Overall sensitivity to different development types

The following table provides an overall sensitivity rating, and justification for that rating, in relation to the relevant development types, based on the LCT sensitivity evaluation table above. It should be emphasised that the overall rating represents the typical sensitivity across the entire LCT, reflecting the strategic nature of this study. Notable areas where sensitivity is higher or lower than typical are outlined within the table, however there may be more localised variations in sensitivity within this.

Development Type	A 0	Reason for judgement	Overall Sensitivity
	N B		
Large scale wind turbines, (up to 80m hub height)	оит	Although the gently undulating landform, relatively large landscape scale and typically regular landscape pattern of arable fields might reduce sensitivity to large scale wind turbines in some situations, in this case the open, exposed and strongly rural character, prominent and undeveloped skylines, frequent vernacular settlements, cultural heritage and nature conservation designations, and relatively high scenic quality with long uninterrupted views affording extensive intervisibility throughout this large LCT all increase sensitivity to the extent that the typical sensitivity to this scale of turbine is considered to be high.	High
	IN	The landscape characteristics and attributes outlined above apply equally within the AONB, which in this LCT is characterised by areas of particularly open, elevated and undeveloped character with a strong relationship with the sea, contributing to the AONB's nationally valued scenic qualities and natural beauty, which ensure the highest level of sensitivity. Overall, typical sensitivity to this scale of turbine is considered to be high in the area of TF that falls within the AONB.	High
		In addition, the Registered parkland at Melton Constable, Barningham Hall, Gunton Hall, Raynham Hall and Mannington and Wolterton, and the numerous Conservation Areas within the Type also have cultural heritage / nature conservation sensitivities associated with them.	
Medium scale wind turbines, (up to 60m hub height)	OUT	Although the gently undulating landform, relatively large landscape scale and typically regular landscape pattern of arable fields might reduce sensitivity to medium scale wind turbines in some situations, in this case the open, exposed and strongly rural character, prominent and undeveloped skylines, frequent vernacular settlements, cultural heritage and nature conservation designations, and relatively high scenic quality with long uninterrupted views affording extensive intervisibility throughout this large LCT, all increase sensitivity to the extent that overall, typical sensitivity to this scale of turbine is considered to be high.	Moderate- High
	IN	The landscape characteristics and attributes outlined above apply equally within the AONB. In addition, the particularly open, elevated and undeveloped character with a strong relationship with the sea contribute to the AONB's nationally valued scenic qualities and natural beauty, which ensure the highest level of sensitivity. Typical sensitivity to this scale of turbine is considered to be high in the area of TF that falls within the AONB.	- High
		In addition, the registered parkland at Melton Constable, Barningham Hall, Gunton Hall, Raynham Hall and Mannington and Wolterton, and the numerous Conservation Areas also have cultural heritage / nature conservation sensitivities associated with them.	

Small scale wind turbines, (up to 30m hub height)	OUT	Although the gently undulating landform, relatively large landscape scale and typically regular landscape pattern of arable fields might reduce sensitivity to small scale wind turbines in some situations, in this case the open, exposed and strongly rural character, prominent and undeveloped skylines, frequent vernacular settlements, cultural heritage and nature conservation designations, and relatively high scenic quality with long uninterrupted views affording extensive intervisibility throughout this large LCT all increase sensitivity to the extent that typical sensitivity to this scale of turbine is considered to be moderate. There are localised areas of higher sensitivity in proximity to the river valleys which dissect this landscape, in proximity to cultural heritage designations such as registered parks and gardens and where they may be seen in combination with landmark church towers.	Moderate
	IN	The landscape characteristics and attributes outlined above apply equally within the AONB. In addition, the particularly open, elevated and undeveloped character with a strong relationship with the sea contribute to the AONB's nationally valued scenic qualities and natural beauty, which ensure the highest level of sensitivity. Typical sensitivity to this scale of turbine is considered to be high in the area of TF that falls within the AONB. In addition, the registered parkland at Melton Constable, Barningham Hall, Gunton Hall, Raynham Hall and Mannington and Wolterton, and the numerous Conservation Areas also have cultural heritage / nature conservation sensitivities associated with them.	High
Field-scale solar PV development (above 10 hectares site area)	OUT	The gently undulating landform, relatively large landscape scale and typically regular landscape pattern of arable fields reduce sensitivity to field-scale solar PV development. However, the open, exposed and strongly rural character, with areas of visually prominent slopes and undeveloped skylines, frequently low managed hedgerow field boundaries affording limited opportunities for localised screening, and relatively high scenic quality, all increase sensitivity. Overall, typical sensitivity to this type of development is considered to be moderate-high and any development would need to be sited with care.	Moderate- High
	IN	Localised areas of lower sensitivity include those where flatter landform in combination with existing mature linear shelter belts, woodland blocks and higher hedgerows may afford greater visual screening and containment of solar panels. The landscape characteristics and attributes outlined above apply equally within the AONB; however, sensitivity is increased further within the AONB due to the nationally valued scenic qualities and natural beauty of the landscape (the presence of PV panels could conflict with the undeveloped and naturalistic qualities of the AONB). Typical sensitivity to field-scale solar PV development is considered to be high in the area of TF that falls within the AONB. In addition, the registered parkland at Melton Constable, Barningham Hall, Gunton Hall, Raynham Hall and Mannington and Wolterton, and the numerous Conservation Areas also have cultural heritage / nature conservation sensitivities associated with them.	High
Onshore cable routes for offshore wind farms (30m – 100mclear ance)	ОПТ	The relatively large landscape scale, regular landscape pattern and predominant landcover of arable fields reduce sensitivity to onshore cable routes. However, the presence of visible slopes, exposed and strongly rural character with long uninterrupted views, frequent vernacular settlements, cultural heritage and nature conservation designations (in particular the extensive and intact ancient woodlands), and relatively high scenic quality increase sensitivity. Overall, typical sensitivity to this type of development is considered to be moderate, subject to careful routeing to avoid the more sensitive areas. Two existing cable routes (Sheringham Shoal and Dudgeon) already traverse this LCT (from Bodham to Saxthorpe) and another route (Hornsea Project Three) is in the planning stages. Such national infrastructure projects will need to be facilitated, whilst ensuring that the valued attributes and sensitivities of each landscape Type are upheld Localised areas of higher sensitivity relate to nature conservation and cultural heritage designations (e.g. Swanton Novers NNR & SSSI, and registered parkland at Melton Constable, Gunton, Barningham and Wolterton), and upper visible slopes.	Moderate

Tributary Farmland (TF)

IN The landscape characteristics and attributes outlined above apply equally within the AONB: however, sensitivity is increased further due to the nationally valued scenic qualities and natural beauty associated with this area (cable laying could affect the temporary period). Overall, hybical sensitivity to underground cables is considered to the moderate-high in the areas of T-Fital fall within the AONB. In addition, the registered parkland at Meton Constable, Barningham Hall, Gunton Hall, Raynham Hall and Mannington and Wolterton, and the numerous Conservation Areas also have cultural heritage? Industries of the AONB. The gently undulating landform, relatively large landscape scale, typically regular landscape pattern of arable fields and presence of some forestry plantations specified and sub-stations (for offshore wind farms) and sub-stations and sub-stations and sub-stations (for offshore wind farms) and sub-stations and sub-stations (production) and sub-stations and sub-stations and sub-stations and AD plants. However, the predominantly open, exposed and strongly rural character, with areas of visually prominent slopes and undeveloped skylines, limited opportunities for localised screening away from the scattered woodland, frequent veronocard settlements, cultural heritage and nature conservation designations, and relatively high scenic quality with long uninterrupted views, all increase sensitivity. Overall, typical sensitivity to this type development is considered to be moderate and any development would need to be side with care. Localised areas of higher sensitivity relates to the more naturalistic landscow such as unimproved/semi-natural grassland and nativo/ancient woodland (e.g. Swanton Novers), rear/historic, landscape types such as to-acide enclosures around Wood Norton, Bale & Briston, and in the vicinity of landmark historic skyline features (e.g. church towers) and Conservation Areas? Registered Parkland such as Gunton, Barringham, Raynham, Wolterfon, Mannington and Meton Constable, Barni				
landscape pattern of arable fields and presence of some forestry plantations providing associated enclosure reduce sensitivity to battery storage schemes, cable relay stations and sub-stations and sub-stations of the stations and sub-stations and sub-stations (for offshore wind farms) and Anaerobic digestion plants (typical size range 2.5 – 9 ha) - The landscape date of the station of the stationary of t		IN	AONB; however, sensitivity is increased further due to the nationally valued scenic qualities and natural beauty associated with this area (cable laying could affect the undeveloped coastal character, sense of remoteness and tranquillity for a temporary period). Overall, typical sensitivity to underground cables is considered to be moderate-high in the areas of TF that fall within the AONB. In addition, the registered parkland at Melton Constable, Barningham Hall, Gunton Hall, Raynham Hall and Mannington and Wolterton, and the numerous Conservation Areas also have cultural heritage / nature conservation sensitivities associated with	
as unimproved/semi-natural grassland and native/ancient woodland (e.g. Swanton Novers), rare/historic landscape types such as co-axial enclosures around Wood Norton, Bale & Briston, and in the vicinity of landmark historic skyline features (e.g. church towers) and Conservation Areas ? Registered Parkland such as Gunton, Barningham, Raynham, Wolterton, Mannington and Melton Constable, areas more remote from built development, and areas that are particularly visible/ prominent, including those areas visible from the adjacent River Valleys LCT. IN The landscape characteristics and attributes outlined above apply equally within the AONB; however, sensitivity is increased within the AONB due to the nationally valued scenic qualities and natural beauty associated with this landscape (the introduction of these types of development would likely adversely affect the undeveloped coastal character, remoteness and tranquility of the area). Overall, typical sensitivity to industrial type developments is considered to be high in the areas of TF that fall within the AONB. In addition, the registered parkland at Melton Constable, Barningham Hall, Gunton Hall, Raynham Hall and Mannington and Wolterton, and the numerous Conservation Areas also have cultural heritage / nature conservation sensitivities associated with them. Reservoirs (typical size range 2 – 5ha) OUT The gently undulating landform, relatively large landscape scale and typically regular landscape pattern of arable fields reduce sensitivity to reservoir development. However, the open, exposed and strongly rural character, with areas of visually prominent slopes and undeveloped skylines, frequently low managed hedgerow field boundaries affording limited opportunities for localised screening, and relatively high scenic quality, all increase sensitivity to this type of development is considered to be moderate. Localised areas of lower sensitivity include areas of lower lying land in natural bowls where less land modelling would be required, or in more enclosed a	battery storage schemes, Cable relay stations and sub-stations (for offshore wind farms) and Anaerobic digestion plants (typical size range 2.5	оит	landscape pattern of arable fields and presence of some forestry plantations providing associated enclosure reduce sensitivity to battery storage schemes, cable relay stations/ sub-stations and AD plants. However, the predominantly open, exposed and strongly rural character, with areas of visually prominent slopes and undeveloped skylines, limited opportunities for localised screening away from the scattered woodland, frequent vernacular settlements, cultural heritage and nature conservation designations, and relatively high scenic quality with long uninterrupted views, all increase sensitivity. Overall, typical sensitivity to this type of development is considered to be moderate and any development would need to be sited with care. Localised areas of lower sensitivity are associated with existing farm complexes containing larger-scale built form, such as storage sheds, and locations with higher visual screening/containment by planting or landform.	Moderate
AONB; however, sensitivity is increased within the AONB due to the nationally valued scenic qualities and natural beauty associated with this landscape (the introduction of these types of development would likely adversely affect the undeveloped coastal character, remoteness and tranquillity of the area). Overall, typical sensitivity to industrial type developments is considered to be high in the areas of TF that fall within the AONB. In addition, the registered parkland at Melton Constable, Barningham Hall, Gunton Hall, Raynham Hall and Mannington and Wolterton, and the numerous Conservation Areas also have cultural heritage / nature conservation sensitivities associated with them. Reservoirs (typical size range 2 – 5ha) OUT The gently undulating landform, relatively large landscape scale and typically regular landscape pattern of arable fields reduce sensitivity to reservoir development. However, the open, exposed and strongly rural character, with areas of visually prominent slopes and undeveloped skylines, frequently low managed hedgerow field boundaries affording limited opportunities for localised screening, and relatively high scenic quality, all increase sensitivity. Overall, typical sensitivity to this type of development is considered to be moderate. Localised areas of lower sensitivity include areas of lower lying land in natural bowls where less land modelling would be required, or in more enclosed areas where existing mature shelter belts and woodland blocks may afford greater visual screening and containment of reservoirs. Localised areas of higher sensitivity relate to the more naturalistic landcover such as unimproved/semi-natural grassland and native/ancient woodland (e.g. Swanton Novers), rare/historic landscape types such as co-axial enclosures around Wood			as unimproved/semi-natural grassland and native/ancient woodland (e.g. Swanton Novers), rare/historic landscape types such as co-axial enclosures around Wood Norton, Bale & Briston, and in the vicinity of landmark historic skyline features (e.g. church towers) and Conservation Areas / Registered Parkland such as Gunton, Barningham, Raynham, Wolterton, Mannington and Melton Constable, areas more remote from built development, and areas that are particularly visible/ prominent,	
Reservoirs (typical size range 2 – 5ha) The gently undulating landform, relatively large landscape scale and typically regular landscape pattern of arable fields reduce sensitivity to reservoir development. However, the open, exposed and strongly rural character, with areas of visually prominent slopes and undeveloped skylines, frequently low managed hedgerow field boundaries affording limited opportunities for localised screening, and relatively high scenic quality, all increase sensitivity. Overall, typical sensitivity to this type of development is considered to be moderate. Localised areas of lower sensitivity include areas of lower lying land in natural bowls where less land modelling would be required, or in more enclosed areas where existing mature shelter belts and woodland blocks may afford greater visual screening and containment of reservoirs. Localised areas of higher sensitivity relate to the more naturalistic landcover such as unimproved/semi-natural grassland and native/ancient woodland (e.g. Swanton Novers), rare/historic landscape types such as co-axial enclosures around Wood		IN	AONB; however, sensitivity is increased within the AONB due to the nationally valued scenic qualities and natural beauty associated with this landscape (the introduction of these types of development would likely adversely affect the undeveloped coastal character, remoteness and tranquillity of the area). Overall, typical sensitivity to industrial type developments is considered to be high in the areas of TF that fall within the AONB. In addition, the registered parkland at Melton Constable, Barningham Hall, Gunton Hall, Raynham Hall and Mannington and Wolterton, and the numerous Conservation Areas also have cultural heritage / nature conservation sensitivities associated with	High
Manningham and Melton Constable, and areas that are particularly visible/	(typical size	ОИТ	The gently undulating landform, relatively large landscape scale and typically regular landscape pattern of arable fields reduce sensitivity to reservoir development. However, the open, exposed and strongly rural character, with areas of visually prominent slopes and undeveloped skylines, frequently low managed hedgerow field boundaries affording limited opportunities for localised screening, and relatively high scenic quality, all increase sensitivity. Overall, typical sensitivity to this type of development is considered to be moderate. Localised areas of lower sensitivity include areas of lower lying land in natural bowls where less land modelling would be required, or in more enclosed areas where existing mature shelter belts and woodland blocks may afford greater visual screening and containment of reservoirs. Localised areas of higher sensitivity relate to the more naturalistic landcover such as unimproved/semi-natural grassland and native/ancient woodland (e.g. Swanton Novers), rare/historic landscape types such as co-axial enclosures around Wood Norton, Bale & Briston, registered parkland such as Gunton, Wolterton,	

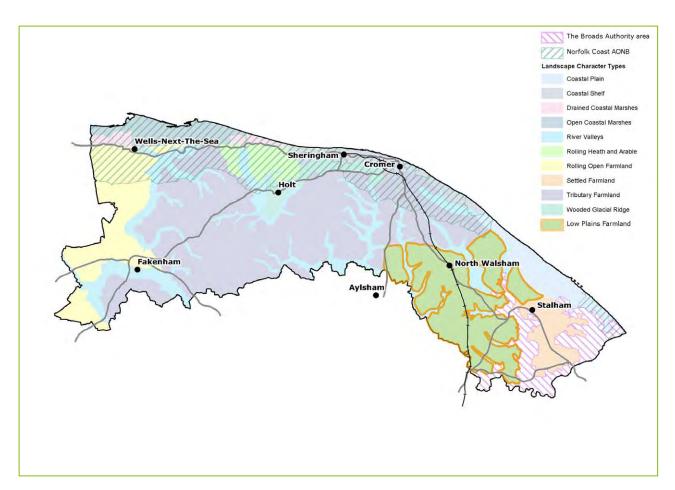
Tributary Farmland (TF)

The landscape characteristics and attributes outlined above apply equally within the AONB. In addition, the particularly open, elevated and undeveloped character with a strong relationship with the sea, contribute to the AONB's nationally valued scenic qualities and natural beauty, which increase sensitivity. The introduction of reservoirs could adversely affect the undeveloped coastal character, remoteness and tranquillity of the area. Therefore, typical sensitivity to reservoir developed is considered to be moderate-high in the area of TF that falls within the AONB.

Moderate-High

. The registered parkland at Melton Constable, Barningham Hall, Gunton Hall, Raynham Hall and Mannington and Wolterton, and the numerous Conservation Areas have cultural heritage / nature conservation sensitivities associated with them.





Baseline Landscape

Introduction to the Landscape Character Type

The Low Plains Farmland Type is characterised by a flat or gently undulating open landscape with long, uninterrupted views, predominantly arable land use and dispersed rural settlements, including the expanding market town of North Walsham. The landscape becomes less enclosed and wooded towards the coast, as a result of 20th Century agriculture and hedgerow removals.

A very small area (c.21ha) in the far north of the LCT around Paston falls within the Norfolk Coast AONB. The south-eastern part of the LCT borders the Broads, which have the status of a national park. The coastal edge of the LCT also forms part of North Norfolk's Undeveloped Coast policy area.

Component Character Areas

There is one large continuous area of Low Plains Farmland in North Norfolk:

LPF1 - North Norfolk Low Plains Farmland

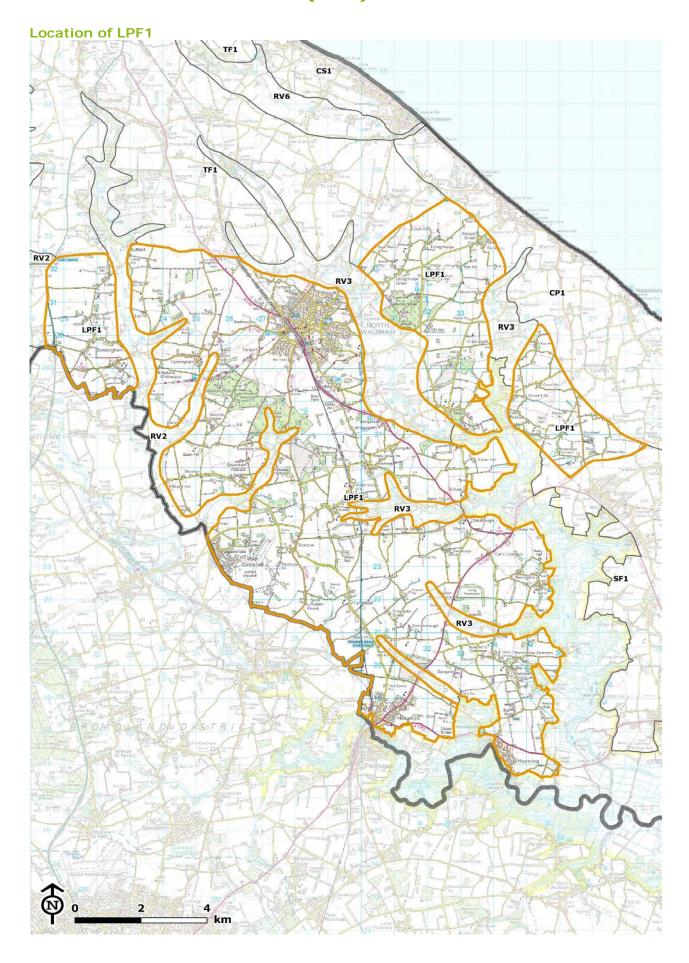
Key Characteristics¹

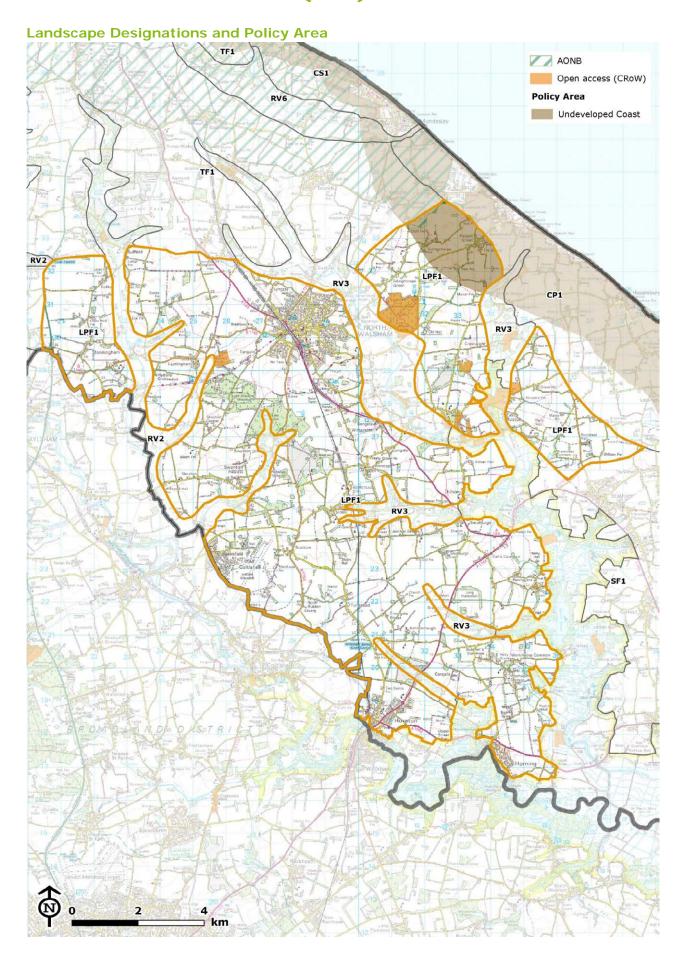
- Flat or very gently undulating terrain, draining by small streams
- A rural landscape in which arable land use predominates with pasture more common closer to the river valleys and the Broads
- An open landscape with large fields and low hedges
- Grassed bank and ditch field boundary features
- A 'copse and small wood landscape'
- Remnant heaths
- Areas of parkland and estates
- · Settlement comprises market towns, rural villages, hamlets and dispersed farmsteads
- RAF Coltishall
- A network of rural lanes linking settlements
- An expansive landscape with long views and church towers as landmark features

Valued features and qualities

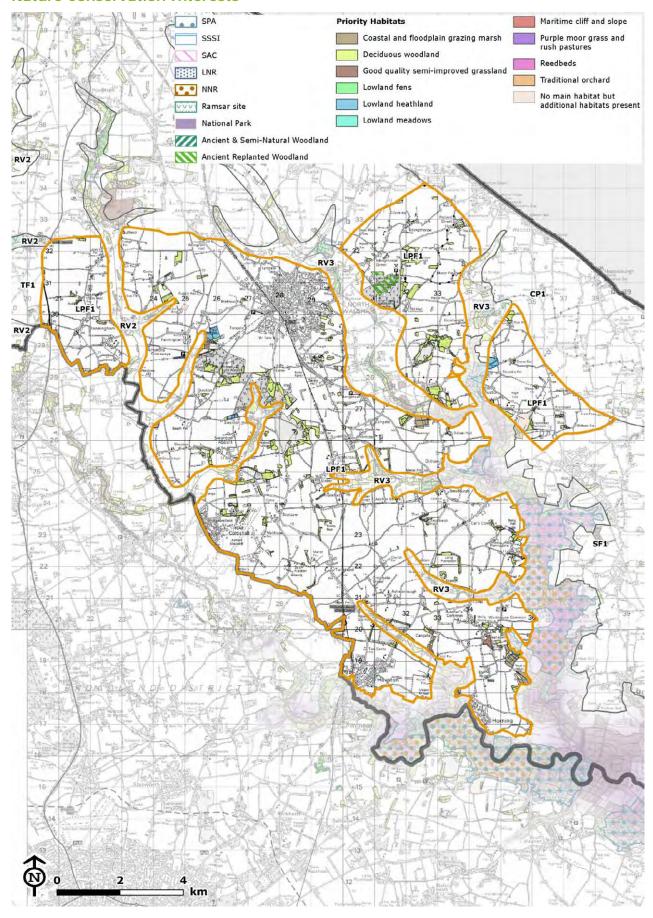
- Strong rural character with a sense of remoteness and tranquillity
- Historic parklands
- Woodlands, hedgerows and hedgerow trees
- · Remnant semi-natural habitats
- Historic market towns and villages with vernacular buildings
- Rural lanes
- RAF Coltishall
- Long views punctuated by distinctive skyline features including numerous church towers

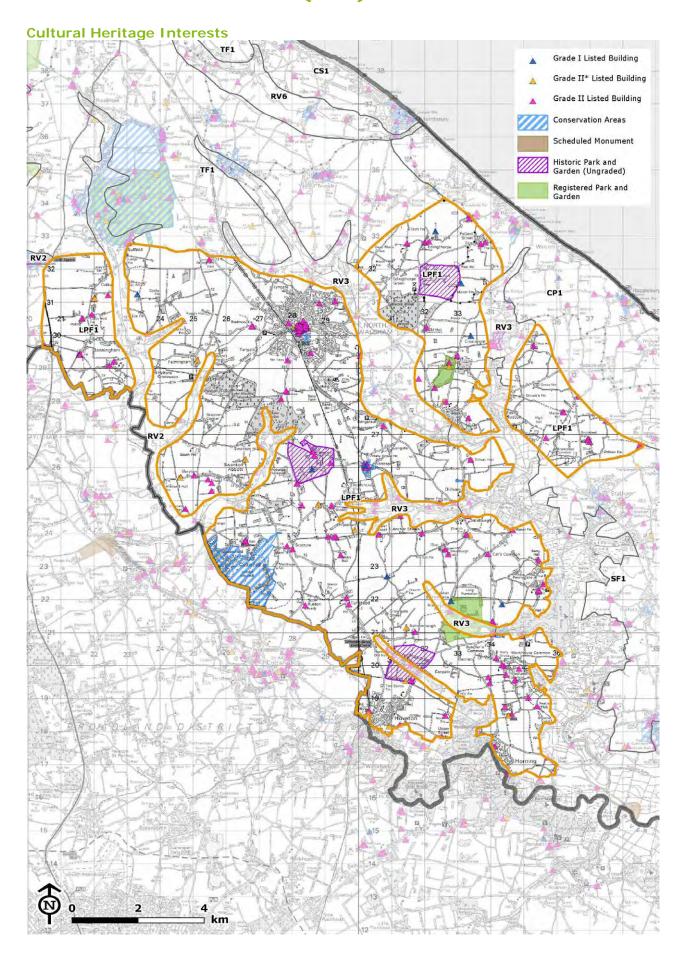
¹ Detailed information about landscape character and valued features is set out in the North Norfolk Landscape Character Asssessment (2018)





Nature Conservation Interests





Landscape Sensitivity Evaluation

The following table illustrates the appraisal of the Low Plains Farmland LCT against the sensitivity criteria which have been predetermined for the development types under consideration.

KEY	increa	utes generally use sensitivity to evelopment type	Attributes generally decrease sensitivity to the development type	Ţ	stron	utes do gly influ ivity in ion	ience		d t <u>y</u>	riterion/ evelopm ype not pplicable	nent	×
	Sensitivity Characteristics of the LCT Criteria		he LCT	Indicators of higher/lower susceptibility and value for each development type								ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Susce	ptibilit	y Criteria										
Topogr & skyli		common where the L valleys which dissect flattest areas border north of the LCT is hi undulating. Skylines are generall formed by farmland a frequently punctuate towers. Localised are North Walsham contathe skyline, such as a scale industry/comm housing. The generally flat lart to all forms of develores evoirs, whilst the increase sensitivity to	in limited areas with opes. Slopes are more in limited areas with opes. Slopes are more in limited areas with opes. Slopes are more in limited are more in limited areas the gher and less. In y undeveloped and and woodland, and fairly in limited around areas within and around areas and areas within a within	1	1	1	1					1
Landco	over	and the valleys/Broa woodlands, parkland heathland. The pred landcover does not s sensitivity in either o onshore cable routes	th of the landscape, ture around settlement ds, scattered is and remnant ominant arable strongly influence direction, except for is, as arable farmland is in from the temporary of the areas of semi- ld have a higher	_	_	_	_	1	-	_	-	_

KEY	increa	utes generally use sensitivity to evelopment type	Attributes generally decrease sensitivity to the development type	Î	stron	utes do gly influ tivity in :ion	ience	_	de ty	iterion/ evelopm pe not oplicable	ent	×
Sensiti Criteria	ensitivity Characteristics of the LCT riteria					of high velopn			sceptib	oility ar	nd valu	ae
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Sense of openner enclosu	ss/	bounded by low gras widespread hedgerov extensive areas of gethe sense of opennes visual screening/ consensitivity to any new Localised areas of grovided by mature of many roads and field	arable fields typically is banks due to vermoval. In the enerally open character, is and relative lack of tainment increases vertically development. The eater enclosure are back trees, which line boundaries, scattered ensive such as Bacton with of Westwick, and the landform and	1	1	1	1	1	1	1	1	1
Scale (landfor and compor features landsca pattern complex	nent s), pe &	developments such a and solar farms. How variation in both size in a more intricate, s pattern in proximity river valleys which in larger scale development of vernacular rural lanes, farmsteat isolated churches and also introduces relatiscale features which sensitivity to larger solverall, these scale for	ensitivity to larger scale is larger wind turbines wever, there is and shape, resulting mall scale landscape to settlements and the creases sensitivity to ments. In addition, the ar villages, narrow ds, historic estates, difield/roadside trees wely frequent humanalso increase cale developments. actors balance each er scale developments, solar farms and ed scale of the trongly influence in the other for the such as smaller scale day stations, battery					**				
Sense of tranquil remoter	llity/	The rural settlement are large areas of qu dark skies at night in	iet rural farmland and	Î	1	1	1	1	1	1	1	1

KEY	increa	utes generally se sensitivity to evelopment type	Attributes generally decrease sensitivity to the development type	Ţ	strong	utes do gly influ ivity in ion	ience		d ty	riterion/ evelopm /pe not pplicable	nent	×
Sensit Criteri	-	Characteristics of the	he LCT			of high velopn			scepti	bility ar	nd valu	ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
rurality level of human influend Undeve Coast p area	ce eloped	sensitivity to all form under consideration. also recognised and r Undeveloped Coast p	quillity, which increase is of development. These qualities are reinforced by the olicy area. of North Walsham and the location where obtably higher than is older of the LCT, with the old traffic, which									
Time do	al	within the LCT includ 18 th , 19 th and 20 th ce enclosures, which occord the area and typic depth, reducing sens development under compared the sensitive of the area and typically occur and typically occur and typically occur and typically occur ancient woodland, 17 rectilinear grazing management was and water	ntury agricultural cupy the vast majority ally have a low time itivity to all forms of onsideration. o a variety of other frequently across the upy discrete, smaller informal parkland, with — 20th century earsh, enclosed meadows (in close eys and Broads), which time depth and and therefore	1	1	1	1	1	1	1	1	↓

KEY	increa	utes generally use sensitivity to evelopment type	Attributes generally decrease sensitivity to the development type	↓	stron	utes do gly influ ivity in ion	ience	_	d ty	riterion/ evelopm /pe not pplicable	nent	×
Sensit Criteri	ensitivity Characteristics of the LCT iteria					_	er/lov		sceptil	bility aı	nd valu	ie
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Value	Criteri	a										
Present landsca designa and ex to which their sp qualities could be affected	ape ations tent ch oecial es	the north of the area The south-eastern pa but is not within, the Any of the types of d consideration in this to affect the AONB's to some extent, in pa undeveloped coastal remoteness, tranquill dark skies), and the visual links between result, the presence o valued landscapes in	e LCT is a very small past AONB (c.21ha), in around Paston. art of the LCT borders, Broads. evelopment under study have the potential defined special qualities articular the character, sense of lity and wildness (and strong and distinctive land and sea. As a of these nationally creases sensitivity to all it within or potentially	1	1	1	1	1	1	1	1	1
Other indicate value	ors of	scenic quality by virt large scale, gently ur arable farmland, in co occasional historic ve landmark church tow	pically of a moderate ue of the medium to ndulating and regular	-	_	_	-	_	_	_	-	-
		Representativeness: The landscape is not example of arable far Rarity: Few rare landscape to		<u>1</u>	1 1	1 1	<u>1</u>	1 1	1	1	1	1

KEY	increa	outes generally ase sensitivity to evelopment type	Attributes generally decrease sensitivity to the development type	Ţ	strono	utes do gly influ ivity in ion	ience	_	de ty	riterion/ evelopm pe not oplicable	nent	×		
	Sensitivity Characteristics of the LCT Criteria					Indicators of higher/lower susceptibility and value for each development type								
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs		
		Intactness:												
		has has been advers century intensive agr hedgerow removals, where hedges have r	ciculture and associated coupled with areas not been maintained ssed in some areas by	Î	1	1	1	1	1	1	1	1		
		any nature conservat Where present, desig discrete, such as the very small designate adjacent Broads (Bro	the LCT is not subject to tion designations. gnations are small and Bryant's Heath SSSI, or d areas from the hadland SAC, SPA, htly beyond the Broads	_	_	-		_	_	_	_	_		
		marsh and semi-imp Cultural heritage ass the LCT, mainly in th buildings. There are Areas (North Walsha Coltishall and Dilham and two registered p (Honing Hall and Bee Recreational value: The LCT contains a ty PRoWs for the District Weaver's Way and Pa	nclude deciduous eath, floodplain grazing roved grassland. ets are scattered across e form of isolated listed fewer Conservation m, Worstead, RAF) than in other LCTs, arks and gardens eston Hall). ypical number of et, including the easton Way Recreational in Walsham. Whilst no esent, there is an int of Open Access											
		use tends to be more	However, recreational efocussed on the LCTs and the Broads.							ovember				

KEY	increa	utes generally use sensitivity to evelopment type	Attributes generally decrease sensitivity to the development type	1	strong	utes do gly influ ivity in ion	ience	_	de ty	riterion/ evelopm pe not oplicable	ent	×
Sensit Criteri	-	Characteristics of the	ne LCT			_	er/lov nent ty		ceptik	oility ar	nd valu	ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		19 th Century landscap Repton influenced the parkland at Hoveton The Murder of Roger Christie: Agatha Chri	at the prominent 18 th & one designer Humphry he design of historic Hall and Honing Hall.	-			-	-	-	-	_	

Overall sensitivity to different development types

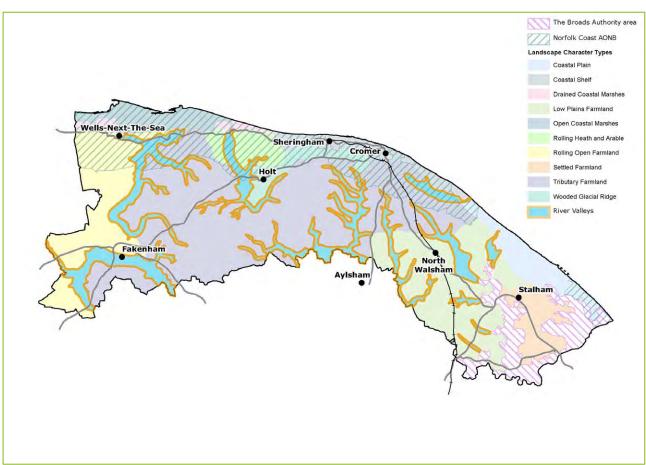
The following table provides an overall sensitivity rating, and justification for that rating, in relation to the relevant development types, based on the LCT sensitivity evaluation table above. It should be emphasised that the overall rating represents the typical sensitivity across the entire LCT, reflecting the strategic nature of this study. Notable areas where sensitivity is higher or lower than typical are outlined within the table, however there may be more localised variations in sensitivity within this.

Development Type	Reason for judgement	Typical Sensitivity
Large scale wind turbines, (up to 80m hub height)	 Typical sensitivity to large scale wind turbines is <i>high</i>: The relatively flat landform, medium to large landscape scale, typically regular landscape pattern of arable fields and relatively low conservation interest (away from the Broads fringes) reduce sensitivity to large scale wind turbines. However, this is outweighed by the open, exposed and strongly rural character, human scale features such as vernacular villages and farmsteads, generally undeveloped skylines punctuated by landmark church towers, and the proximity of the eastern parts to the Broads and the AONB, which all increase sensitivity. Sensitivity is likely to be particularly high: Where there is strong visibility of turbines on the skyline from within the designated landscapes (the Broads and the AONB), and where their identified special qualities (notably the undeveloped character, sense of remoteness and tranquillity) would likely be affected by the development type; and In the vicinity of Conservation Areas (e.g. Worstead) and registered parks and gardens, and/or where this scale of turbine may compete with landmark skyline features, such as church towers. 	High
Medium scale wind turbines, (up to 60m hub height)	 Typical sensitivity to medium scale wind turbines is <i>moderate-high</i>: The relatively flat landform, medium to large landscape scale, typically regular landscape pattern of arable fields and relatively low conservation interest (away from the Broads fringes) reduce sensitivity to medium scale wind turbines. However, this is outweighed by the open, exposed and strongly rural character, human scale features such as vernacular villages and farmsteads, generally undeveloped skylines punctuated by landmark church towers, and the proximity of the eastern parts to the Broads and the AONB, which all increase sensitivity. Sensitivity is likely to be higher: Where there is strong visibility of turbines on the skyline from within the designated landscapes (the Broads and the AONB), and where their identified special qualities (notably the undeveloped character, sense of remoteness and tranquillity) would likely be affected by the development type; and In the vicinity of Conservation Areas (e.g. Worstead) and registered parks and gardens, and/or where this scale of turbine may compete with landmark skyline features, such as church towers. 	
Small scale wind turbines, (up to 30m hub height)	 Typical sensitivity to small scale wind turbines is <i>moderate</i>: The flat landform, relatively large landscape scale, regular landscape pattern of arable fields and relatively low conservation interest (away from the Broads fringes) reduce sensitivity to small scale wind turbines while the open, exposed and rural character, generally undeveloped skylines punctuated by historic features, and the proximity to and frequent intervisibility with the Broads increase sensitivity. Sensitivity is likely to be higher: Where there is strong intervisibility with designated landscapes of particularly high scenic quality (the Broads and the AONB), whose identified special qualities would be affected by the development type; and In the vicinity of Conservation Areas (e.g. Worstead), and/or where turbines may compete with landmark skyline features, such as church 	Moderate

	I	
	 Sensitivity is likely to be lower: In localised areas of lower intervisibility with the designated landscapes; In proximity to modern larger-scale human influence/development, such as modern farm complexes and large storage sheds, main roads, and industrial estates. 	
Field-scale solar PV development (above 10 hectares site area)	 Typical sensitivity to medium scale wind turbines is <i>moderate</i>: The largely flat landform, relatively large landscape scale, regular landscape pattern of arable fields and relatively low conservation interest (away from the Broads fringes) reduce sensitivity to field-scale solar PV development while the open, exposed and rural character, with limited hedgerow screening, frequent human-scale features including historic landmarks, and the proximity to the Broads, increase sensitivity. Sensitivity is likely to be particularly high: Where intervisibility between field-scale solar PV development and the 	Moderate
	 designated landscape may exist and affect its special qualities; and In the vicinity of Conservation Areas (e.g. Worstead) Sensitivity is likely to be lower: Where there is lower or no intervisibility with the designated landscapes; and Where localised presence of woodland/higher hedgerows or existing modern larger-scale development/human influence may afford greater visual screening and containment of solar panels, and/or be less likely to affect rural character. 	
Onshore cable routes for offshore wind farms (30m – 80m clearance)	 Typical sensitivity to onshore cable routes is <i>moderate</i>: The generally flat landform and absence of visible slopes, regular landscape pattern of arable fields and relatively low prevalence of cultural heritage, wildlife and earth science designations reduce sensitivity to onshore cable routes while the open, exposed and rural character, and the proximity to the Broads increase sensitivity. Sensitivity is likely to be particularly high: Around the Broads fringes, where naturalistic landcover is more frequent, nature conservation value is higher and special qualities of the Broads (including valued habitats, sense of remoteness and tranquillity) may be affected by proximity to onshore cable routes; and In the vicinity of Conservation Areas (e.g. Ludham, Ingham, Stalham and Potter Heigham). Sensitivity is likely to be lower: Within the large areas of modern arable farmland (away from the Broads fringes) of low nature conservation interest. 	Moderate
Commercial battery storage schemes, Cable relay stations and sub-stations (for offshore wind farms) and Anaerobic digestion plants (typical size range 2.5 – 8 ha)	 Typical sensitivity to industrial type developments is <i>moderate</i>: The majority of the landscape susceptibility and value criteria do not strongly influence sensitivity in either direction in relation to these development types, except the open, exposed and rural character, generally undeveloped skylines punctuated by historic features, and the proximity to and occasional intervisibility with the Broads, which increase sensitivity. This is counterbalanced by the lack of significant time depth across this predominantly modern arable landscape which reduces sensitivity. Sensitivity is likely to be higher: In proximity to the Broads/AONB, from which views may exist of the built form associated with industrial type developments (particularly taller elements/features) within the LCT, and be likely to affect their special qualities (e.g. undeveloped character, sense of remoteness and tranquillity); and 	Moderate
	In the vicinity of Conservation Areas (e.g. Worstead) and registered parks and gardens (e.g. Beeston Hall), and/or where such development may compete with landmark skyline features, such as church towers.	

	Sensitivity is likely to be lower: Where there are no views of these forms of development from the designated landscapes; and Where localised presence of woodland/higher hedgerows or existing modern larger-scale development/human influence may afford greater visual screening and containment of built form, and/or be less likely to affect rural character.	
Reservoirs (typical size range 2 – 5ha)	 Typical sensitivity to reservoirs is <i>moderate</i>: The generally large, regular arable fields increase the apparent scale of the landscape, which reduces sensitivity to reservoirs as they can be more easily accommodated within single fields. However, this is counterbalanced by the flat landform and strong sense of openness, with limited hedgerow screening, which generally increases sensitivity to reservoirs, as their embankments can be less naturally integrated into the surrounding landscape, making them appear more prominent. Sensitivity is likely to be higher: In proximity to the Broads and the AONB, from which views may exist of reservoir embankments within the LCT, and where these would be likely to affect their special qualities (e.g. undeveloped character, sense of remoteness and tranquillity); and In the vicinity of Conservation Areas (e.g. Worstead) and registered parks and gardens. Sensitivity is likely to be lower: Where there are no views of this form of development from the designated landscapes; and/or Where greater variation in landform may allow reservoir embankments to be integrated more naturally into the landscape; and/or Where the presence of woodland/higher hedgerows or existing modern larger-scale development/human influence may afford greater visual screening and containment of reservoirs, and opportunities to integrate new planting screening on embankments without adversely affecting existing landscape character. 	Moderate





Baseline Landscape

Introduction to the Landscape Character Type

Parts of three river systems, the Wensum, the Bure and the Ant, feed south and eastward through the District into the Broads. The river Wensum is one of the finest examples of a lowland chalk river in the country. Two principal rivers, the Stiffkey and the Glaven, together with one shorter watercourse, Mundesley Beck, are also rare chalk rivers, flowing northwards over the chalk bedrock to the sea.

The valley floors provide a strong contrast to the typically open, large-scale arable landscapes through which they pass, being characterised by a pastoral land use, a high level of tree cover and a linear settlement pattern, with significant local variations in land cover and, consequently, in views. On valley sides there is typically a continuation of arable farming from the adjacent areas, but landform nonetheless gives a more contained character on which the valley floors have a strong visual influence. The tributary valleys are more intimate and enclosed with extensive woodland cover and hedgerows bordering narrow lanes and settlement confined to valley floors.

The northern fringes of the Stiffkey and Glaven, and all of Mundesley Beck, lie within the Norfolk Coast AONB, and the mouth of the Stiffkey is also part of the North Norfolk Heritage Coast. Small areas at the mouths of all three form part of North Norfolk's Undeveloped Coast policy area.

Component Character Areas

There are six geographically distinct River Valleys in North Norfolk:

RV1 - River Wensum and tributaries

RV2 - River Bure and tributaries

RV3 - River Ant and tributaries

RV4 - River Stiffkey and tributaries

RV5 - River Glaven and tributaries

RV6 – Mundesley Beck

Key Characteristics for Type¹

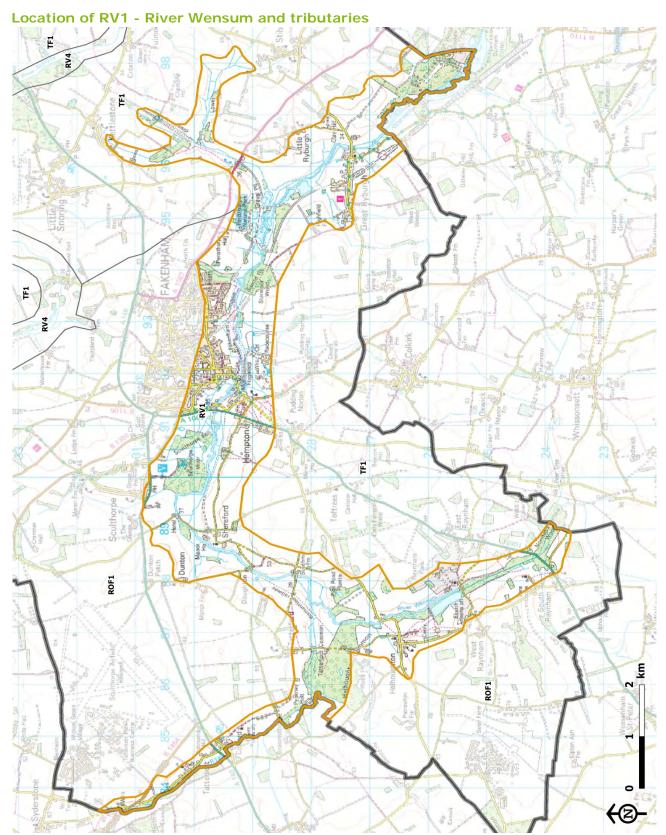
- Typically shallow-sided valleys
- A relatively small-scale pattern of varied land uses on valley floors
- Larger arable fields on valley sides, distinct from valley floors
- Relatively high level of woodland cover
- Settlement and roads follow valley sides
- High biodiversity
- · Contrast between valley floor containment and expansive views from valley crests

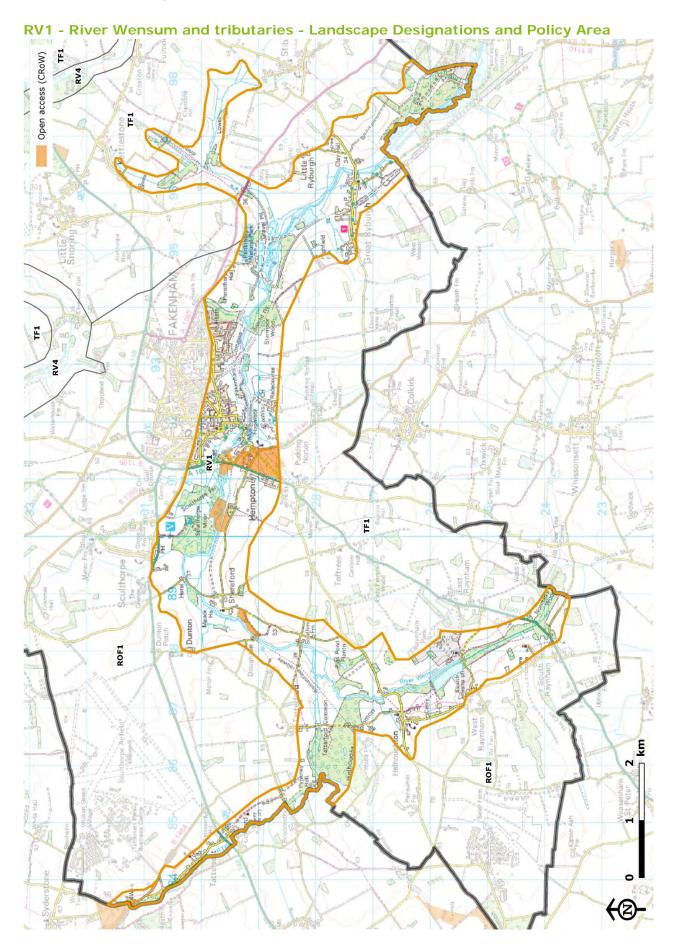
Valued features and qualities

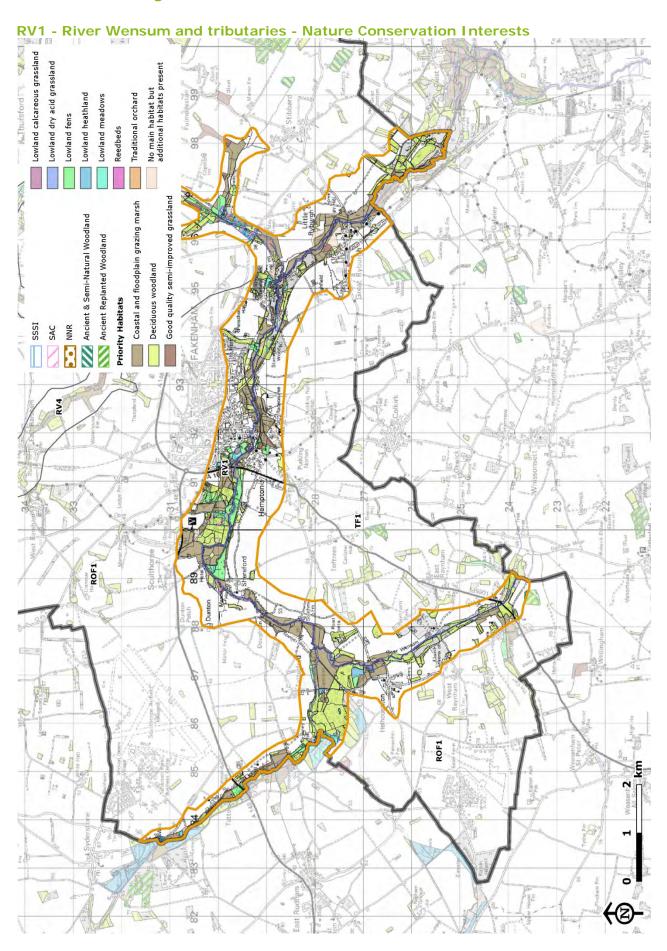
- Intimate, contained rural character
- · Variety of landscape elements and scenic views
- Wealth of biodiversity
- Strong sense of time depth and historical continuity
- Parklands enhance historic landscape character
- Views of numerous church towers within and across valleys

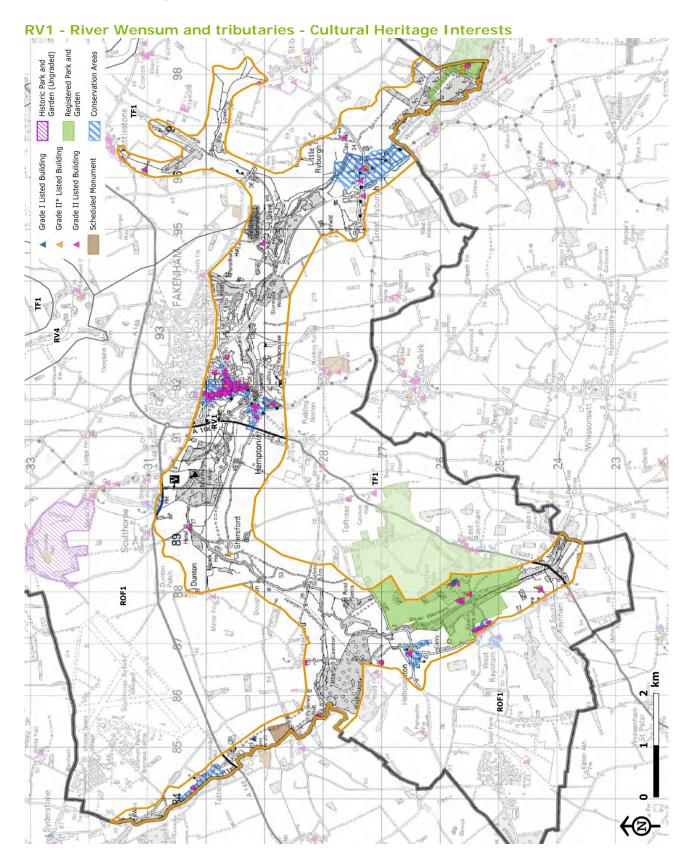
¹ Detailed information about landscape character, including characteristics specific to each Character Area, and valued features is set out in the North Norfolk Landscape Character Assessment (2018)

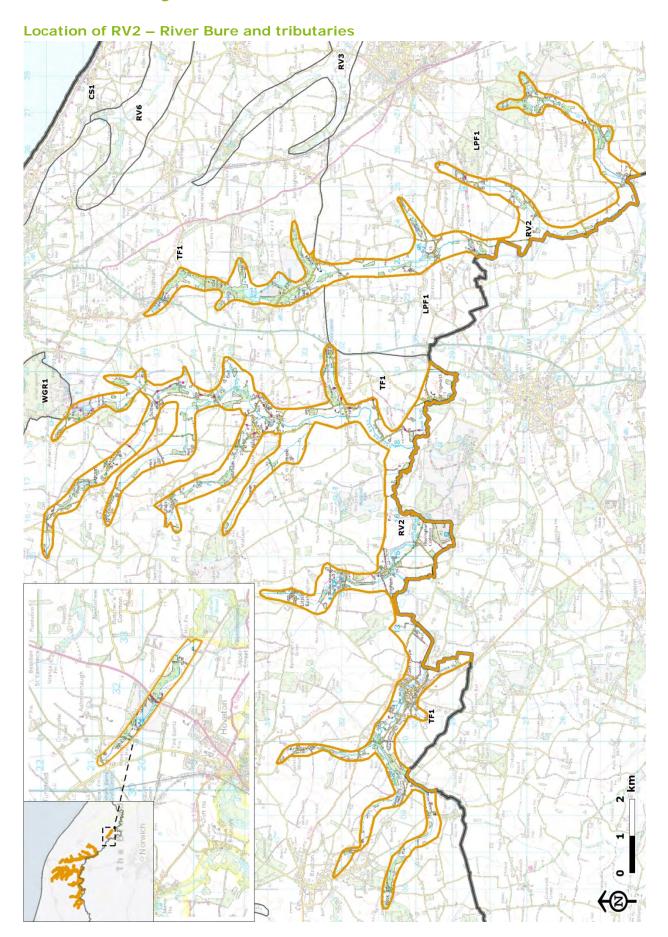
• Other valued features include views of numerous church towers within and across valleys, such as at Fakenham and Wiveton.

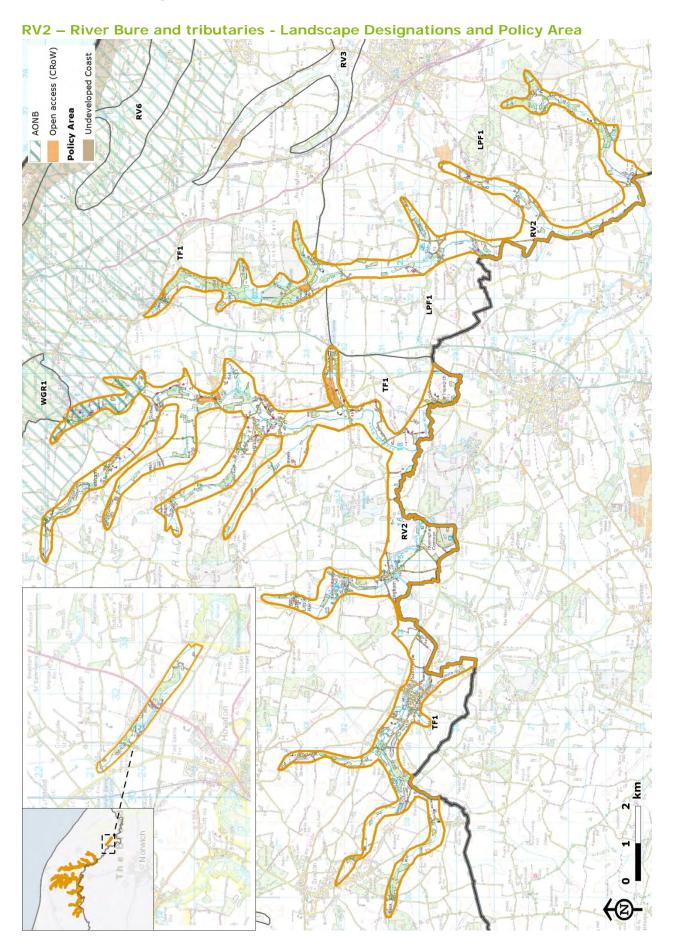


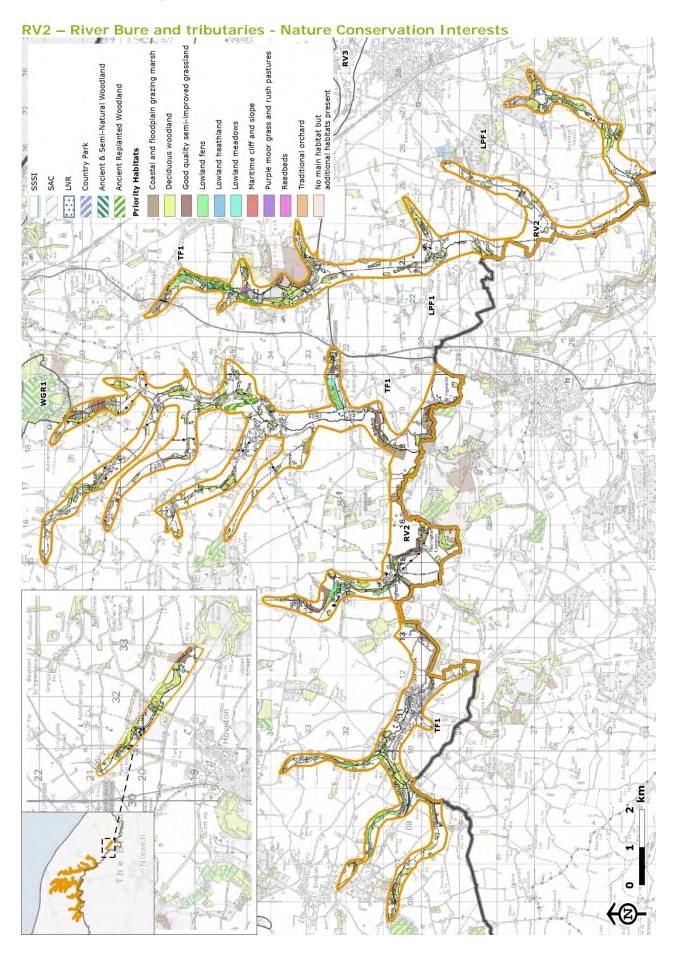


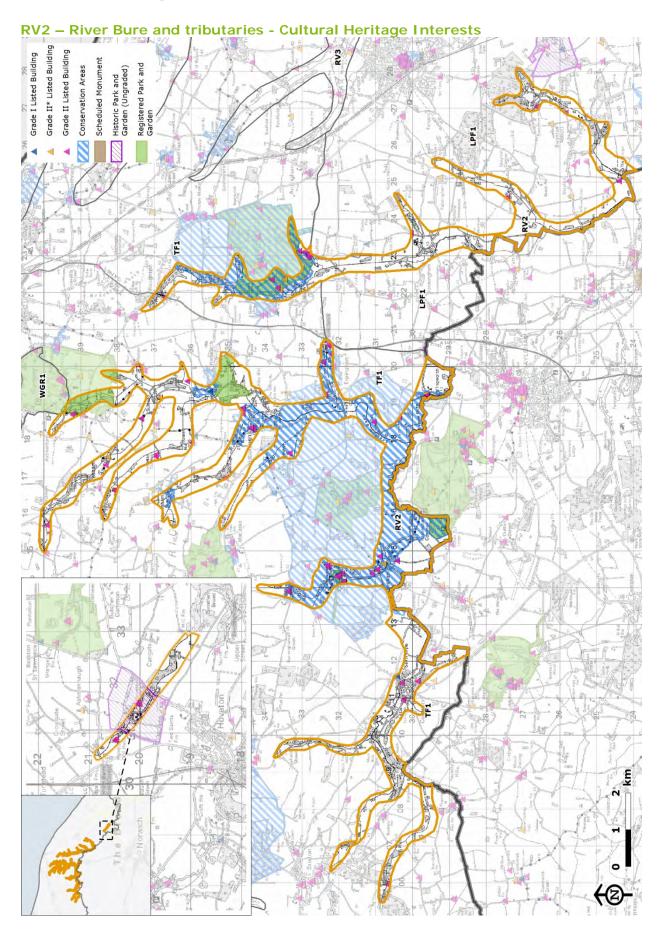


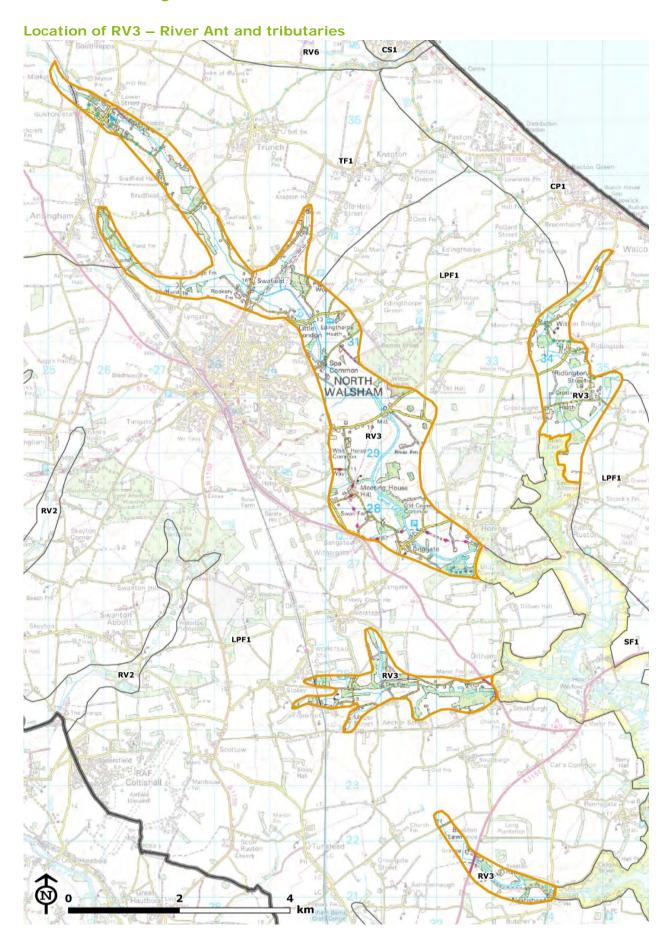


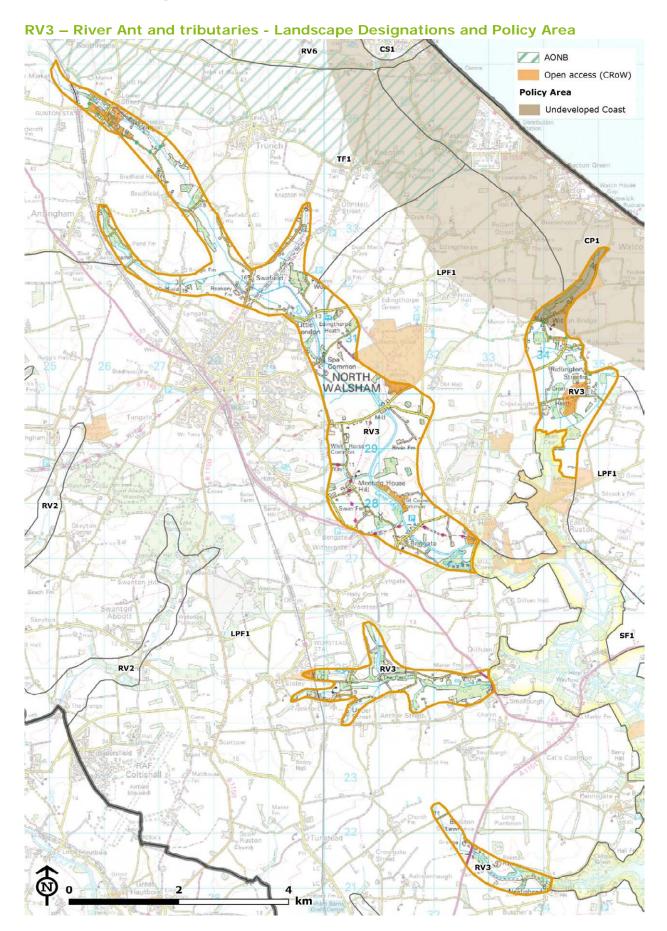


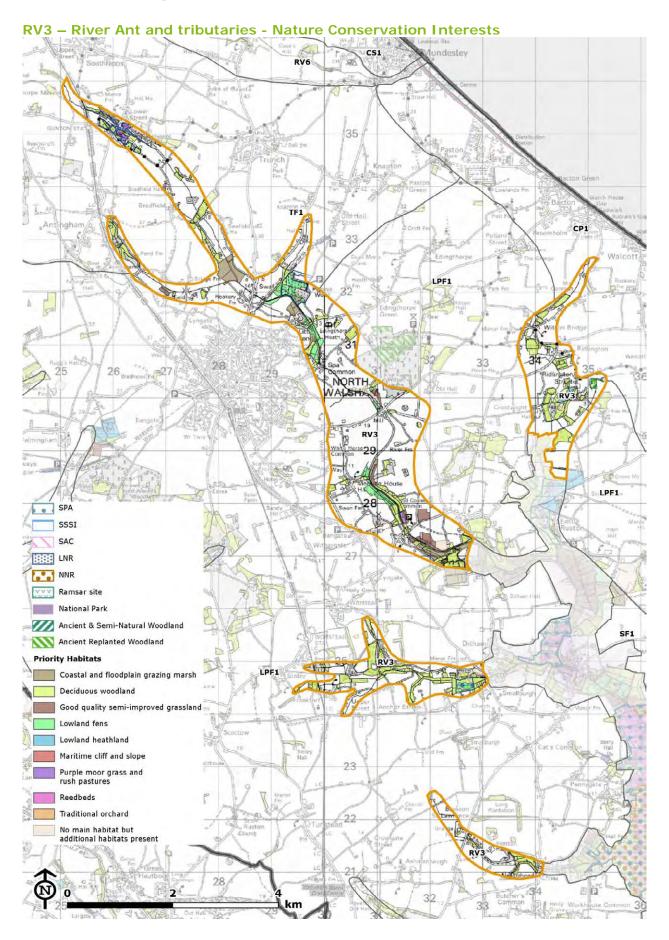


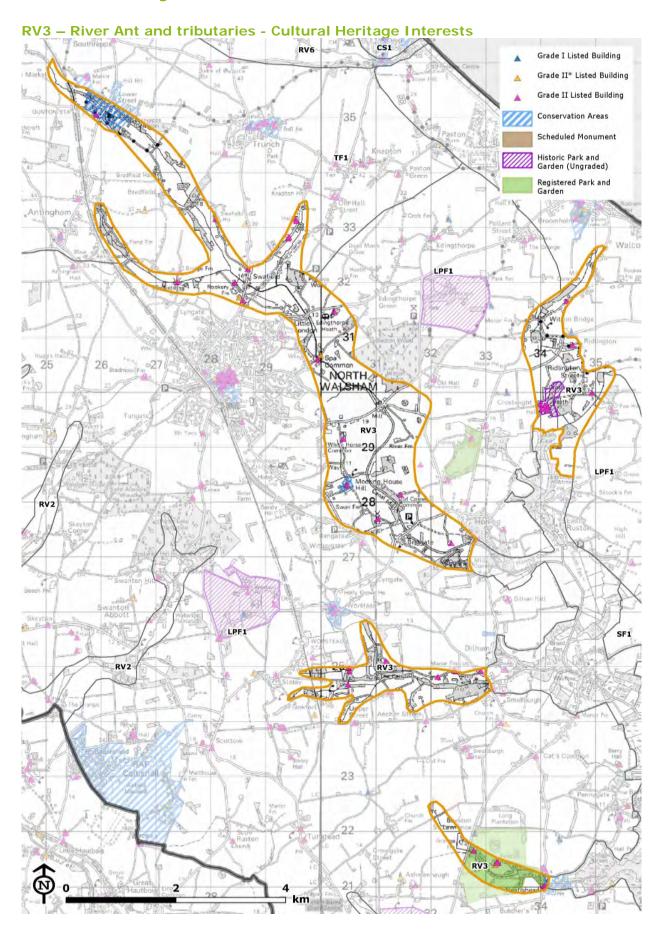


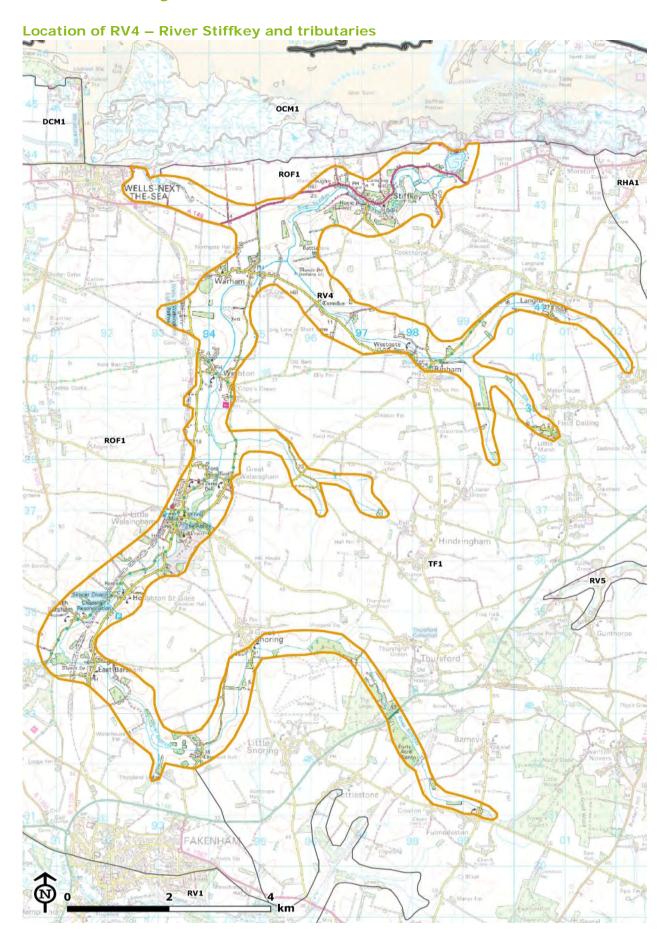


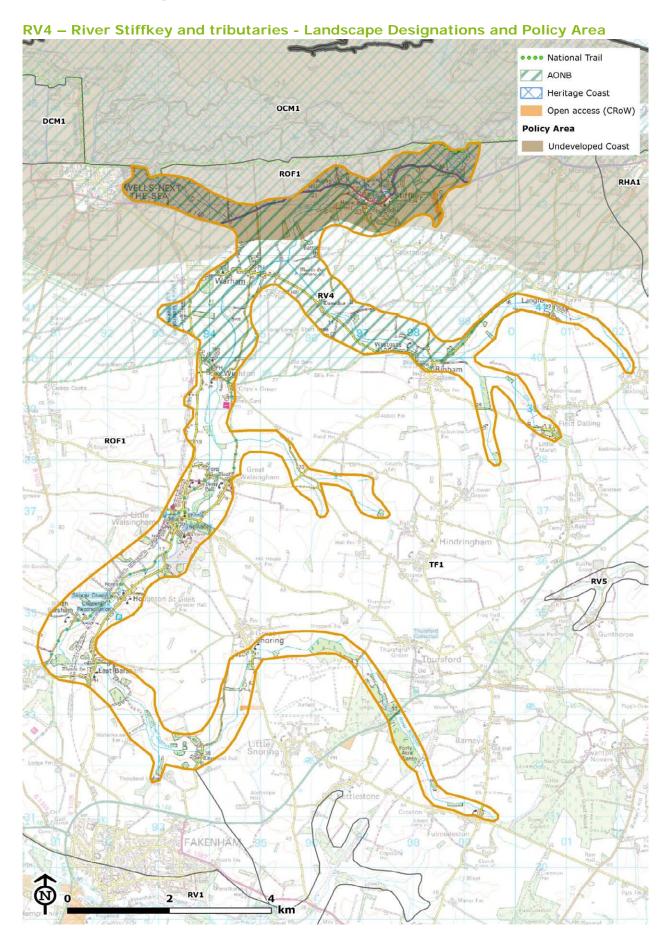


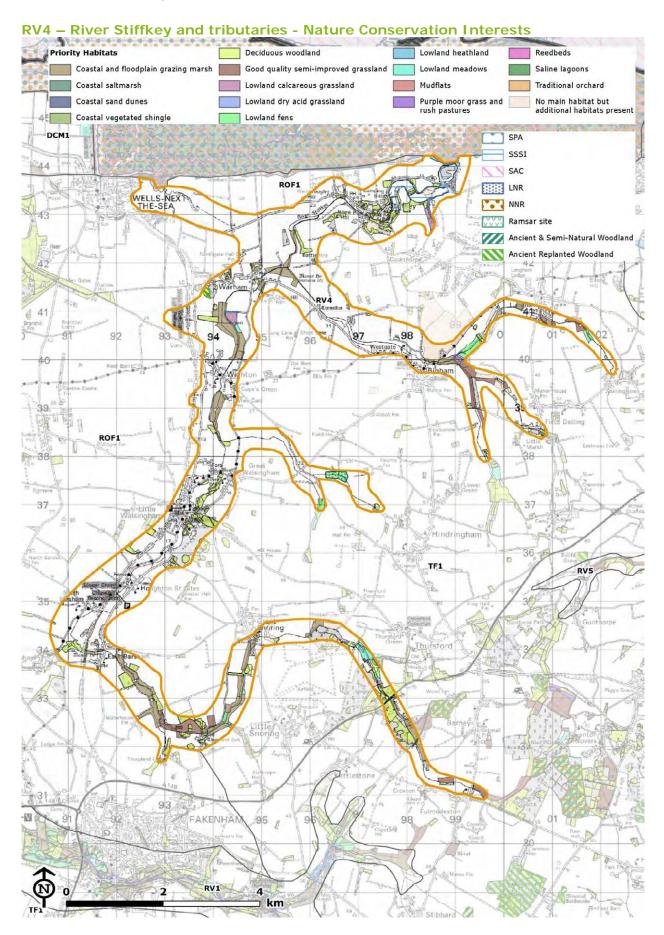


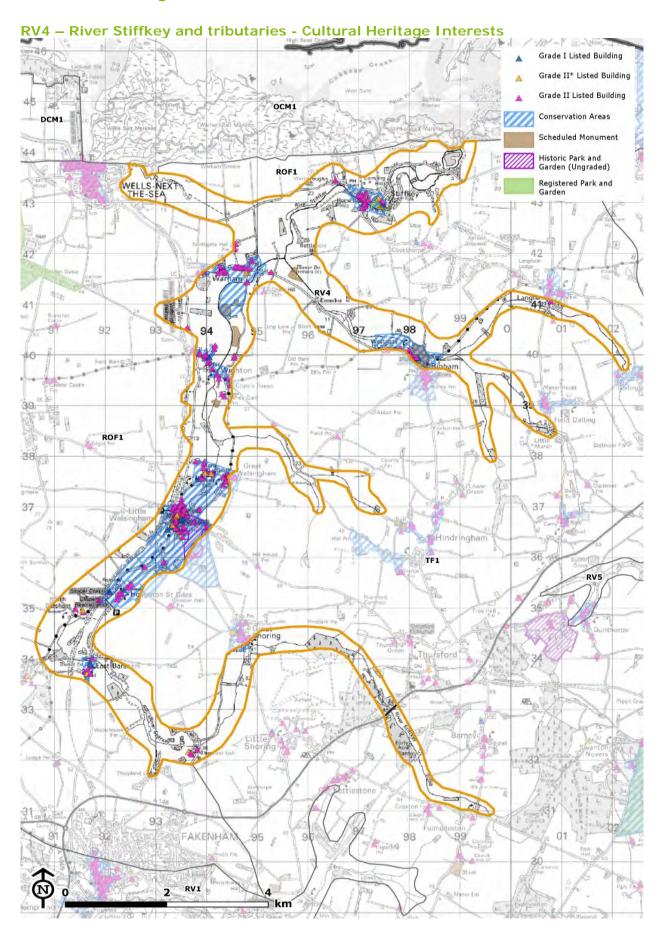


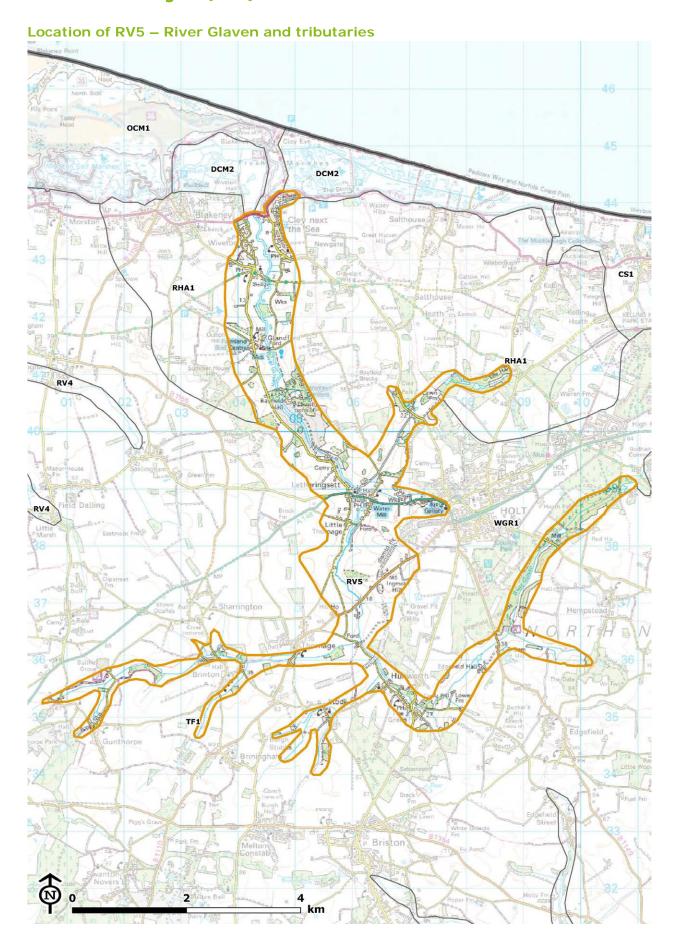


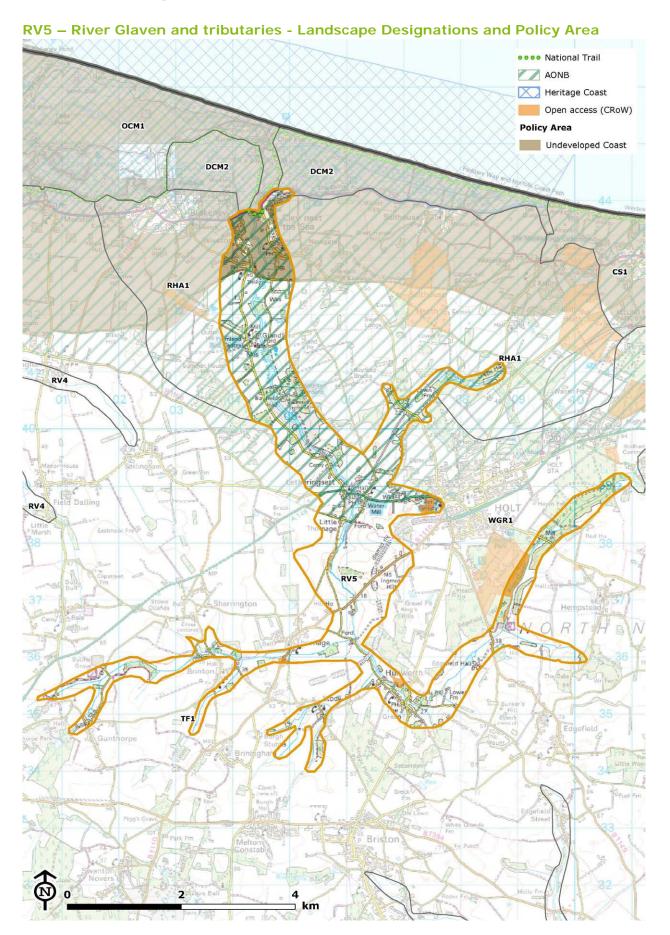


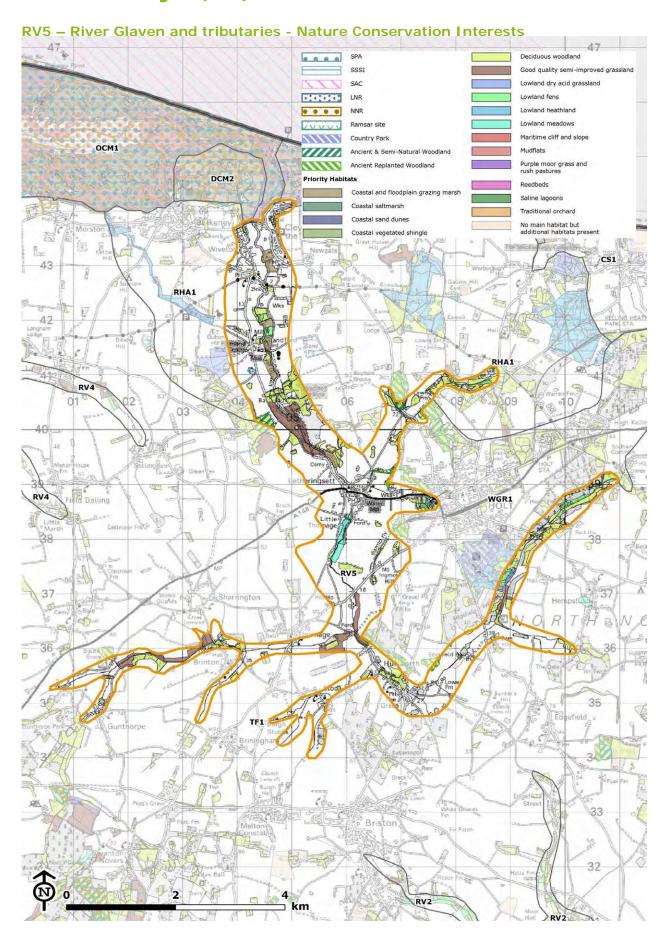


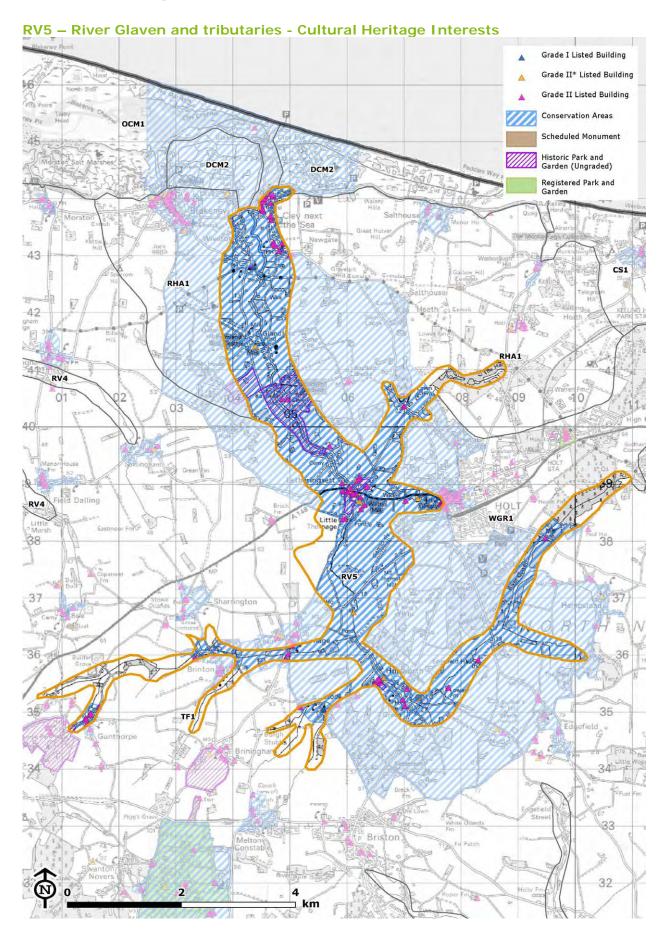




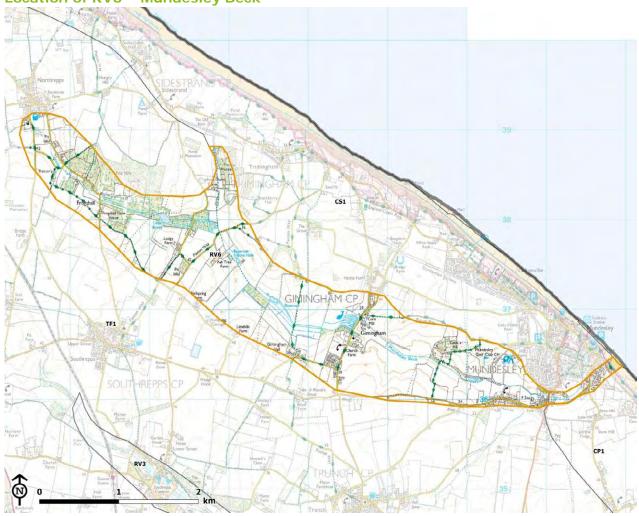


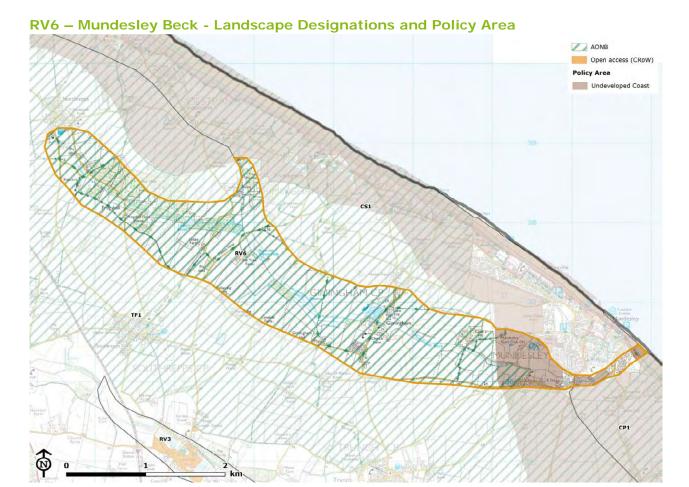


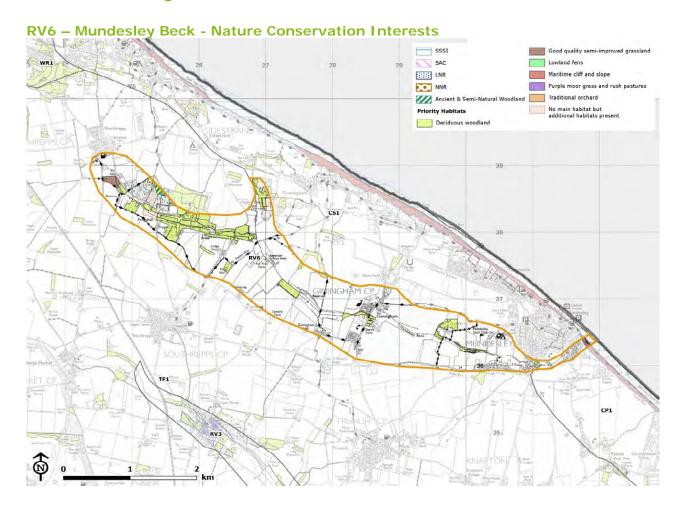


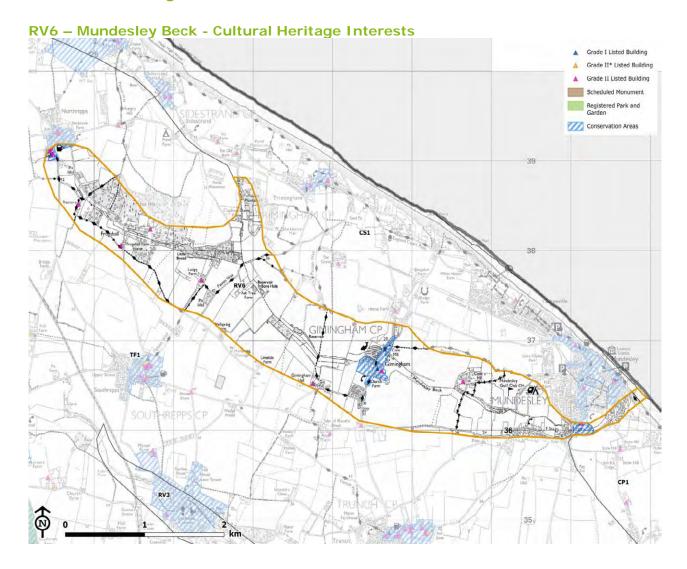


Location of RV6 – Mundesley Beck









Landscape Sensitivity Evaluation

Criteria Appraisal

The following table illustrates the appraisal of the River Valleys LCT against the sensitivity criteria which have been predetermined for the development types. Any variations between the individual character areas are set out in the text.

KEY	increas	es generally e sensitivity to elopment type	Attributes generally decrease sensitivity to the development type	1	stron	utes do gly influ ivity in ion	ience	_	dev type	erion/ elopme e not licable	nt	×
Sens Crite	itivity ria	Characteristics of t	he LCT		ators o	_			sceptik	oility a	nd val	ue
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Susc	eptibilit	y Criteria										
Topog & sky	graphy rlines	(e.g. St Mary's, Bess prominent which gen sensitivity to tall feat turbines, which could the valley sides. The river in the District, will floor and low, often it the Ant has an indist terracing and small harger valley, and the valleys close to the cothers in the District. Valley sides tend to he features such as field developments, cable	nark historic features its sited on valley sides ingham) are visually erally increases ures, such as wind dominate the scale of Wensum is the largest with a typical wide valley indistinct, valley sides; inct, complex form with ills in the context of a estiffkey and Glaven oast are deeper than have higher sensitivity to discale solar PV		1	1	1	1	1	1	1	1
Lando	cover	than the broader ara typically surround the levels of tree cover a sometimes a transition diverse valley floors a higher valley sides, w Character Areas, whit use. A diversity of na	em, including higher and pasture. There is on between the more and the less diverse within adjacent ch are often in arable	1	Î	1	Î	1	Î	1	1	1

KEY	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity to the development type	1	stron	utes do gly influ tivity in ion	ience	_	dev type	erion/ elopme e not licable	nt	×
Sens Crite	itivity ria	Characteristics of t	he LCT		ators of	_			sceptik	oility a	nd val	ue
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Sense openr enclos	ness/	of much of the surro typically this relates narrow belt of land. generally more open above valley floors copenness albeit with containment from the These attributes balaterms of sensitivity the PV, cable routes and developments. Local	rovides a sense of asts with the openness unding farmland, but only to a relatively. The valley sides are, and their elevation reates a degree of in the context of e wider landscape. Ince each other out in o wind turbines, solar reservoir lised enclosure by the sensitivity to smaller.						Ţ	1	1	
Scale (landf and comp featur lands patter comp	form onent res), cape rn &	than the arable farm are largely contained watercourses or slop that shapes are ofter less geometric than pattern in adjacent f small villages and na	ale mosaic of land cover lands by which they d. Association with sing topography means in more sinuous and the dominant landscape armlands. Frequent arrow connecting lanes and the 'human' scale of e factors increase	1	1	1	1	*	Î	Î	1	1
	uillity/ teness/ ty & of n	for the most part this villages, often with a recognised through (designations, connec Containment from th	Conservation Area cted by minor roads. The wider landscape also aral tranquillity which	1	1	1	1	1	1	1	1	1

types.

KEY	increase	es generally e sensitivity to elopment type	Attributes generally decrease sensitivity to the development type	Î	stron	utes do gly influ ivity in ion	ience	_	deve type	erion/ elopme e not licable	nt	×
Sens Crite	itivity ria	Characteristics of the	he LCT		ators of	_			sceptik	oility ar	nd valu	ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Time histor contir		fields for large-scale have affected much o commonly occurred i combined with the in historic villages mear typically a strong ser increases sensitivity development. A num parklands also extendareas, often in associ	at the reorganisation of arable farming that of the District have not in the valleys. This fluence of many institute that there is use of time-depth which to all types of ber of historic do into valley floor into with the creation in, where the town has as historic river valley evelopment has usent ROF Character have a significant	1	1	1	1	1	1	1	1	1
Value	e Criteri	a										
lands desig and e to wh	nations extent lich special lies be	the Norfolk Coast AO the Stiffkey is also patheritage Coast. Any of types located within the have the potential to defined special quality particular the undeversand tranquillity. As a these nationally value.	andesley Beck, lie within NB, and the mouth of art of the North Norfolk of the development or close to the AONB affect the AONB's ies to an extent, in eloped coastal character result, the presence of ed landscapes increases is of development within	1	1	1	1	1	1	1	1	1
Other indica value	ators of	varied and more woo the AONB and Herita adding to scenic qual	n open, large-scale the smaller-scale, more ded river valleys outside ge Coast, is valued as ity. Historic vernacular hedgerows, meadows	1	1	1	1	1	1	1	1	1

KEY	increas	tes generally e sensitivity to relopment type	Attributes generally decrease sensitivity to the development type	Î	stron	utes do gly influ tivity in ion	ience	_	dev type	erion/ elopme e not licable	nt	×
Sens Crite	itivity ria	Characteristics of t	he LCT			of high velopn			sceptik	oility a	nd val	ue
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		to scenic quality and valley landforms per scenic quality increas development.	mit scenic views. This									
		river valleys are not,	ne District context, the in landscape terms, ly important examples	-	-		-	-	-		_	_
		Rarity:										
		rare, ecologically rich associated floodplain and wet woodland ar have a higher sensiti majority of land in th priority habitat, so de	Mun are examples, are habitats, and grazing marshes, fense likewise valued and vity. However, the ese valleys is not	_	_		_	_	-		_	_
		ancient woodland; ho less affected by 20 th agriculture than adja number of relatively	cent landscapes. The intact historic villages ubstantial development to they typically are degree of intactness	1	1	1	1	1	1	1	1	1
		Nature conservation interests:	-									
		more commonplace t where arable farming land use, reflecting the	requent, and typically han in adjacent areas is the predominant ne historic valley-side There are a number of	1	1	1	1	1	1	1	1	1

inc	ributes generally rease sensitivity to development type	Attributes generally decrease sensitivity to the development type	Î	stron	utes do gly influ tivity in ion	uence	_	dev type	erion/ elopme e not licable	nt	×
Sensitivi Criteria	ty Characteristics of t	he LCT			of high velopn		ver sus /pe	sceptik	oility a	nd val	ue
			Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
	Glaven Valley and mand tributaries (the Molterton Conservat small historic villages Registered Parks & General Park, Gunton Park arextend into river vall cultural heritage des sensitivity to all devenous Cover a much smalle heritage ones, and a	ion Area) and many s. There are also sardens (e.g. Raynham and Beeston Hall) which eys. The frequency of ignations increases elopment types. ervation designations r area than cultural re more associated	_		_	_	_	_			_
	Recreational value: There are no national linear rights of way a valleys, although the Stiffkey, Glaven and the Peddar's Way an and from well-used of tourist destinations (Cley). Historic village	Issociated with river lower reaches of the Mun are visible from d Norfolk Coast Path coastal roads and Wells, Mundesley and es such as Walsingham ational visitors, but for indscape Type has	_	_	_			_		_	_
	poet George Barker i	em ('Norfolk', 1954) Bure, and 20 th century s buried at Itteringham lley of the River Bure, on adds significant	_	_	_	_	_	_	_	_	_

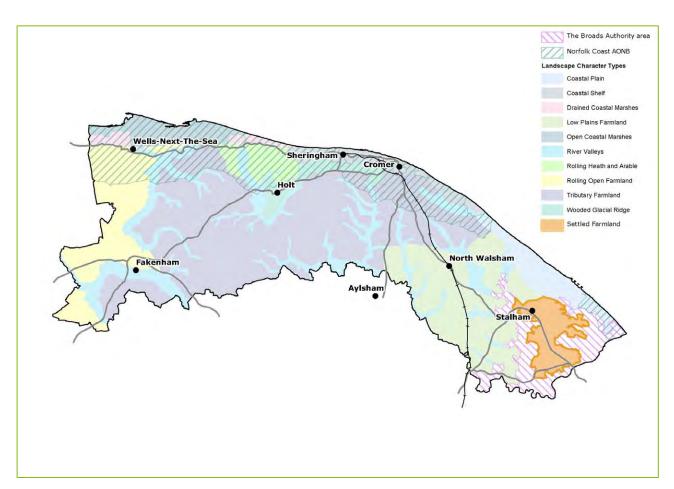
Overall sensitivity to different development types

The following table provides an overall sensitivity rating, and justification for that rating, in relation to the relevant development types, based on the LCT sensitivity evaluation table above. It should be emphasised that the overall rating represents the typical sensitivity across the LCT, reflecting the strategic nature of this study. Notable areas where sensitivity is higher or lower than typical are outlined within the table, however there may be more localised variations in sensitivity within this.

Development Type	A O N B	Reason for judgement	Overall Sensitivity
Large scale wind turbines, (up to 80m hub height)	оит	The shallow nature of the valleys, diversity of land cover patterns, presence of human scale features, frequency of cultural heritage assets, sense of tranquillity, time depth, scenic quality and sense of intactness all increase sensitivity to large-scale wind turbines so that typical sensitivity to this scale of turbine is high .	High
		Areas of particularly high sensitivity are associated with locations in proximity to the AONB and Heritage Coast designations, Conservation Areas and historic parks, or would have a direct impact on nature conservation designations (especially associated with the Wensum) or priority habitats.	
	IN	The AONB designation results in additional sensitivity due to the high scenic value and sensitivities associated with recreational use of the landscape. There are also particular sensitivities associated with Conservation Areas in the AONB: the Glaven Valley, Warham, Stiffkey, Binham, Wighton and Gimingham.	High
Medium scale wind turbines, (up to 60m hub height)	OUT	The shallow nature of the valleys, diversity of land cover patterns, presence of human scale features, frequency of cultural heritage assets, sense of tranquillity, time depth, scenic quality and sense of intactness all increase sensitivity to medium-scale wind turbines so that typical sensitivity to this scale of turbine is high .	High
		Areas of higher sensitivity are associated with locations in proximity to the AONB and Heritage Coast designations, Conservation Areas and historic parks, or would have a direct impact on nature conservation designations (especially associated with the Wensum) or priority habitats.	
	IN	The AONB designation results in additional sensitivity due to the high scenic value and sensitivities associated with recreational use of the landscape. There are also particular sensitivities associated with Conservation Areas in the AONB: the Glaven Valley, Warham, Stiffkey, Binham, Wighton and Gimingham.	- High
Small scale wind turbines, (up to 30m hub height)	оит	Although the diversity of land cover patterns, presence of human scale features, sense of tranquillity, frequency of cultural heritage assets, time depth, scenic quality and sense of intactness all increase sensitivity to wind turbines, the valleys are a little less sensitive to this scale of turbine than the larger scale turbines. Overall, typical sensitivity to this scale of turbine is moderate-high . Areas of higher sensitivity are associated with locations in proximity to the AONB and Heritage Coast designations, Conservation Areas and historic parks, or would have a direct impact on nature conservation designations (especially associated with the Wensum) or priority habitats.	Moderate- high
	IN	The AONB designation results in additional sensitivity due to the high scenic value and sensitivities associated with recreational use of the landscape. There are also particular sensitivities associated with Conservation Areas in the AONB: the Glaven Valley, Warham, Stiffkey, Binham, Wighton and Gimingham.	High
Field-scale solar PV development (above 10	OUT	Rural character, the presence of naturalistic landscape forms, and the scale of a typical solar farm in relation to small-scale valley floor landscapes increase sensitivity to field-scale solar PV development, despite the frequency of tree cover and high hedgerows which can provide screening. On higher valley sides there is commonly less potential to screen development. Overall, typical sensitivity is high .	High

hectares site			
area)		Sensitivity will be particularly high close to Conservation Areas or Registered Parks and Gardens, but there may also be localised lower valley-side sites where field sizes are relatively large and there is sufficient screening to reduce sensitivity.	
	IN	The AONB designation results in additional sensitivity due to the high scenic value and sensitivities associated with recreational use of the landscape. There are also particular sensitivities associated with Conservation Areas in the AONB: the Glaven Valley, Warham, Stiffkey, Binham, Wighton and Gimingham. Sensitivity to any size of field-scale solar development is likely to also be high in the AONB.	High
Onshore cable routes for offshore wind farms (30m - 80m	оит	The presence of some steep slopes, naturalistic landscapes, sense of tranquillity, intactness/ time depth, relatively high scenic quality and presence of heritage assets increase sensitivity to buried cable routes in this landscape type. Over the river valleys have a moderate-high sensitivity to buried cable routes. There may be lower sensitivity to short valley crossings which align with existing landscape elements – e.g. roads - but higher sensitivity to routes that run along valleys for significant distances.	Moderate- High
clearance)	IN	The AONB designation results in additional sensitivity due to the high scenic value and sensitivities associated with recreational use of the landscape. There are also particular sensitivities associated with Conservation Areas in the AONB: the Glaven Valley, Warham, Stiffkey, Binham, Wighton and Gimingham. Sensitivity to any cable routing across valleys within the AONB is also likely to be high.	High
Commercial battery storage schemes , Cable relay stations and sub-stations (for offshore wind farms)	оит	The presence of some steep slopes, human scale features, frequency of cultural heritage assets, sense of tranquillity, intactness/ time depth, relatively high scenic quality and frequent cultural heritage interest increase sensitivity to any form of modern, industrial-type development. There may be some opportunities to find locations for development at the lower end of the typical size range in areas that have a degree of enclosure/ containment. Typical sensitivity is therefore moderate-high.	Moderate- High
and Anaerobic digestion plants (typical size range 2.5		In shallower upper valley locations, where screening potential is more limited, and in locations where steeper slopes would necessitate significant earthworks to create level sites, sensitivity is likely to be higher. Sensitivity to developments at the upper end of the typical size range will also be higher.	
– 8 ha)	IN	The AONB designation results in additional sensitivity due to the high scenic value and sensitivities associated with recreational use of the landscape. There are also particular sensitivities associated with Conservation Areas in the AONB: the Glaven Valley, Warham, Stiffkey, Binham, Wighton and Gimingham. Sensitivity to any industrial-type renewable energy developments in AONB valley locations is likely to be high.	High
Reservoirs (typical size range 2 – 5ha)	OUT	The relatively small scale mosaic of valley floor landscapes, the naturalistic character of landscape elements, frequency of cultural heritage assets, the sense of tranquillity, intactness/ time depth associated with the valleys and relatively high scenic quality all increase sensitivity to reservoir development, while the sense of enclosure on lower valley sides/ floor reduce sensitivity in localised areas. Overall, typical sensitivity of this landscape type to reservoir development is moderate-high . Sensitivity is likely to be higher on visually exposed valley-side locations where the sloping terrain would require more significant earthworks to facilitate water storage, but lower where slopes are shallower and tree cover provides visual containment.	Moderate- High
	IN	The AONB designation results in additional sensitivity due to the high scenic value and sensitivities associated with recreational use of the landscape. The steeper slopes of the upper reaches of the Glaven and Stiffkey valleys are likely to make valley-side earthworks more intrusive.	High





Baseline Landscape

Introduction to the Landscape Character Type

The Settled Farmland Type is characterised by flat or very flat arable landscapes, which are bordered by woodland fringing the adjacent Broads Valleys. Settlement is a strong feature of the landscape, as dispersed farmsteads or in villages and the market town of Stalham.

There are no landscape designations within the LCT; however, it is bounded on three sides by The Broads, which have the status of a national park.

Component Character Areas

There is one continuous area of Settled Farmland in North Norfolk, in the south-east of the District:

SF1 - Stalham, Ludham and Potter Heigham

Key Characteristics¹

- Flat or very flat terrain, with watercourses limited to running ditches
- A rural landscape in which arable land use predominates with small pockets of pasture around settlement and some farmsteads
- An open landscape with large fields bounded by ditches, grassed banks and low hedges
- Low woodland cover throughout the Type
- Mature oak trees within roadside banks are prominent features
- Settlement comprises a market town, rural villages and dispersed farmsteads
- A diverse road network, including the dominant A149
- A strong visual relationship with the adjacent Broads
- Moderately long views and church towers as landmark features

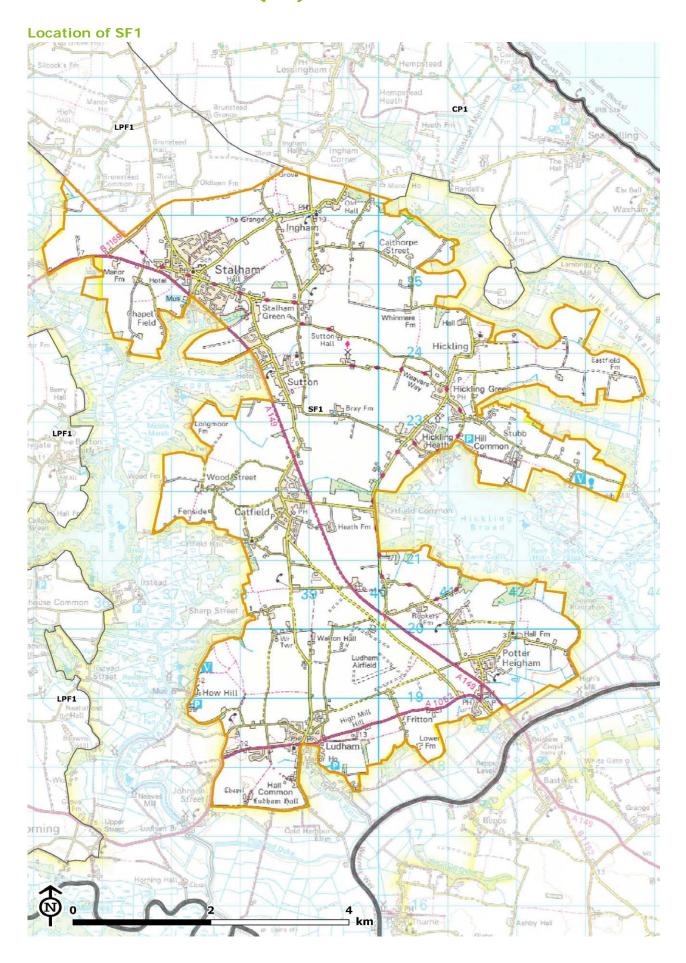
Valued features and qualities

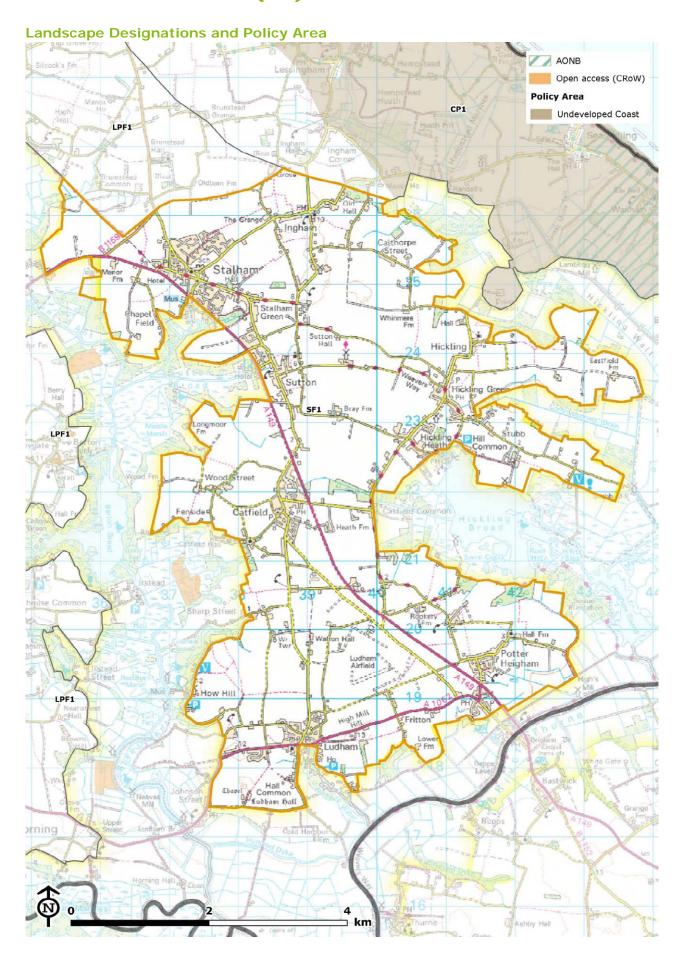
- Strong rural character with a sense of remoteness and tranquillity
- Highly productive farmland
- · Remnant semi-natural habitats
- · Historic market towns and villages with vernacular buildings
- Rural lanes

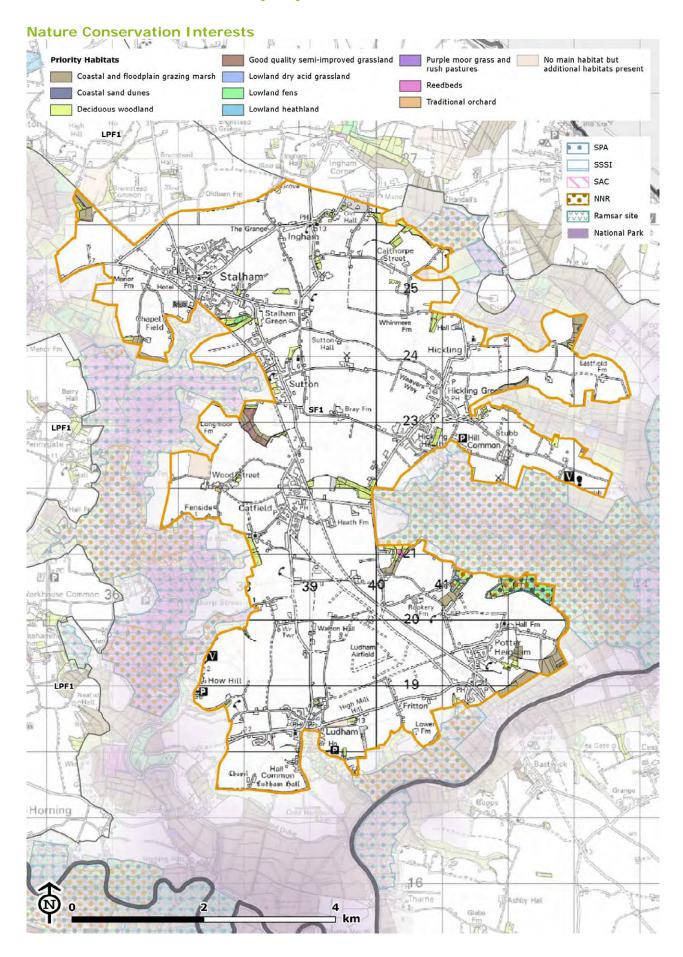
Long views punctuated by distinctive skyline features including numerous church towers

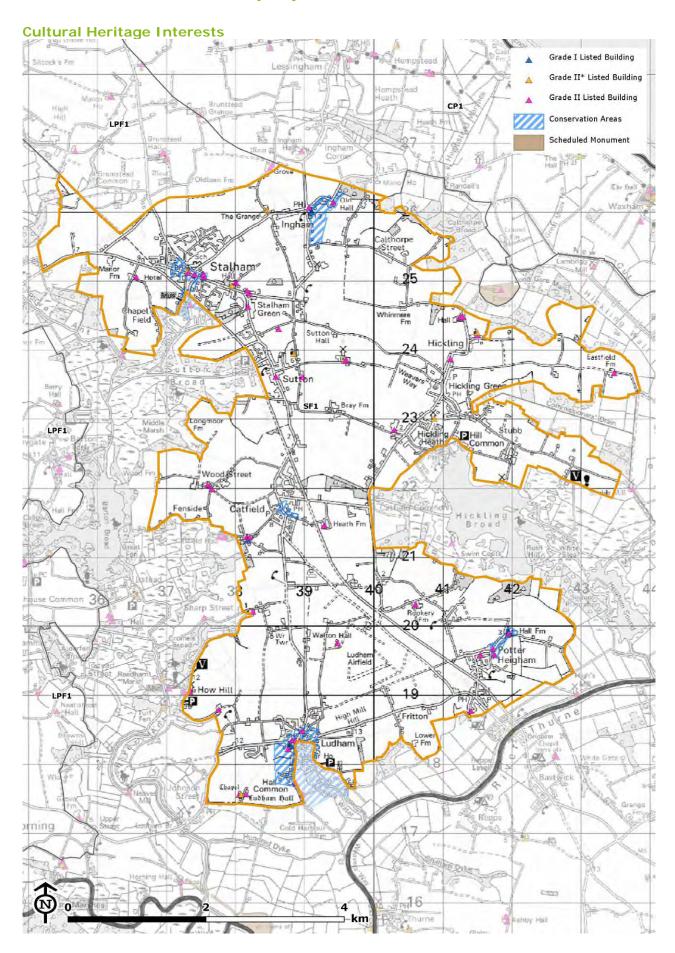
Treed horizons

¹ Detailed information about landscape character and valued features is set out in the North Norfolk Landscape Character Asssessment (2018)









Landscape Sensitivity Evaluation

The following table illustrates the appraisal of the Settled Farmland LCT against the sensitivity criteria which have been predetermined for the renewable energy development types.

KEY	increas	tes generally e sensitivity to relopment type	Attributes generally decrease sensitivity to the development type	1	stron	utes do gly influ tivity in ion	uence	_	de ty	riterion/ evelopm pe not oplicable	nent	×
Sensi Crite	itivity ria	Characteristics of t	he LCT			_	ner/lov		sceptil	oility aı	nd valu	ae
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Susce	eptibilit	y Criteria								ı		
Topog & skyl	graphy lines	between 1m and 7m Generally undeveloped arable farmland and occasionally punctual features or interrupted. The flat landform low farms and onshore calless easily perceived whilst the presence of features on a largely outweighs the flat lar sensitivity to taller st	ed skylines, formed by Broads woodland, ted by historic landmark ed by settlement fringes. Vers sensitivity to solar able routes, which are in flat landscapes, of historic landmark undeveloped skyline adform to increase ructures such as wind embankments are less of flat landscapes,	1	1	1	1	1				1
Lando	over	level of woodland relatively which does not strong in either direction, with onshore cable routes restore above cable to naturalistic landcover remnant pasture field settlements, and wether marsh around the Bruhigher sensitivity to a	gly influence sensitivity ith the exception of , as arable is easier to crenches than more r. Small areas of				_	1				

KEY	increas	tes generally le sensitivity to velopment type	Attributes generally decrease sensitivity to the development type	↓	strono	utes do gly influ ivity in ion	ience	-	d ty	riterion/ evelopm /pe not pplicable	nent	*
Sensi Crite	itivity ria	Characteristics of t	he LCT		ators o	_			scepti	bility aı	nd valu	ne
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Sense openr enclos	ness/	character due to the landform, arable land and field boundaries ditches or low hedge visual screening/contincreases sensitivity types. The sense of eincreased in close prohorizons of the neigh	to all development enclosure is locally	1	1	1	1	1	1	1	1	1
Scale (landf and compo featur landso patter compl	onent res), cape rn &	boundaries increase landscape; however, by the semi-disperse traditional villages, for Stalham, with hist smaller remnant past roadside/field oaks, whuman-scale features.	ture fields, and scattered which introduce frequent is into the landscape. It to all relevant is not strongly influenced	_				*	-			
	uillity/ teness/ ty & of n	and traditional ruralit quiet farmland away There is, however, a modern human influe of this landscape due busy roads, intensive modern built form as industry and some seresults in an overall resensitivity to all develocalised areas of income.	ence throughout much a to the presence of a arable agriculture and sociated with farms, ettlement fringes. This neutral influence on elopment types. creased susceptibility ads fringes; notably in									

KEY	increas	tes generally e sensitivity to relopment type	Attributes generally decrease sensitivity to the development type	↓	stron	utes do gly influ ivity in ion	uence	-	de ty	riterion/ evelopm pe not oplicable	nent	×
Sensit Criter	-	Characteristics of t	he LCT			_	ner/lov		sceptil	oility a	nd valı	ue
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Time of historic continu		dominated by 20 th ce which generally lowe types of developmen	rs sensitivity to all t, except in the vicinity nents, which display a	Î	1	1	1	Ţ	1	1	Î	1
Value	Criteri	a										
Presen landsc design and ex to which their s qualitie could I affected	cape nations ktent ch special es	the LCT; however, it relationship with the surrounds the LCT or instances views of th from the LCT are resextensively wooded fare more open views not occur on the bout the AONB is also located the surrounding the surroundi	Broads, which in three sides. In most is Broads landscape tricted by its fringes, although there where woodland does indary. ated to the east of the eads. In some locations ice from the AONB is	1	1		_	_	_		_	_
		landscape designation overall sensitivity of developments, such a which may be more workerwise undevelopments and the AONE adversely affect their	ns will increase the the landscape to taller as larger wind turbines, widely visible on the ed skyline within the B, and be likely to a special qualities of ding the undeveloped emoteness and									
		proximity to the bour National Park, where may be similarly affe	ndary of the Broads the special qualities									

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity to the development type	↓	strong	utes do gly influ ivity in ion	ience	-	d ty	riterion/ evelopm /pe not pplicable	nent	×
Sensi Crite	itivity ria	Characteristics of t	he LCT		ators o	_			scepti	bility aı	nd valu	ue
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Other indica value	tors of	regular arable farmla intrusive large-scale and road infrastructu	ne combination of macular settlements, emnant field/roadside which is he extensive, flat and nd, and occasional modern development									
		Representativeness: The majority of the Larable farmland. Rarity:	CT is relatively typical	1	1	1	1	1	Ţ		1	1
		No rare landscape ty	oes present.	1	1	1	1	1	1	Ţ	#	1
		Intactness of the land adversely affected by agriculture and associatemovals.	20 th century intensive	1	1	1	1	1	Ţ	1	1	1
		the settlements, inclu Areas (Ludham, Catfi Stalham and Ingham buildings including ch	elatively limited and ted within and around uding Conservation eld, Potter Heigham, and isolated listed nurches (e.g. Holy de I], farmhouses and	-				-	_		_	_
		of the LCT, being res incursions of the adja designations (NNR, S extend marginally be	oughout the majority tricted to very small acent Broads PA and SAC), which	Î	1	1	1	1	1	Î	1	1

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity to the development type	Ţ	stron	utes do gly influ tivity in ion	ience	_	d ty	riterion/ evelopm pe not oplicable	nent	×
Sens Crite	itivity ria	for each development type						ie				
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		nigh value of these vity will be significantly s of development that small, discrete areas, vity in the remainder of ed.										
		National Trails prese	le recreational valueNo nt. Two small, isolated s Land (commons). The tional route crosses	_	_		-	_	-	_	-	_
		Literary / artistic ass Ingham church was t painting by renowned painter John Sell Cot however, this associa significant value to th landscape for the pure	he subject of a d Norfolk landscape man (1782-1842); ation does not add ne Settled Farmland	_						_	_	

Overall sensitivity to different development types

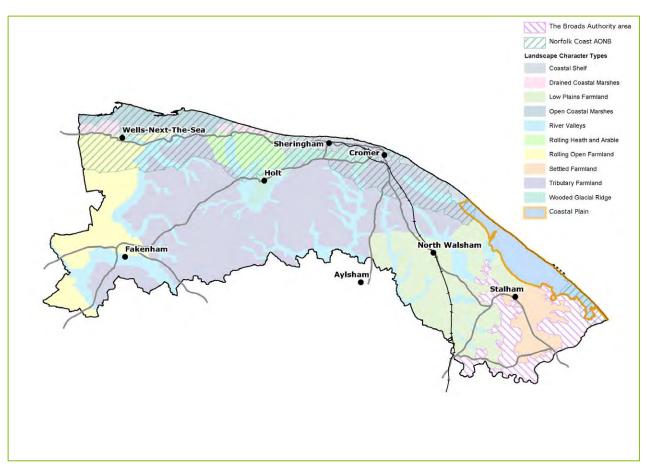
The following table provides an overall sensitivity rating, and justification for that rating, in relation to the relevant development types, based on the LCT sensitivity evaluation table above. It should be emphasised that the overall rating represents the typical sensitivity across the entire LCT, reflecting the strategic nature of this study. Localised areas where sensitivity is higher or lower than typical are outlined within the table, however there may be more localised variations in sensitivity within this.

Development Type	Reason for judgement	Typical Sensitivity
Large scale wind turbines, (up to 80m hub height)	 Typical sensitivity to large scale wind turbines is <i>high</i>: The flat landform, relatively large landscape scale, regular landscape pattern of arable fields and relatively low nature conservation interest (away from the Broads fringes) reduce sensitivity to large scale wind turbines. However, this is outweighed by the open, exposed and rural character, generally undeveloped skylines, punctuated by historic features, and the proximity to and frequent intervisibility with the Broads, which all increase sensitivity, particularly to the largest scale of turbine. Sensitivity is likely to be particularly high: Where there is strong visibility of turbines on the skyline from within the designated landscapes (the Broads and the AONB), and where their identified special qualities (notably the undeveloped character, sense of remoteness and tranquillity) would likely be affected by the development type; and In the vicinity of Conservation Areas (e.g. Ludham, Ingham, Stalham and Potter Heigham), and/or where this scale of turbine may dominate landmark skyline features, such as church towers. 	High
Medium scale wind turbines, (up to 60m hub height)	 Typical sensitivity to medium scale wind turbines is <i>moderate-high</i>: The flat landform, relatively large landscape scale, regular landscape pattern of arable fields and relatively low nature conservation interest (away from the Broads fringes) reduce sensitivity to medium scale wind turbines. However, this is outweighed by the open, exposed and rural character, generally undeveloped skylines, punctuated by historic features, and the proximity to and frequent intervisibility with the Broads, which all increase sensitivity. Overall, sensitivity to this scale of turbine is considered to be moderate-high. Sensitivity is likely to be higher: Where there is strong visibility of turbines on the skyline from within the designated landscapes (the Broads and the AONB), and where their identified special qualities (notably the undeveloped character, sense of remoteness and tranquillity) would likely be affected by the development type; and In the vicinity of Conservation Areas (e.g. Ludham, Ingham, Stalham and Potter Heigham), and/or where this scale of turbine may dominate landmark skyline features, such as church towers. 	Moderate-High
Small scale wind turbines, (up to 30m hub height)	 Typical sensitivity to small scale wind turbines is <i>moderate</i>: The flat landform, relatively large landscape scale, regular landscape pattern of arable fields and relatively low nature conservation interest (away from the Broads fringes) reduce sensitivity to small scale wind turbines. However, the open, exposed and rural character, generally undeveloped skylines, punctuated by historic features, and the proximity to and frequent intervisibility with the Broads, all increase sensitivity so that overall this is moderate. Sensitivity is likely to be particularly high: Where there is strong intervisibility with designated landscapes of particularly high scenic quality (the Broads and the AONB), whose 	Moderate

Development Type	Reason for judgement	Typical Sensitivity
	 identified special qualities would be affected by the development type; and In the vicinity of Conservation Areas (e.g. Ludham, Ingham, Stalham and Potter Heigham), and/or where turbines may compete with landmark skyline features, such as church towers. Sensitivity is likely to be lower: In localised areas of lower intervisibility with the designated landscapes; In proximity to modern larger-scale human influence/development, such as modern farm complexes and large storage sheds, main roads, Catfield industrial estate and Ludham gas depot. 	
Field-scale solar PV development (above 10 hectares site area)	 Typical sensitivity to field-scale solar PV development is <i>moderate</i>: The flat landform, relatively large landscape scale, regular landscape pattern of arable fields and relatively low conservation interest (away from the Broads fringes) reduce sensitivity to field-scale solar PV development. However, the open, exposed and rural character, frequent human-scale features, including historic landmarks, and the proximity to the Broads, increase sensitivity. Sensitivity is likely to be particularly high: Where intervisibility between field-scale solar PV development and a designated landscape may exist and affect its high scenic quality/special qualities; and In the vicinity of Conservation Areas (e.g. Ludham, Ingham, Stalham and Potter Heigham). Sensitivity is likely to be lower: Where there is lower or no intervisibility with the designated landscapes; and Where localised presence of woodland/higher hedgerows or existing modern larger-scale development/human influence may afford greater visual screening and containment of solar panels, and/or be less likely to affect rural character. 	Moderate
Onshore cable routes for offshore wind farms (30m – 80m clearance)	 Typical sensitivity to onshore cable routes is <i>moderate</i>: The regular landscape pattern of arable fields and relatively low prevalence of cultural heritage, wildlife and earth science designations reduce sensitivity to onshore cable routes. However, the open, exposed and rural character increase sensitivity. Sensitivity is likely to be particularly high: Around the Broads fringes, where naturalistic landcover is more frequent, nature conservation value is higher and special qualities of the Broads (including valued habitats, sense of remoteness and tranquillity) may be affected by proximity to onshore cable routes; and In the vicinity of Conservation Areas (e.g. Ludham, Ingham, Stalham and Potter Heigham). Sensitivity is likely to be lower: Within the large areas of modern arable farmland (away from the Broads fringes) of low nature conservation interest. 	Moderate
Commercial battery storage schemes, Cable relay stations and sub-stations (for offshore wind farms) and Anaerobic digestion plants (typical size range 2.5 – 8 ha)	Typical sensitivity to industrial type developments is <i>moderate</i> : • Across the majority of the landscape susceptibility and value criteria do not strongly influence sensitivity in either direction in relation to these development types, except the open, exposed and rural character, generally undeveloped skylines punctuated by historic features, and the proximity to and occasional intervisibility with the Broads, which all increase sensitivity and the lack of significant time depth across this predominantly modern arable landscape, which reduces sensitivity. Sensitivity is likely to be higher:	Moderate

Development Type	Reason for judgement	Typical Sensitivity		
	 In proximity to the Broads/AONB, from which views may exist of the built form associated with industrial type developments (particularly taller elements/features) within the LCT, and be likely to affect their special qualities (e.g. undeveloped character, sense of remoteness and tranquillity); and In the vicinity of Conservation Areas (e.g. Ludham, Ingham, Stalham and Potter Heigham), and/or where such development may compete with landmark skyline features, such as church towers. Sensitivity is likely to be lower: Where there are no views of these forms of development from the designated landscapes; and Where localised presence of woodland/higher hedgerows or existing modern larger-scale development/human influence may afford greater visual screening and containment of built form, and/or be less likely to affect rural character. 			
Reservoirs (typical size range 2 – 5ha)	 Typical sensitivity to reservoirs is <i>moderate</i>: The generally large, regular arable fields increase the apparent scale of the landscape, which reduces sensitivity to reservoirs as they can be more easily accommodated within single fields. However, this is counterbalanced by the flat landform and strong sense of openness, with limited hedgerow screening, which generally increases sensitivity to reservoirs, as their embankments can be less naturally integrated into the surrounding landscape, making them appear more prominent. Sensitivity is likely to be higher: In proximity to the Broads, from which views may exist of reservoir embankments within the LCT, and where these would be likely to affect their special qualities (e.g. undeveloped character, sense of remoteness and tranquillity); and In the vicinity of Conservation Areas (e.g. Ludham, Ingham, Stalham and Potter Heigham), and/or where such development may compete with landmark skyline features, such as church towers. Sensitivity is likely to be lower: Where there are no views of this form of development from the designated landscapes; and Where localised presence of woodland/higher hedgerows or existing modern larger-scale development/human influence may afford greater visual screening and containment of reservoirs, and opportunities to integrate new planting screening on embankments without adversely affecting existing landscape character. 	Moderate		





Baseline Landscape

Introduction to the Landscape Character Type

The Coastal Plain Type is characterised by a flat or nearly flat open coastal landscape of predominantly Grade 1 arable farmland with some more naturalistic habitats, especially in the south towards the Broads and along the dynamic coastal margin.

The southern part of the Type borders the Broads (Broads Authority Executive Area), and the Norfolk Coast AONB overlaps with the Type at its northern and southern ends. The majority of the LCT is also within North Norfolk's Undeveloped Coast policy area.

Component Character Areas

There is one continuous area of Coastal Plain in North Norfolk:

CP1 - Bacton to Waxham Coastal Plain

Key Characteristics¹

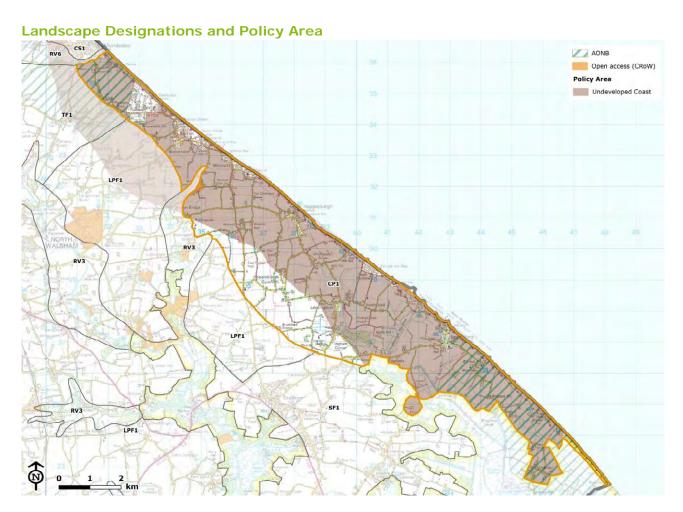
- Flat or very flat terrain, with some minor but noticeable undulations
- An eroding coastal edge comprising low cliffs along the northern stretch, including the nationally significant Mundesley Cliffs SSSI and coastal dunes to the south, both of which are Priority Habitats
- A rural landscape in which arable land use predominates with small pockets of pasture around settlement and some farmsteads
- A very open, large-scale and windswept landscape with large fields bounded by ditches and/or banks, often without a hedge
- Low level of woodland cover throughout the Type
- · Settlement comprises dispersed rural villages, farmsteads and coastal holiday development
- Substantial industrial development at Bacton Gas Terminals
- · A network of minor rural roads feeding off the B1159
- · A higher than average number of public rights of way
- A remote southern area situated between coastal dunes and the Broads
- · Long views along the coast, and church towers as landmark features

Valued features and qualities

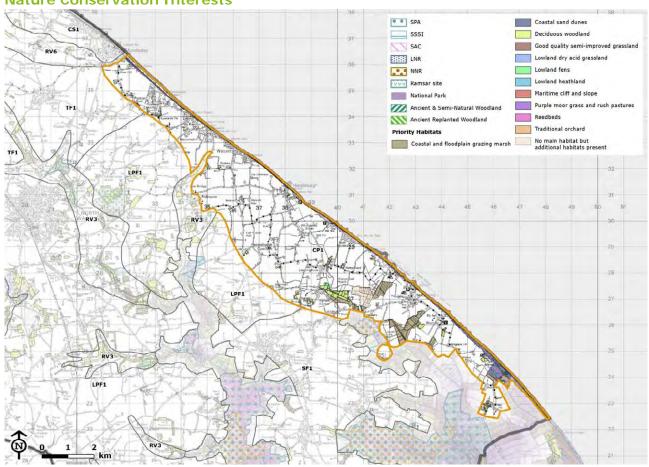
- The strong sense of remoteness, tranquillity and wildness including dark skies in undisturbed areas
- · Highly productive farmland
- · Remnant semi-natural habitats
- Historic villages, farmsteads and barns
- 20th century wooden bungalows, chalets and wartime defensive structures
- Rural lanes and footpaths
- Long views punctuated by distinctive skyline features including numerous church towers

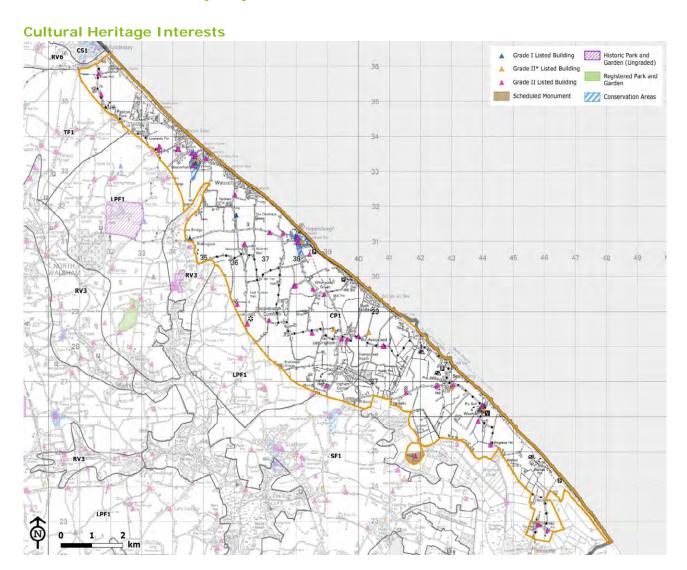
¹ Detailed information about landscape character and valued features is set out in the North Norfolk Landscape Character Assessment (2018)





Nature Conservation Interests





Landscape Sensitivity Evaluation

Criteria Appraisal

The following table illustrates the appraisal of the Coastal Plain LCT against the sensitivity criteria which have been predetermined for the development types.

KEY	increas	Attributes generally decrease sensitivity to the development type		Attributes do not strongly influence sensitivity in either direction					dev type	Criterion/ development type not applicable		
	Sensitivity Characteristics of the LCT Criteria		Indicators of higher/lower susceptibility and value for each development type									
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Susce	eptibilit	y Criteria										
Topog & skyl		churches and farmster undeveloped skylines by historic landmark towers. The major exundeveloped skylines Terminals site, which masts which are domover a wide area. The sensitivity to wind turn PV development and whilst increasing sensembankments are lessa flat landscape. How taller structures such counterbalanced by the	or rises (up to 10m cally the site of villages, cads. Generally occasionally punctuated features, notably church acception to the is the Bacton Gas includes tall telecom inant features in views a flat landform reduces bines, field-scale solar onshore cable routes, sitivity to reservoirs as a seasily integrated into evever, in the case of as turbines this is the generally with church towers as				Ţ	1				1
Lando	over	pasture associated wi the coastal edge, and throughout the Type. more naturalistic land southern part of CP1: the Broads fringes, in floodplain grazing ma lowland fens and reed narrow strip of coasta	Two distinct areas of dcover exist in the An inland area around cluding coastal and rsh, carr woodland, dbeds; and a long, all sand dunes, with g marsh, approximately	-	_			1			-	

KEY	increas	Attributes generally decrease sensitivity to the development type Attributes generally decrease sensitivity to the development type		Î	Attributes do not strongly influence sensitivity in either direction			Criterion/ development type not applicable			×	
Sensitivity (Criteria		Characteristics of the LCT		Indicators of higher/lower susceptibility and value for each development type								
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		recover from the tem Localised areas of mo	ent types, except for where sensitivity is of landcover is able to									
Sense openr enclos	ness/	A very open and windswept landscape with large fields bounded by ditches and/or banks, often without a hedge resulting in a strong sense of openness and lack of visual screening/containment, which increases sensitivity to any new development.		1	1	1	1	1	1	1	1	1
Scale (landf and comp featur landso patter comp	onent res), cape rn &	Field pattern is predominantly geometric and field size varies from large to medium, with some small pasture fields near cottages and the older settlements. The combination of very flat landform, regular arable farmland and low banks or ditches tends to increase the apparent scale and expanse of the landscape. However, the presence of vernacular villages, coastal holiday homes, narrow rural lanes, windmills and frequent farmsteads also introduces human-scale features which increase sensitivity to larger scale developments such as the larger wind energy developments or larger solar farms and reservoirs. Overall, these scale factors balance each other out for the larger scale developments (larger wind turbines, solar farms and reservoirs). The varied scale of the landscape does not influence sensitivity one way or the other for the other developments such as smaller scale turbines and cable relay stations, battery storage or AD plants.						**				
Sense tranq	of uillity/	There are some stror attributes between th	g variations in these e more developed parts									

KEY	increas	ites generally se sensitivity to velopment type	↓	strong	utes do gly influ ivity in ion	ience	_	deve type	erion/ elopme e not licable	nt	×	
Sensi Crite	itivity ria	Characteristics of t	he LCT			_	er/lov nent ty		sceptib	ility ar	nd valu	ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
ruralit level d huma influe	of n nce velope	character and large s the more remote sou together with large an farmland. The undew coastline which is wit greater sense of wildi undeveloped characte tranquillity, remotene rurality which prevails	a busier, less tranquil cale infrastructure, and thern part of the area, reas of quiet inland reloped southern hin the AONB also has a ness. Overall, the er, relative sense of ess and traditional in the majority of the by the presence of the olicy area) results in to all forms of	1	1	1	1	1	1	1	1	1
Time / histo	orical	dominated by 20 th ce enclosures, which has Other types present i 17 th – 20 th century re in the parts bordering unimproved freshwat coastal dunes around a greater time depth Overall, the predomit farmland throughout	we little time depth. nclude smaller areas of ctilinear grazing marsh, g the Broads, and er fen adjacent to the Horsey, which will have and historical continuity. nant modern agricultural	1	1	1	1	1	1	1	1	Ţ
Value	e Criteri	ia										
landso design and ea to whi	nations xtent ich special ies be	Norfolk Coast AONB: the Type (Mundesley and the far southern the District boundary southern part of the Broads (Broads Auth Any of the types of d	f the Type fall within the The far northern end of to Bacton Gasworks) part from Sea Palling to south of Horsey. The Type also borders the ority Executive Area). evelopment under study have the potential	1	1	1	1	1	1	1	1	1

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity to the development type	↓	stron	utes do gly influ ivity in ion	ience	_	deve type	erion/ elopme e not licable	nt	×
Sensi Crite	itivity ria	Characteristics of t	he LCT			_	er/lov		sceptib	oility a	nd valu	ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		to some extent, in particular undeveloped coastal remoteness, tranquil dark skies), importar the strong and distinguished the strong and and seapresence of these na	character, sense of lity and wildness (and at coastal habitats and ctive visual links a. As a result, the tionally valued sensitivity to all forms									
Other indica value	tors of	generally moderate sof the combination of coastline, historic verthe sense of tradition is counterbalanced by and regular arable fall hedgerows and wood	macular settlements and hal rurality inland, which by the large-scale, flat rmland with limited lland, and the presence hal ribbon development			-	1	1	1	1		1
		arable farmland, alth	nd dunes is a particularly which increases	_	_	_					_	
		Rarity: There are few rare la (e.g. coastal dunes, g freshwater fen) and t be avoided.	-	_	_	_	_		_	_	_	
		Intactness: Intactness of the land adversely affected by agriculture and associated agriculture and associated agriculture and associated agriculture and associated agriculture and agriculture and associated agriculture and associated agriculture and associated agriculture and agriculture and agriculture and agriculture and agriculture and agriculture and agriculture agricult	20 th century intensive	1	1	1	1	1	Ţ	Ţ	1	1

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity to the development type	Î	stron	utes do gly influ tivity in ion	uence	_	dev type	erion/ elopme e not licable	nt	×
Sensi Crite	itivity ria	Characteristics of t	he LCT		ators of	_		ver sus /pe	sceptik	oility a	nd valu	ле
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		removals, coupled wi hedgerows have not which reduces sensit	been maintained,									
		Nature conservation interests:	<u>& cultural heritage</u>									
		this landscape, but d buildings, such as the Great Barns, churche farmhouses and seve (Happisburgh, Bactor	eral Conservation Areas n) and Scheduled vity will be increased in	_	_	_	_	_	_	_	_	_
		nature conservation of there is a concentration the area, comprising Dunes SAC and SSSI Yarmouth North Den- small, discrete SAC a	es SPA. There is also a at Paston Great Barn, cortant bat population, ag to the cliffs at	_	_	_	-		_	_	_	_
		influence sensitivity i	tions does not strongly n either direction across CT, except in proximity									
		Recreational value:										
		number of PRoWs, co linked footpaths and the Norfolk Coast Pat particularly accessible areas of Open Access scattered across the	ch, making the area e. Small, isolated s Land (commons) are LCT, and several and other PRoWs cross every short section of	1	1	1	1	1	1	1	1	1

KEY	increas	Attributes generally increase sensitivity to the development type Attributes general decrease sensitivithe development the development			Attributes do not strongly influence sensitivity in either direction Attributes do not criterion/ development type not applicable							×
Sens Crite	characteristics of the LCT			Indicators of higher/lower susceptibility and value for each development type								ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		recreational use tend in the adjacent coast Literary / artistic asso										
	There are no known famous literary/artistic associations for the Coastal Plain landscape.		_	_	_					_	_	

Overall sensitivity to different development types

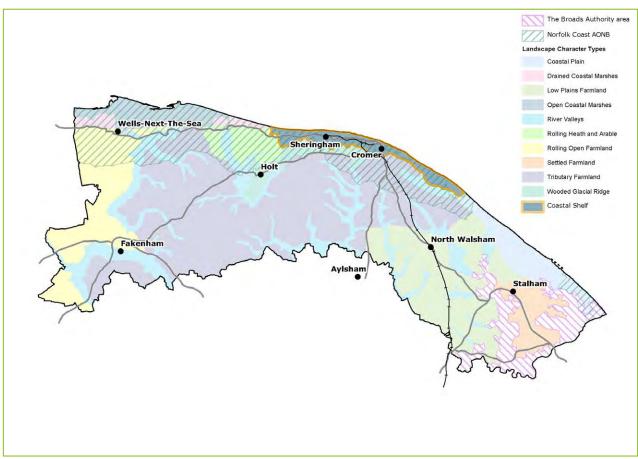
The following table provides an overall sensitivity rating, and justification for that rating, in relation to the relevant development types, based on the LCT sensitivity evaluation table above. It should be emphasised that the overall rating represents the typical sensitivity across the entire LCT, reflecting the strategic nature of this study. Notable areas where sensitivity is higher or lower than typical are outlined within the table, however there may be more localised variations in sensitivity within this.

Development Type	A O N B	Reason for judgement	Overall Sensitivity
Large scale wind turbines, (up to 80m hub height)	оит	Although the flat landform, typically large landscape scale and regular landscape pattern of arable fields might reduce sensitivity to large scale wind turbines in some situations, in this case the very open, exposed and predominantly tranquil rural character, frequent human-scale elements and generally undeveloped skylines punctuated by occasional historic landmark features all increase sensitivity, and would result in large scale turbines forming prominent skyline features across extensive parts of the District and along the coastline, including potentially within the AONB and the Broads. Overall, typical sensitivity to this scale of turbine is considered to be high. In addition, the Conservation Areas of Happisburgh and Bacton, and other isolated	High
		listed buildings and Scheduled Monuments also have cultural heritage sensitivities associated with them. Separate ecological sensitivities also exist in relation to the designated sites (SAC, SPA & SSSI).	
	IN	In addition to the above, the landscape within the AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and wildness, dark skies, and important, locally distinctive habitats. These nationally valued landscape qualities ensure the highest level of sensitivity in relation to large scale wind turbines.	High
Medium scale wind turbines, (up to 60m hub height)	оит	Although the flat landform, typically large landscape scale and regular landscape pattern of arable fields might reduce sensitivity to medium scale wind turbines in some situations, in this case the very open, exposed and predominantly tranquil rural character, frequent human-scale elements and generally undeveloped skylines punctuated by occasional historic landmark features all increase sensitivity so that overall, typical sensitivity to this scale of turbine is considered to be moderate-high .	Moderate- High
	IN	In addition to the above, the landscape within the AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and wildness, dark skies, and important, locally distinctive habitats. These nationally valued landscape qualities ensure the highest level of sensitivity in relation to medium scale wind turbines.	- High
Small scale wind turbines, (up to 30m hub height)	оит	Although the flat landform, typically large landscape scale and regular landscape pattern of arable fields reduces sensitivity to small scale wind turbines, this is counterbalanced by the very open, exposed and predominantly tranquil rural character, frequent human-scale elements and generally undeveloped skylines punctuated by occasional historic landmark features, which all increase sensitivity. Small scale wind turbines would be less prominent/dominant skyline features than the larger scale turbines, and also less extensively visible as components of the skyline across the LCT, and possibly beyond. Overall, typical sensitivity to this scale of turbine is considered to be moderate .	Moderate
		Localised areas of higher sensitivity exist in proximity to the AONB and the Broads, where this scale of turbine would be visible on the skyline and may adversely affect the special qualities of these designations (see below), and in proximity to cultural heritage assets such as Conservation Areas and listed buildings and where turbines may compete with landmark church towers for prominence.	

	IN	In addition to the above, the landscape within the AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and wildness, dark skies, and important, locally distinctive habitats. These nationally valued landscape qualities increase sensitivity to even small scale wind turbines, resulting in a high sensitivity to this scale of turbine.	High
Field-scale solar PV development (above 10 hectares site area)	OUT	The flat landform, relatively large landscape scale and typically regular landscape pattern of arable fields all reduce sensitivity to field-scale solar PV development. However, the sensitivity is increased by the open, exposed and strongly rural character, with limited screening potential due to the low presence of hedgerows and woodland cover. Overall, typical sensitivity to this type of development is considered to be moderate and any development would need to be sited with care. Localised areas of lower sensitivity exist in proximity to woodland blocks and within hedged fields, where higher vegetation would afford greater screening of solar panels.	Moderate
	IZ	In addition to the above, the landscape within the AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and wildness, dark skies, and important, locally distinctive habitats such as coastal dunes and fen. In this context, the presence of field-scale solar PV development, with its perceived industrial/urban appearance, would generally be at odds with the nationally valued undeveloped and naturalistic qualities of the AONB, increasing sensitivity to this form of development.	High
Onshore cable routes for offshore wind farms (30m-80m clearance)	оит	Whilst the flat landform, relatively large landscape scale, regular landscape pattern, predominant landcover of arable fields and limited time depth all reduce sensitivity to onshore cable routes, this is counterbalanced to an extent by the open, exposed and strongly rural character of the area, and its generally high recreational value. Nevertheless, typical sensitivity to this type of development is considered to be low-moderate, subject to careful routeing to avoid the more sensitive areas. Localised areas of higher sensitivity relate to those in proximity to the AONB and the Broadswhere the strong sense of remoteness and tranquillity could be adversely affected, and in proximity to nature conservation and cultural heritage assets.	Low- Moderate
	IN	In addition to the above, the landscape within the AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and wildness, dark skies, and important, locally distinctive habitats such as coastal dunes and fen. Cable laying could affect the undeveloped coastal character, sense of remoteness and tranquillity, and recreational value, for a temporary period, and could result in longer term impacts on naturalistic habitats (which also have a stronger time depth than the surrounding modern farmland), if not carefully routed / constructed. Therefore, typical sensitivity to underground cables is considered to be moderate-high in the areas of CP that fall within the AONB.	Moderate- High
Commercial battery storage schemes, Cable relay stations and sub-stations (for offshore wind farms) and Anaerobic digestion plants (typical size range 2.5	оит	The criteria appraisal above indicates that the majority of the landscape attributes in this area do not strongly influence sensitivity in either direction in relation to industrial type developments. The exceptions to this are the open, exposed and rural/tranquil character and typically high recreational value, which increase sensitivity; and the general lack of time depth and limited intactness of the modern arable farmland, which reduce sensitivity. Overall, typical sensitivity to industrial type developments is considered to be moderate . Localised areas of lower sensitivity exist in proximity to woodland blocks, within hedged fields and larger farm complexes with existing modern built form, where higher vegetation (which could be allowed to grow taller) and development would afford greater screening of the lower elements of industrial type developments.	Moderate

	1		
– 8 ha)		Localised areas of higher sensitivity exist in proximity to the AONB and the Broads, where such development would be visible on the skyline and may adversely affect their special qualities of natural beauty (see below), in proximity to cultural heritage assets such as Conservation Areas and listed buildings, and where they may be seen in combination with landmark church towers.	
	IN	In addition to the above, the landscape within the AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and wildness, dark skies, and important, locally distinctive habitats such as coastal dunes and fen. In this context, the presence of industrial type developments would generally be at odds with the nationally valued undeveloped and naturalistic qualities of the AONB, increasing sensitivity to this form of development.	High
Reservoirs (typical size range 2 – 5ha)	ОИТ	The criteria appraisal above indicates that the majority of the landscape attributes in this area do not strongly influence sensitivity in either direction in relation to reservoirs. The exceptions to this are the flat landform, open, exposed and rural/tranquil character and typically high recreational value, which increase sensitivity; and the general lack of time depth and limited intactness of the modern arable farmland, which reduce sensitivity. Overall, typical sensitivity to reservoirs is considered to be moderate . Localised areas of lower sensitivity may exist in proximity to slight undulations and variations in landform, woodland blocks, within hedged fields and larger farm complexes with existing modern built form, where higher vegetation (which could be allowed to grow taller) and development would afford greater screening / better integration of reservoir embankments. Localised areas of higher sensitivity exist in proximity to the AONB and the Broads, where the presence of reservoirs visible from within these designated areas may adversely affect their special qualities of natural beauty (see below). Separate cultural heritage sensitivities also exist in proximity to designated Conservation Areas and listed buildings.	Moderate
	IN	In addition to the above, the landscape within the AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and wildness, dark skies, and important, locally distinctive habitats such as coastal dunes and fen. In this context, the presence of reservoirs would generally be at odds with the nationally valued undeveloped and naturalistic qualities of the AONB, particularly where loss of or adverse impacts on natural habitats / landcover would occur, increasing sensitivity to this form of development.	Moderate- High





Baseline Landscape

Introduction to the Landscape Character Type

The Coastal Shelf type is characterised by the coastal strip of land, around 12 miles in length yet only 1 mile deep, which incorporates some of the District's principal settlements, sandwiched between the Cromer Ridge and the sea. Settlement is nestled within pockets of arable farmland and woodland, some of which are surprisingly rural and unspoilt. The presence of the historic holiday towns of Sheringham and Cromer, combined with the sandy beaches and frequent cliffs along the coast, creates a strong focus for tourism.

The more undeveloped parts of the Coastal Shelf type lie within the North Norfolk Coast AONB, whilst the main settlements (Sheringham, Cromer, Overstrand and Mundesley) are excluded from this designation. Similarly, North Norfolk's Undeveloped Coast policy area applies to the type, excluding the built-up areas. The western edge of the type is adjacent to, but outside, the North Norfolk Heritage Coast.

Component Character Areas

There is a single continuous area of Coastal Shelf in North Norfolk:

CS1 - Weybourne to Mundesley Coastal Shelf

Key Characteristics¹

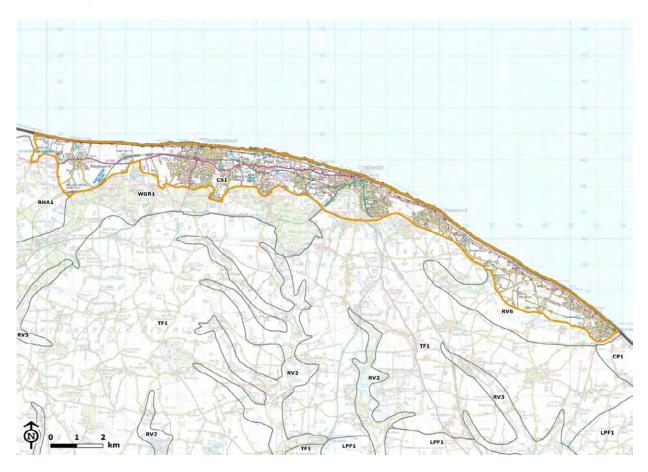
- Dramatic and distinctive topography
- An eroding coastline
- Tourism and leisure-related settlement and land use along the coast
- Differing settlement character of Cromer and Sheringham
- Open farmland and semi-natural habitats provide important biodiversity and visual separation between settlements
- More open character at the eastern end of the Coastal Shelf
- Less developed character at the western end of the Coastal Shelf
- Busy road network
- Trimingham Radome
- Panoramic views of the coast and Wooded Glacial Ridge

Valued features and qualities

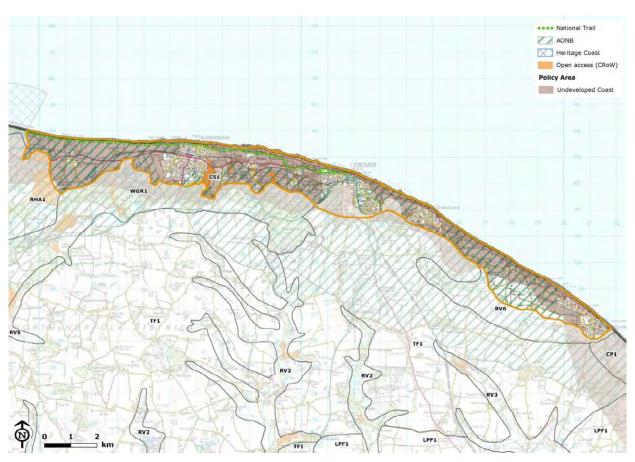
- Coastal character
- The separate identity of coastal settlements
- Distinctive skyline features
- Unspoilt, traditional character between Kelling Heath and Sheringham
- Recreational opportunities

¹ Detailed information about landscape character and valued features is set out in the North Norfolk Landscape Character Assessment (2018)

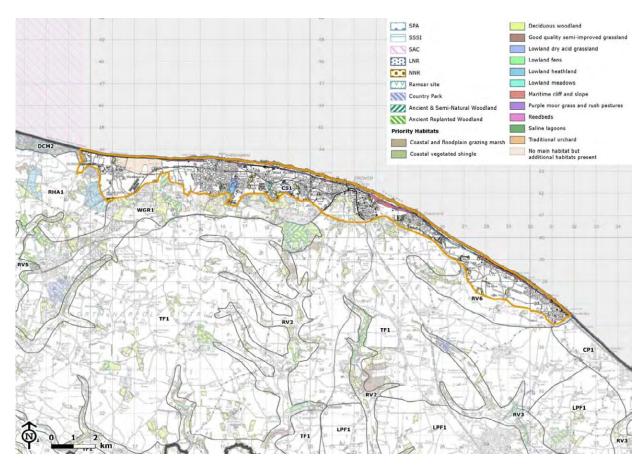
Location of CS1



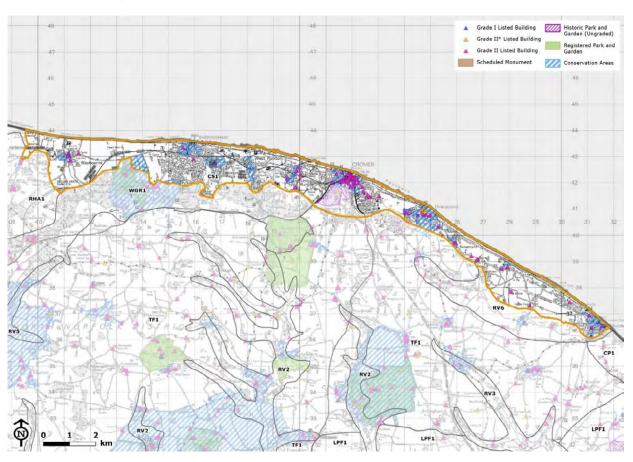
Landscape Designations and Policy Area



Nature Conservation Interests



Cultural Heritage Interests



Landscape Sensitivity Evaluation

The following table illustrates the appraisal of the Coastal Shelf LCT against the sensitivity criteria which have been predetermined for the development types under consideration.

KEY	incr	ibutes generally ease sensitivity he development	Attributes generally decrease sensitivity to the development type		stron	utes do gly influ tivity in ion	uence	_	Criter develong type in applic	opment not		*
Sensitiv Criteria	-	Characteristics of the	e LCT		ators o	_		ver su	sceptik	oility ar	nd val	ue for
			Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs	
Suscept	tibilit	y Criteria										
Topogra & skyline		The general topograph and undulating, resulti often screened from or of higher land, formed deposits, reaching tow Inland, the landform of towards the scarp slop Ridge, whereas there are latively flatter (but in alongside the coast, in isolated coastal hills are Despite the concentration skylines throughout the undeveloped, formed be backdrop of the Crome encloses views inland, horizon in views towar are many historic landing punctuate the skyline, prominent church tower Cromer, Weybourne are Weybourne windmill at lighthouse. Modern defentirely low-rise and/of the skyline; the main of the telecoms mast, which wooded ridge above Weybourne windmill and telecoms mast, which wooded ridge above Weybourne and diverting the modern of the skyline; the main of the skyline; the main of the skyline and diverting the modern of the skyline and the skyline and some slopes, together with the generally undeveloped sensitivity to wind turb solar PV development, routes and the taller elections.	ing in intimate areas he another by fingers of superficial glacial ards the coast. Iften rises sharply e of the Cromer are discrete areas of ot flat) land between the had 'bumps'. ion of settlement, e LCT are generally by the wooded er Ridge, which and the sea on the district the coast. There mark features which including numerous ers, such as those at had Beeston Regis, the had the Cromer evelopment is almost a not prominent on exceptions being one is prominent on the lest Runton, and the rese landform, which es such as the ne pronounced the prominent, skylines increase bines, field-scale onshore cable	1	1	1	1	1	Î	1	1	

KEY	incr	ibutes generally ease sensitivity ne development	Attributes generally decrease sensitivity to the development type		stron	utes do gly influ iivity in ion	ience	_	Criter develo type r applic		×	
Sensitiv Criteria	ity	Characteristics of the	E LCT		ators o	_		ver su		oility ar	nd val	ue for
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		type developments. The more opportunities to a reservoirs and associate which do not generally therefore sensitivity to lowered.	naturally integrate ed embankments, impact on skylines,									
Landcove	er	Landcover is varied, confarmland (predominant eastern ends of the LC areas/brownfield land, holiday/caravan parks for horse keeping, and areas such as the extension of the extension of the color of th	t at the western and tr), built-up golf courses and pasture, paddocks more naturalistic ensive beaches and ommons containing neath, dry acid itats (e.g. Beeston, Commons); some of a habitat mosaics. Teas, arable farmland the typical landcover influence sensitivity ept for onshore able to recover emporary cable The built-up areas and hard surfaces by in landscape forms of the scope of this mostification that the scope of this shabitats would result					1				

	increase sensitivity	Attributes generally decrease sensitivity to the development type		stron	utes do gly influ ivity in ion	ience	_	Criter develon type r applic	opment not		×
Sensitivi Criteria	Characteristics of the	LCT			of high		ver sus	sceptib	ility ar	nd valu	ue for
			Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Sense of openness, enclosure	In general, the coastal a exposed character, with enclosure. More inland ridge experience strong greater undulation and landform/landcover, froi itself and from the more copses and higher hedg on or around the lower: The typically open, expendictly open, expendic	limited sense of areas closer to the er enclosure, due to variation in m the wooded ridge e frequent woodland erows which occur slopes of the ridge. Osed parts of the tivity to all forms of oxides fewer	1	1	1	1	1	1	1	1	1
Scale (landform and componer features), landscape pattern & complexit	form), and the central a more complex mosaic o pasture fields, higher he	ern and eastern lly containing larger and irregular ireas containing a f smaller arable and edgerows and areas and grassland, th the edges of and leisure uses d caravan parks. typically small to nd intimate nich increases e developments bines, solar farms a lesser influence er developments rbines and cable	1	1	1	1	*				1
Sense of tranquillity remotene rurality & level of human	plants. The presence of many s including two towns, and	ettlements, d a relatively busy at levels of and rurality ally lower than	Ţ	1	1	1	Ţ	1	1	1	Û

KEY	Attributes ge increase sen to the develo	sitivity 1	Attributes generally decrease sensitivity to the development type	strongly influence sensitivity in either direction					Criter develo type r applic		×	
Sensitiv Criteria	ity Charac	teristics of the	e LCT		ators o	_		ver sus	sceptib	oility ar	nd valu	ue for
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
influence	under of Howev rurality the bust the we Shering the wo also re Undeversiti	er, many small and tranquillity sier parts of the stern end of the gham, and on the cognised and recloped Coast polyity in these are	ne lower slopes of ese qualities are inforced by the									
Time dep historical continuit	within 18 th , 11 enclose the are typicall sensitin under of Howev other t across discret informat pasture meado and wo exhibit continu	the LCT include of the and 20th centures, which occurs outside the sty have a low tirrity to all forms consideration. The consideration occurs the LCT and types, which occurs the LCT and types, smaller areas all parkland, unities, small farm cluw, historic earthoodland plantation.	a wide variety of ur infrequently oically occupy . These include mproved rough usters, enclosed nworks, commons ons, which will depth and historical ore increased	↓		1					1	

KEY	incre	butes generally ease sensitivity ne development	Attributes generally decrease sensitivity to the development type		stron	utes do gly influ ivity in ion	ience	_	Criter develo type r applic	opment not		×
Sensitiv Criteria	ity	Characteristics of the	e LCT		ators o	_		ver sus	sceptib	oility a	nd valu	ue for
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Value Cr	riteria	a										
Presence landscap designati and exter to which their sper qualities could be affected	e ions nt	As noted above, the material parts of the Coastal Shifthe North Norfolk Coastal shifthe North Norfolk Coastal shifthe North Norfolk Coastal shifthe North Norfolk Coastal shifthen the North Norfolk Coastal and Munde from this designation. Any of the types of device consideration in this standeration in the search of the North	relef type lie within at AONB, whilst the ringham, Cromer, risley) are excluded velopment under udy have the AONB's defined ne extent, in oped coastal moteness, tranquillity x skies), and the visual links between ult, the presence of a landscapes all forms of potentially affecting of their	1	1	1	1	1	1	1	1	1
Other indicators value	s of	High scenic quality: The parts of the LCT w the AONB are typically scenic quality. The de modern settlement / b road network detract fi while the presence of h cores, long views along inland to the wooded r landmark skyline featu quality. Representativeness: The majority of the LC	of a moderate nsity and extent of uilt form and busy rom scenic quality nistoric town / village g the coast and idge, and occasional ires enhance scenic									
		arable farmland, wood		_	_			_			_	
		Rarity: Few rare landscape typ	oes are present.				1	1		1	1	

KEY	incre	butes generally ease sensitivity ne development	Attributes generally decrease sensitivity to the development type		stron	utes do gly influ ivity in ion	ience	_	Criter develong type in applic	opment not		×
Sensitiv Criteria	ity	Characteristics of the	e LCT		ators o	_		ver sus	sceptib	oility a	nd val	ue for
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		Intactness: The landscape is not pathe farmland areas have affected by 20 th centuragriculture and associaremovals, and much pidevelopment has occur historic town and village prominent cliff-top care.	ye been adversely y intensive Ited hedgerow ecemeal and in-fill red in between the ge cores, e.g. many avan parks.	1	Î	1	Ţ	Î	1	Ţ	1	1
		Nature conservation & interests: There are several extercoastal cliffs designates soft cliff habitats, which rare species. Overstradesignated as a SAC are Weybourne, Beeston, Strimingham Cliffs are SCommon is also an inlaterelation to its lowland habitats.	nsive stretches of d for their important h host a number of nd Cliffs is nd SSSI, whilst, Sidestrand and SSSIs. Beeston Regis and SSSI and SAC in	1	1	1	1	1	1	1	1	1
		Priority habitats are tyl across the LCT, and ind woodland, lowland hea grassland, meadows, fo orchards.	clude deciduous thland, dry acid	1	1	1	1	1	1	1	Î	Î
		There is an above aver cultural heritage assets with many Conservation buildings focused arous settlement cores, e.g. West Runton & Overstrand Scheduled Mon II Registered Park and Pleasaunce, Overstrand	s within the LCT, on Areas and listed and the historic Weybourne, Cromer, rand. There are also numents and a Grade Garden at The	1	1	1	1	1	1	1	1	1

KEY	incr	ibutes generally ease sensitivity ne development	Attributes do not strongly influence sensitivity in either direction Criterion/ development type not applicable							:	×	
Sensitiv Criteria	ity	Characteristics of the	e LCT			of high		ver su	sceptik	oility a	nd valu	ue for
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
	Recreational value: Recreational value is high due to the combination of the extensive coastline and beaches, the Norfolk Coast Path National Trail, numerous golf courses, outdoor visitor attractions and PRoWs allowing access inland to the wooded ridge and associated Open Access Land.		1	1	1	1	1	1	1	1	1	
		Literary / artistic associated the Coastal Shelf lands depicted in the painting renowned Norfolk artist Sell Cotman, John Crast Crome. Cromer is also Emma by Jane Austen Cromer Hall is believed inspiration for Baskerv Arthur Conan Doyle's rathe Baskervilles.	scape has been gs of several ts, including John ske and John referenced in (1815), and I to have been the ille Hall in Sir	_	_		_	_	_	_	_	_

Overall sensitivity to different development types

The following table provides an overall sensitivity rating, and justification for that rating, in relation to the relevant development types, based on the LCT sensitivity evaluation table above. It should be emphasised that the overall rating represents the typical sensitivity across the entire LCT, reflecting the strategic nature of this study. Notable areas where sensitivity is higher or lower than typical are outlined within the table, however there may be more localised variations in sensitivity within this.

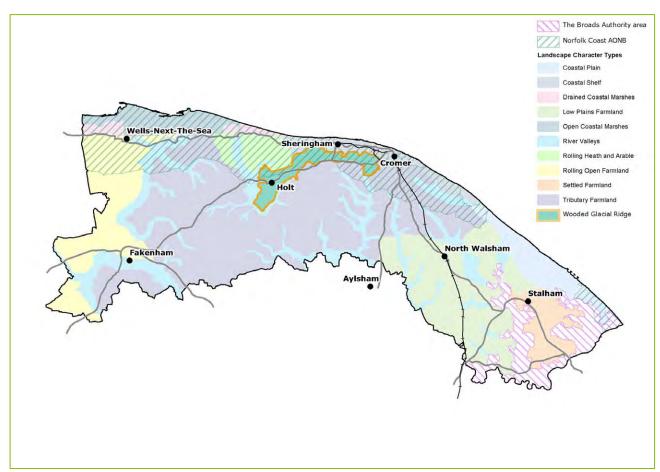
Development Type	A O N B	Reason for judgement	Overall Sensitivity
Large scale wind turbines, (up to 80m hub height)	ОUТ	Parts of the LCT outside the AONB (i.e. the main settled areas) have a busy character with much activity, low intactness and low time depth (outside the Conservation Areas and Scheduled Monument), which reduce sensitivity to large scale wind turbines. However, this is outweighed by the undulating and generally open character, intimate scale, and very frequent human scale features including landmark church towers which all increase sensitivity to large scale wind turbines. In addition, the presence of large scale wind turbines in this general area outside the AONB would result in them forming prominent skyline features visible from within the AONB, including in the long, uninterrupted and valued coastal views, which has the potential to adversely affect the defined AONB special qualities (see below). Overall, typical sensitivity to this scale of turbine is considered to be high.	High
	IN	In addition to the above, the landscape within the AONB is typically undeveloped, more strongly undulating, open and exposed, with a more prominent undeveloped skyline, areas of pronounced slopes and significantly greater tranquillity/lower human intervention; characteristics which further increase sensitivity to large scale turbines. The AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and wildness, dark skies, and important, locally distinctive habitats (e.g. soft cliffs). These nationally valued landscape qualities are likely to be adversely affected by the presence of large scale wind turbines, and ensure the highest level of sensitivity. The area around Sheringham Hall and Park and the Upper Sheringham Conservation Area (predominantly within the neighbouring Wooded Ridge LCT) will also have particular cultural heritage sensitivities associated with it.	High
Medium scale wind turbines, (up to 60m hub height)	ОПТ	Parts of the LCT outside the AONB (i.e. the main settled areas) have a busy character with much activity, low intactness and low time depth (outside the Conservation Areas and Scheduled Monument), which reduce sensitivity to medium scale wind turbines. However, this is outweighed by the undulating and generally open character with areas of a more intimate scale, and very frequent human scale features including landmark church towers which increase sensitivity to medium scale wind turbines. In addition, the presence of medium scale wind turbines in this general area outside the AONB would result in them forming prominent skyline features visible from within the AONB, including in the long, uninterrupted and valued coastal views, which has the potential to adversely affect the defined AONB special qualities (see below). Overall, typical sensitivity to this scale of turbine is considered to be high .	High
	IN	In addition to the above, the landscape within the AONB is typically undeveloped, more strongly undulating, open and exposed, with a more prominent undeveloped skyline, areas of pronounced slopes and significantly greater tranquillity/lower human intervention; characteristics which further increase sensitivity to medium scale turbines. The AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and wildness, dark skies, and important, locally distinctive habitats (e.g. soft cliffs).	High

ОПТ	These nationally valued landscape qualities are likely to be adversely affected by the presence of medium scale wind turbines, and ensure the highest level of sensitivity. The area around Sheringham Hall and Park and the Upper Sheringham Conservation Area (predominantly within the neighbouring Wooded Ridge LCT) will also have particular cultural heritage sensitivities associated with it. Parts of the LCT outside the AONB (i.e. the main settled areas) have a busy character with much activity, low intactness and low time depth (outside the Conservation Areas and Scheduled Monument), which reduce sensitivity to small scale wind turbines. However, this is outweighed by the undulating and generally open character with very frequent human scale features including landmark church towers, which increase sensitivity to even small scale wind turbines. In addition, small scale turbines could be visible from within the AONB, including in the long, uninterrupted and valued coastal views, which has the potential to adversely affect the defined AONB special qualities (see below). Overall, typical sensitivity to this scale of turbine is considered to be moderate-high.	Moderate- High
	In addition to the above, the landscape within the AONB is typically undeveloped, more strongly undulating, open and exposed, with a more prominent undeveloped skyline, areas of pronounced slopes and significantly greater tranquillity/lower human intervention; characteristics which further increase sensitivity to small scale turbines. The AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and wildness, dark skies, and important, locally distinctive habitats (e.g. soft cliffs). These nationally valued landscape qualities are likely to be adversely affected by the presence of small scale wind turbines, and ensure the highest level of sensitivity. The area around Sheringham Hall and Park and the Upper Sheringham Conservation Area (predominantly within the neighbouring Wooded Ridge LCT) will also have particular cultural heritage sensitivities associated with it.	High
ОПТ	Parts of the LCT outside the AONB (i.e. the main settled areas) have a busy character with much activity, low intactness and low time depth (outside the Conservation Areas and Scheduled Monument), which reduce sensitivity to field-scale solar PV development. However, this is outweighed by the undulating and generally open character with intermittent presence of hedgerow field boundaries (which reduces opportunities for screening), the generally irregular scale and form of fields, with high recreational value, particularly in the vicinity of the coast, which increase sensitivity to field-scale solar PV development. Overall, this scale of solar PV development would be difficult to sensitively accommodate and screen in this open coastal landscape, and typical sensitivity is considered to be moderate-high .	Moderate- High
IN	In addition to the above, the landscape within the AONB is typically undeveloped, more strongly undulating, open and exposed, with a more prominent undeveloped skyline, areas of pronounced slopes and significantly greater tranquillity/lower human intervention; characteristics which further increase sensitivity to field-scale solar PV development. The AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and wildness, dark skies, and important, locally distinctive habitats (e.g. soft cliffs). These nationally valued landscape qualities are likely to be adversely affected by the presence of field-scale solar PV development, and ensure the highest level of sensitivity. The area around Sheringham Hall and Park and the Upper Sheringham	High
	OUT	the presence of medium scale wind turbines, and ensure the highest level of sensitivity. The area around Sheringham Hall and Park and the Upper Sheringham Conservation Area (predominantly within the neighbouring Wooded Ridge LCT) will also have particular cultural heritage sensitivities associated with it. OUT Parts of the LCT outside the AONB (i.e. the main settled areas) have a busy character with much activity, low intactness and low time depth (outside the Conservation Areas and Scheduled Monument), which reduce sensitivity to small scale wind turbines. However, this is outwelphed by the undulating and generally open character with very frequent human scale features including landmark church towers, which increase sensitivity to even small scale wind turbines. In addition, small scale turbines could be visible from within the AONB, including in the long, uninterrupted and valued coastal views, which has the potential to adversely affect the defined AONB special qualities (see below). Overall, typical sensitivity to this scale of turbine is considered to be moderate-high. IN In addition to the above, the landscape within the AONB is typically undeveloped, more strongly undulating, open and exposed, with a more prominent undeveloped skyline, areas of pronounced slopes and significantly greater tranquility/lower human intervention: characteristics which further increase sensitivity to small scale turbines. The AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, and wildness, dark skies, and important, locally distinctive habitats (e.g. soft cliffs). These nationally valued landscape qualities are likely to be adversely affected by the presence of small scale wind turbines, and ensure the highest level of sensitivity. The area around Sheringham Hall and Park and the Upper Sheringham Conservation Area for producing the value in the producing of fields, with high recreational value, particularly in the vicinity of th

Onshore cable routes for offshore wind farms (30m-80m clearance)	ООТ	Whilst there are smaller areas of relatively flatter, arable farmland within the parts of the LCT outside the AONB, which have a lower sensitivity to onshore cable routes, these are interspersed with more varied landcover including built-up areas and housing, and extensive stretches of cliffs are designated as SSSIs due to their nationally valued geological and/or ecological interest, which increase sensitivity. Sensitivity is also increased by the generally open and exposed character, high recreational value, particularly in the vicinity of the coast, the presence of Beeston Regis Common SSSI and SAC and cultural heritage designations such as Conservation Areas and a Scheduled Monument at Beeston Regis Priory. Overall, typical sensitivity to this type of development is considered to be moderate-high .	Moderate- High
	IX	The landscape within the AONB has a predominantly arable landcover, which has a lower sensitivity to onshore cable routes. However, this is counterbalanced by an undulating landform, prominent undeveloped skyline, areas of pronounced slopes, tranquillity/low human intervention and frequent naturalistic landcover (e.g. further extensive soft cliffs including Overstrand Cliffs SSSI and SAC, as well as pasture, dry acid grassland, woodland, lowland heath and fen); characteristics which increase sensitivity to cable laying. The AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and wildness, dark skies, and important, locally distinctive habitats. Cable laying could affect the undeveloped coastal character, sense of remoteness and tranquillity, and recreational value, for a temporary period, and could result in permanent or long term impacts on naturalistic habitats, unless carefully routed/constructed. Typical sensitivity to underground cables is considered to be moderate-high in the areas of the LCT that fall within the AONB. The area around Sheringham Hall and Park and the Upper Sheringham Conservation Area (predominantly within the neighbouring Wooded Ridge LCT) will also have particular cultural heritage sensitivities associated with it.	Moderate- High
Commercial battery storage schemes, Cable relay stations and substations (for offshore wind farms) and Anaerobic digestion plants (typical size range 2.5 – 8 ha)	оит	Parts of the LCT outside the AONB (i.e. the main settled areas) have a busy character with much activity, low intactness and low time depth (outside the Conservation Areas and Scheduled Monument), which reduce sensitivity to industrial type developments. However, this is outweighed by the generally open character with intermittent or low presence of hedgerow field boundaries and larger areas of trees and woodland (which reduces opportunities for screening), the generally irregular scale and form of fields, with some more intimate areas, very frequent human scale features and high recreational value, particularly in the vicinity of the coast, which all increase sensitivity to industrial type development. Overall, this form of development would be difficult to sensitively accommodate and screen in this open coastal landscape without harm to key landscape characteristics, and typical sensitivity is considered to be moderate-high outside the urban industrial estates. Areas of relatively lower sensitivity may exist amongst some of the existing urban areas such as industrial or commercial estates, or close to larger-scale built form (e.g. warehouses) within and on the edges of Cromer and Sheringham; however, these areas tend to be adjacent to or in close proximity to the AONB, so sensitive siting and screening would be a key consideration.	Moderate- High
	IN	In addition to the above, the landscape within the AONB is typically undeveloped, more strongly undulating, open and exposed, with a more prominent undeveloped skyline, areas of pronounced slopes and significantly greater tranquillity/lower human intervention; characteristics which further increase sensitivity to industrial type developments. The AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and wildness, dark skies, and important, locally distinctive habitats (e.g. soft cliffs). Industrial type developments have the potential to affect all of these	High

		qualities. Therefore, typical sensitivity to such development is considered to be high in the areas of the LCT that fall within the AONB. The area around Sheringham Hall and Park and the Upper Sheringham Conservation Area (predominantly within the neighbouring Wooded Ridge LCT) will also have particular cultural heritage sensitivities associated with it.	
Reservoirs (typical size range 2 – 5ha)	ОUТ	The relatively flatter topography of the parts of the LCT outside the AONB (i.e. the main settled areas) means that there are fewer opportunities to naturally integrate reservoir embankments within the surrounding landform, which increases sensitivity. Sensitivity is also increased by the generally open character with intermittent or low presence of hedgerow field boundaries and larger areas of trees and woodland (which reduces opportunities for screening), the generally irregular scale and form of fields, with some more intimate areas, very frequent human scale features and high recreational value, particularly in the vicinity of the coast. Overall, this form of development would be difficult to sensitively accommodate and screen in this open coastal landscape and typical sensitivity is considered to be moderate-high.	Moderate- High
	Z	In addition to the above, the landscape within the AONB is typically more strongly undulating, which increases opportunities to naturally integrate reservoir embankments within the surrounding landform, and lowers sensitivity. However, this is counterbalanced by the more undeveloped, open and exposed character, and significantly greater tranquillity/lower human intervention; characteristics which increase sensitivity to reservoir development. The AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and wildness, dark skies, and important, locally distinctive habitats (e.g. soft cliffs). Although reservoirs are unlikely to affect the undeveloped skylines within the AONB, they may be perceived in views from certain higher vantage points inland, affecting the sense of remoteness and tranquillity and undeveloped coastal character. Therefore, typical sensitivity to such development is considered to be moderate-high in the areas of the LCT that fall within the AONB. The area around Sheringham Hall and Park and the Upper Sheringham Conservation Area (predominantly within the neighbouring Wooded Ridge LCT) will	Moderate- High
		in views from certain higher vantage points inland, affecting the sense of remoteness and tranquillity and undeveloped coastal character. Therefore, typical sensitivity to such development is considered to be moderate-high in the areas of the LCT that fall within the AONB.	





Baseline Landscape

Introduction to the Landscape Character Type

The Wooded Glacial Ridge type relates to a terminal glacial moraine that forms a dramatic and distinctive landscape feature, characterised by a relatively steep, north-facing scarp slope, rising to a prominent ridgeline which gently descends and levels off inland to the south. The ridge is heavily wooded, including semi-natural woodland and forestry plantations, and is generally undeveloped, providing a focus for recreation.

Most of the Wooded Glacial Ridge type lies within the Norfolk Coast AONB, except for the area around Holt. A smaller area in proximity to the coast is also within North Norfolk's Undeveloped Coast policy area.

Component Character Areas

There is one distinct area of Wooded Glacial Ridge in North Norfolk:

WGR1 - Wooded Glacial Cromer Ridge

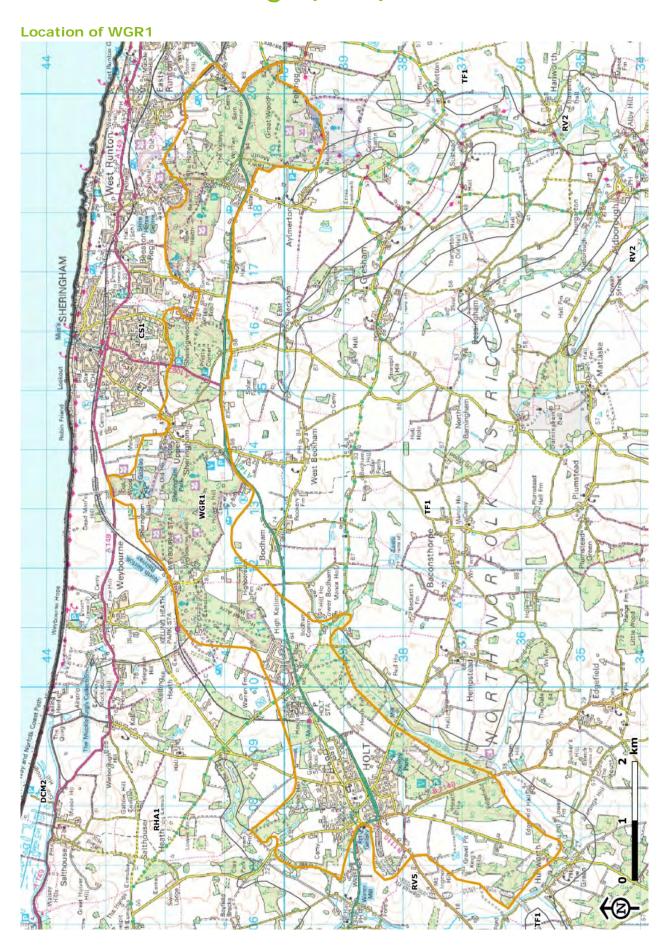
Key Characteristics¹

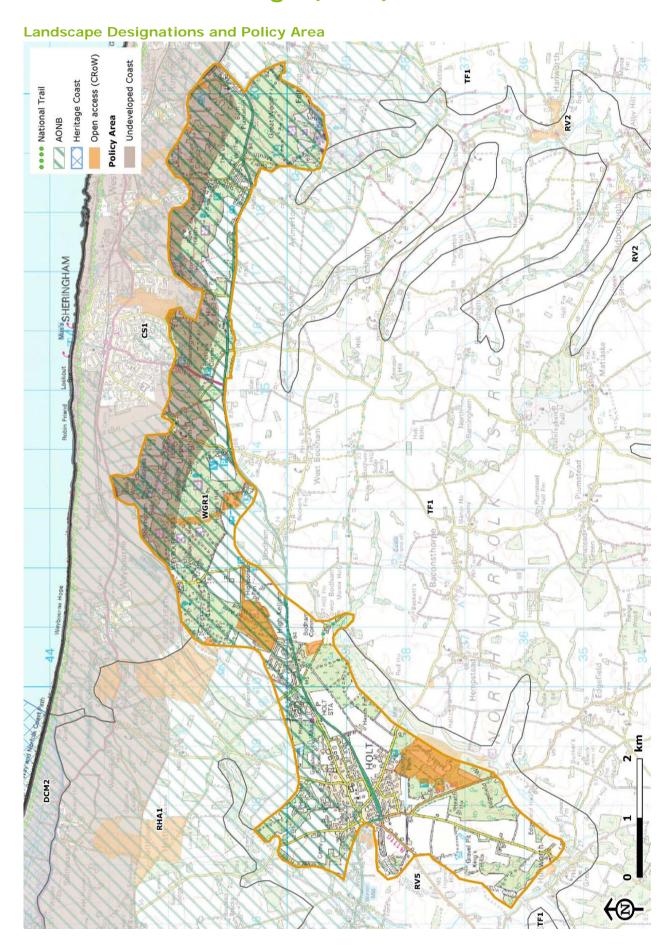
- Dramatic and distinctive topography and geomorphology
- Woodland is the dominant land cover
- · Panoramic views of the coast and inland
- Historic estates are important features
- A range of semi-natural habitats including ancient woodland and remnant heathland
- Holt and Holt Country Park
- Relatively busy road network
- · Plotland developments within the woodland around High Kelling

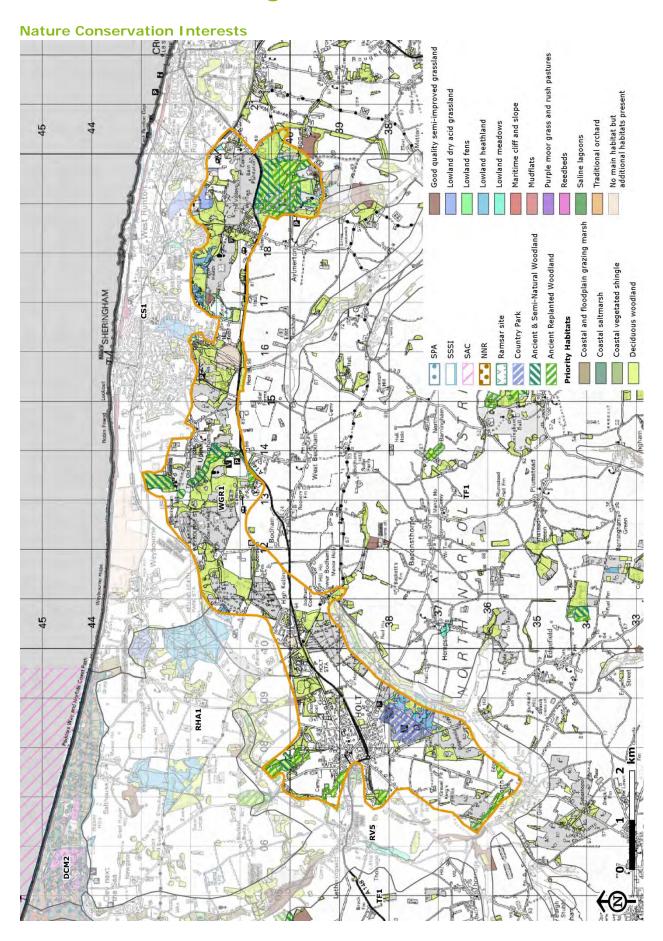
Valued features and qualities

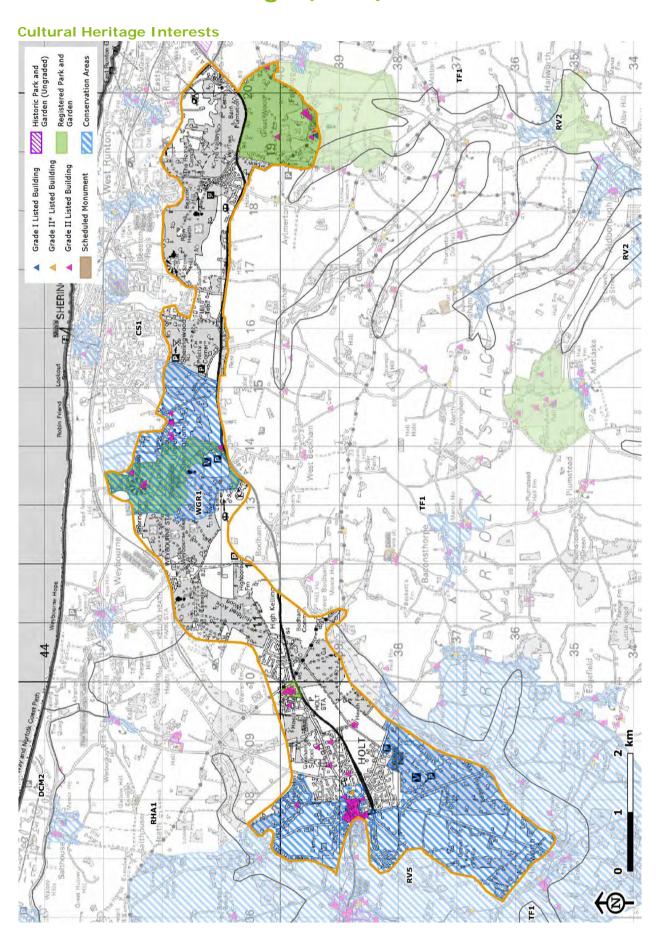
- The distinctive and prominent landform and land cover
- Parkland estates
- Important semi-natural habitats
- A strong sense of remoteness and tranquillity, and dark skies
- The historic and cultural interest of Holt
- · Recreational and leisure opportunities

¹ Detailed information about landscape character and valued features is set out in the North Norfolk Landscape Character Asssessment (2018)









Landscape Sensitivity Evaluation

The following table illustrates the appraisal of the Wooded Ridge LCT against the sensitivity criteria which have been predetermined for the development types under consideration.

KEY	increas	tes generally e sensitivity to relopment type	Attributes generally decrease sensitivity to the development type	Ţ	stron	utes do gly influ ivity in ion	ience	_	t t	Criterion/ developm type not applicable	nent	×
Sens Crite	itivity ria	Characteristics of t	he LCT			_	er/lov nent ty		scept	ibility aı	nd valu	ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Susc	eptibilit	y Criteria										
Topog & sky	graphy	ranging from the steer ridgeline itself and so which are all undulating latter areas are very localised, e.g. around. The wooded ridge for prominent and largely which due to its eleval prominent from neight than within the LCT it important component range views, particulate District, as well a from along the coast. Where present, settle form tends to be low-intrude on skylines. In modern telecoms mat top woodland north of a prominent skyline financial particularly from along the irregular and diving many pronounced slogenerally undevelope a prominent and distitutional particularly from along the irregular and distitutional prominent and distitutional prominent and distitutional particularly from along the irregular and distitutional prominent and distitutional particularly from along the irregular and distitutional prominent and distitutional particularly from along the irregular and distitutional particular and distitutional par	In the settlement of Holt. In a highly distinctive, or undeveloped skyline, ation is generally more abouring LCTs rather itself. The ridge is an atin some very long arly from the south of a shorter range views In a ment and other built be a ment and other built be a ment and does not a ment and does not a ment and other built be a ment and does not a ment and do	1	Î	Î	Î	Î	1	Î	Î	↓

KEY	increas	tes generally e sensitivity to relopment type	Attributes generally decrease sensitivity to the development type	↓	stron	utes do gly influ tivity in ion	ience	-	de ty	riterion/ evelopm pe not oplicable	nent	×
Sens Crite	itivity ria	Characteristics of t	he LCT			of high velopn			sceptil	oility ar	nd valu	ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		which do not generall therefore sensitivity t	ly impact on skylines, to reservoirs is lowered.									
Lando	cover	LCT is woodland, which developed on areas of and includes a combiforestry plantations (and semi-natural decof which is designated. Other landcover inclute inland slopes of the inland slopes of the inland slopes of the inland slopes, the built-up area outskirts of Cromer, settlement such as the holiday parks within High Kelling, and the Britons Lane north of Commercial forestry landcover and previous tend to have a lower forms of development naturalistic landcover woodland, heathland Given this variation and naturalistic and nontypical sensitivity to types under consider that there is no strong the other. The linear routes means that the removal likely to be inthe time needed for interesting the part of th	of former lowland heath, ination of commercial (principally conifers), ciduous woodland; some ad ancient woodland. Ides arable farmland on the ridge, some pasture d on the scarp, coastal areas of Holt and the lowland heath, scattered the plotlands housing and the woodland around a mineral working site at a Beeston Regis. Iplantations, arable the busly developed land sensitivity to most at compared with more ar such as semi-natural, parkland and pasture. The across the LCT between the total particular and the development of the developmen					1				

KEY	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity to the development type	1	strong	utes do gly influ ivity in ion	ience	_	t c	Criterion/ levelopm ype not ipplicable	nent	×
Sensi Crite	itivity ria	Characteristics of t	he LCT			of high velopn			cepti	bility ar	nd valu	ue
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
	The predominant, extensive woodlands provide significant enclosure and visual containment which typically reduces sensitivity to all forms of development under consideration, although the taller elements of wind turbines are not capable of being screened by vegetation. The more open, exposed parts of the LCT, such as where larger arable fields occur awar from the woodland, will have a higher sensitivity to all forms of development as the provides fewer opportunities to screen or visually absorb such development.				1	1	1	1	Ţ.	1	1	
Scale (landf and compo featur landso patter compo	form onent res), cape rn &	frequently a mosaic of experienced in combinanother, such as woo arable, pasture and some reduces the apparent landscape, particularly the sense of enclosur woodland. Fields tend to be more than in other LCTs as within surrounding woodlands the compounds the compounds the compounds the compounds the larger scale developments and reservoice.	las a more intimate, escale character than the District, as there is of different features nation with one dland, heathland, ettlement, which scale of the y when combined with e provided by the e irregular in shape they often adjoin or fit codland, which elexity of the landscape increase sensitivity to dopments such as field-pments, larger wind rs, whilst having a lesser developments such as and cable relay	Î	1		Î	*				1
Sense	e of uillity/	· · · · · · · ·	to larger settlements ringham and Holt, many									

KEY	increas	ibutes generally ease sensitivity to decrease sensit the development		Ţ	strono	utes do gly influ ivity in ion	ience	_	d t	Criterion/ development type not applicable			
Sens Crite	itivity ria	Characteristics of t	he LCT			_	er/lov nent ty		scepti	bility ar	nd valu	ıe	
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs	
rurali level huma influe Unde d Coa	of an ence velope	undeveloped and exhibit a sense of rurality and tranquillity. This is enhanced by the screening and enclosure provided by the woodland, creating a sense of separation away from these built-up areas and general			1	1	Î	1	1	1	1	1	
	depth orical nuity	both of which typicall reducing sensitivity to development under c Other HLC types are discrete areas throug	ises 18 th -20 th century, and there are also latively modern 18 th , agricultural enclosures; y have a low time depth, o all forms of consideration. present as smaller, hout the LCT and land, commons, heaths d, which all have a	Ţ	1	1	1	1	1	Ţ	Ţ	1	
Valu	e Criteri	ria											
lands desig and e to wh	nations extent nich special	type lies within the Nexcept for the area and Any of the types of deconsideration in this	round Holt. evelopment under study have the potential defined special qualities	1	1	1	1	1	1	1	1	1	

KEY	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity to the development type	Ţ	stron	utes do gly influ tivity in ion	ience	_	ı (Criterion/ developm type not applicable	nent	×
Sens Crite	sitivity eria	Characteristics of t	he LCT			_	er/lov nent ty		scept	ibility aı	nd valu	ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations	Commercial battery	Anaerobic digestion plants	Reservoirs
could affect		remoteness, tranquillity and wildness (and dark skies), and the strong and distinctive visual links between land and sea. As a result, the presence of this nationally value landscape increases sensitivity to all forms development within or potentially affecting these areas by virtue of their location/proximity.										
Other indica value	ators of	the AONB (i.e. south moderate scenic qua	workings and pig	- 1	-	-			_		-	
		open space such as I incorporates rare low habitats.	c areas of woodland and Holt Country Park, which Vland heath and fen									
		Representativeness: The landscape is a not region) of an extensi sandy/gravelly glacia	-	1	1	1	1	Î	Î	1	1	Î
		Rarity: Discrete areas of relawoodland and lowlan amongst the more confarmland, forestry are	d heathland exist ommon modern	1	1	1	1	1	1	1	1	1
		it includes extensive woodland) that have forested since at leas	=	_	_	_	_		=	-	_	_

KEY	increas	es generally e sensitivity to elopment type	Attributes generally decrease sensitivity to the development type	1	stron	utes do gly influ tivity in ion	ience	_	de ty	iterion/ evelopm pe not oplicable	ent	×
Sens Crite	itivity ria	Characteristics of t	he LCT			of high velopn			sceptib	oility ar	nd valu	ie
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		the more recent fore typically sited on, alt heathland (e.g. Holt survived, albeit fragm been adversely affect intensive agriculture hedgerow removals. Nature conservation interests: The LCT includes smarkegis Common and Ficontain lowland heath are designated as SS also ancient woodland. Sheringham Park, Fe Priority habitats includeciduous woodland, extensive, such as the Park and Felbrigg; are acid grassland, lowlafen, which are typicafragmented.	ented. Other areas have ted by 20 th century and associated & cultural heritage all parts of Beeston Holt Lowes, which hand fen habitats and SIs and SPAs. There is d in the vicinity of librigg Hall and Holt. Ide many areas of some of which are nose around Sheringham and lowland heath, dry nd meadow and lowland	1	1	1	1	1	1	1	1	1
		of assets occur arour Felbrigg Hall, which a Park and Gardens, as	er. The main groupings and Sheringham Hall and are Grade II* Registered is is Voewood nestled at High Kelling, and the of Holt, Upper	_	_	_	_	_	_			_
		of extensive Open Ac Forestry Commission Country Park (Holt),	nbination of many areas cess Land (typically land), the District's only and a fairly extensive roughout the area. The	1	1	1	1	1	1	1	1	1

KEY	increase	es generally e sensitivity to elopment type	Attributes generally decrease sensitivity to the development type	Ţ	Attributes do not strongly influence sensitivity in either direction			_	de ty	riterion/ evelopm pe not oplicable	nent	×
Sensitivity Criteria		Characteristics of the LCT		Indicators of higher/lower susceptibility and value for each development type								
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
	also a popular visitor attraction.											
		· ·		_			_	_	_	_	_	

Overall sensitivity to different development types

The following table provides an overall sensitivity rating, and justification for that rating, in relation to the relevant development types, based on the LCT sensitivity evaluation table above. It should be emphasised that the overall rating represents the typical sensitivity across the entire LCT, reflecting the strategic nature of this study. Notable areas where sensitivity is higher or lower than typical are outlined within the table, however there may be more localised variations in sensitivity within this.

Development Type	A O N B	Reason for judgement	Overall Sensitivity			
Large scale wind turbines, (up to 80m hub height)	оит	Parts of the LCT outside the AONB (e.g. south and east of Holt) have flatter, more regular topography and extensive plantation woodland cover which could indicate a lower sensitivity to wind turbines. However, this is outweighed by the generally undeveloped skylines, strongly rural and tranquil character, varied landscape scale, presence/proximity of important recreational resources, cultural and natural heritage designations (e.g Holt Country Park and Holt Lowes SSSI / SAC, and the Glaven Valley Conservation Area), which all increase sensitivity. In addition, the presence of large scale wind turbines in this general area outside the AONB would result in them forming skyline features visible from within the AONB, which has the potential to adversely affect the defined AONB special qualities (see below). Overall, typical sensitivity to this scale of turbine is considered to be high .				
	IN	In addition to the above, the landscape within the AONB is more strongly undulating, with a more prominent undeveloped skyline, areas of pronounced slopes, greater tranquillity/lower human intervention and more intimate, irregular scale; characteristics which further increase sensitivity to large scale turbines. The AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and wildness, dark skies, and important, locally distinctive habitats (e.g. lowland heath). These nationally valued landscape qualities ensure the highest level of sensitivity in relation to large scale wind turbines. The areas around Sheringham Hall and Park and Felbrigg Hall will also have particular cultural heritage sensitivities associated with them.	High			
Medium scale wind turbines, (up to 60m hub height)	оит	Parts of the LCT outside the AONB (e.g. south and east of Holt) have flatter, more regular topography and extensive plantation woodland cover, which could indicate a lower sensitivity to wind turbines. However, this is outweighed by the generally undeveloped skylines, strongly rural and tranquil character, varied landscape scale, presence/proximity of important recreational resources, cultural and natural heritage designations (e.g Holt Country Park and Holt Lowes SSSI / SAC, and the Glaven Valley Conservation Area), which all increase sensitivity. In addition, the presence of medium scale wind turbines in this general area outside the AONB would result in them forming skyline features visible from within the AONB, which has the potential to adversely affect the defined AONB special qualities (see below). Overall, typical sensitivity to this scale of turbine is considered to be high .	High			
	IN	In addition to the above, the landscape within the AONB is more strongly undulating, with a more prominent undeveloped skyline, areas of pronounced slopes, greater tranquillity/lower human intervention and a more intimate, irregular scale; characteristics which further increase sensitivity to medium scale turbines. The AONB is underpinned by its defined special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and wildness, dark skies, and important, locally distinctive habitats (e.g. lowland heath). These nationally valued landscape qualities ensure the highest level of	- High			

Wooded Glacial Ridge (WGR)

		sensitivity in relation to medium scale wind turbines.	
		The areas around Sheringham Hall and Park and Felbrigg Hall will also have particular cultural heritage sensitivities associated with them.	
Small scale wind turbines, (up to 30m hub height)	оит	Parts of the LCT outside the AONB (e.g. south and east of Holt) have flatter, more regular topography and extensive plantation woodland cover, which could indicate a lower sensitivity to wind turbines. However, this is outweighed by the generally undeveloped skylines, strongly rural and tranquil character, varied landscape scale, presence/proximity of important recreational resources, cultural and natural heritage designations (e.g Holt Country Park and Holt Lowes SSSI / SAC, and the Glaven Valley Conservation Area), which all increase sensitivity. In addition, the presence of small scale wind turbines in this general area outside the AONB could result in them forming skyline features visible from within the AONB, which has the potential to adversely affect the defined AONB special qualities (see below), although visibility would not be as extensive as for the larger scales of turbine. Overall, typical sensitivity to this scale of turbine is considered to be moderate-high .	Moderate- High
	IN	In addition to the above, the landscape within the AONB is more strongly undulating, with a more prominent undeveloped skyline, areas of pronounced slopes, greater tranquillity/lower human intervention and a more intimate, irregular scale; characteristics which further increase sensitivity to medium scale turbines. The AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and wildness, dark skies, and important, locally distinctive habitats (e.g. lowland heath). These nationally valued landscape qualities ensure the highest level of sensitivity in relation to wind turbines of this size.	High
		The areas around Sheringham Hall and Park and Felbrigg Hall will also have particular cultural heritage sensitivities associated with them.	
Field-scale solar PV development (above 10 hectares site area)	ОПТ	Parts of the LCT outside the AONB (e.g. south and east of Holt) are of a moderate scenic quality with a flatter, more regular topography, less prominent skylines, arable fields and extensive plantation woodland cover, and some hedgerows, which would help screen and visually contain field-scale solar PV developments and therefore reduce sensitivity to this type of development. However, this is counterbalanced by the generally irregular and small scale of fields, the strongly rural and tranquil character, sense of openness, presence/proximity of important recreational resources, cultural and natural heritage designations (e.g Holt Country Park and Holt Lowes SSSI / SAC, and the Glaven Valley Conservation Area), which all increase sensitivity. In addition, there are areas where solar panels would be visible from the AONB, which has the potential to adversely affect the defined AONB special qualities (see below). Overall, typical sensitivity to field-scale solar PV is considered to be moderate-high and any development would need to be sited with care.	
	IN	In addition to the above, the landscape within the AONB is more strongly undulating, with a more prominent undeveloped skyline, areas of pronounced slopes, greater tranquillity/lower human intervention, a more intimate, irregular scale and more frequent naturalistic landcover (e.g. lowland heath and deciduous woodland); characteristics which increase sensitivity to field-scale solar PV development. The AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and wildness, dark skies, and important, locally distinctive habitats (e.g. lowland heath). These nationally valued landscape qualities ensure the highest level of sensitivity in relation to field-scale solar PV development.	High

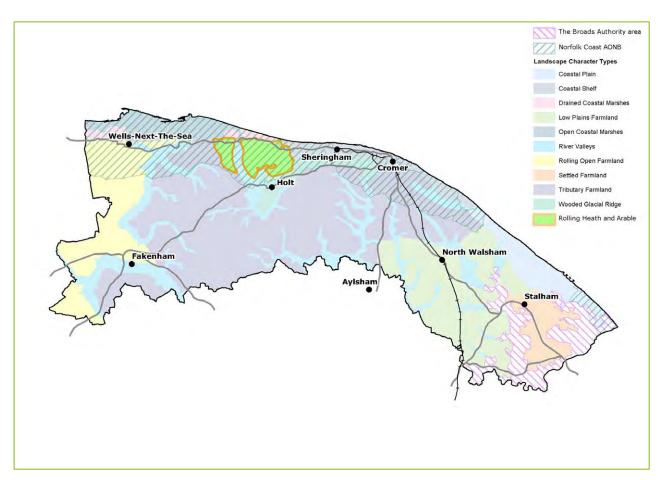
Wooded Glacial Ridge (WGR)

		The areas around Sheringham Hall and Park and Felbrigg Hall will also have particular cultural heritage sensitivities associated with them.	
Onshore cable routes for offshore wind farms (30m-80m clearance)	ОПТ	Whilst there are areas of flatter, regular arable farmland within the parts of the LCT outside the AONB, which have a lower sensitivity to onshore cable routes, the presence of extensive woodland cover means it is likely to be more difficult to route onshore cables so that woodland is avoided (compared to other LCTs). This,and the elevated nature of the landscape, increases sensitivity to buried cable routes. The strongly rural and tranquil character, and presence/proximity of important recreational resources, cultural and natural heritage designations (e.g Holt Country Park and Holt Lowes SSSI / SAC, and the Glaven Valley Conservation Area), also increase sensitivity to onshore cable routes. Overall, typical sensitivity to this type of development is considered to be moderate-high . Because of the existing landfall cable connection at Weybourne, there are already onshore cable routes extending through this LCT from Kelling to Bodham and there is potential demand for additional routes which will require detailed consideration given the sensitivity of this LCT.	Moderate- High
	IX	In addition to the above, the landscape within the AONB is more strongly undulating, with a more prominent undeveloped skyline, areas of pronounced slopes, greater tranquillity/lower human intervention and more frequent naturalistic landcover (e.g. lowland heath and deciduous woodland); characteristics which increase sensitivity to cable laying. The AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and wildness, dark skies, and important, locally distinctive habitats such as lowland heath and ancient woodland. Cable laying could affect the undeveloped coastal character, sense of remoteness and tranquillity, and recreational value, for a temporary period, and could result in permanent or long term impact on the important, naturalistic habitats and the prominent unbroken wooded ridge which is a key characteristic of this part of the AONB. Therefore, typical sensitivity to underground cables is considered to be high in the areas of the LCT that fall within the AONB. Because of the existing landfall cable connection at Weybourne, there are already onshore cable routes extending through this LCT from Kelling to Bodham and there is potential demand for additional routes which will require detailed consideration given the sensitivity of this LCT.	High
battery storage schemes, Cable relay stations and sub- stations (for offshore wind farms) and Anaerobic digestion plants (typical size range 2.5	оит	Areas of commercial forestry plantations exist in the part of the LCT south and east of Holt, which would provide significant screening and visual containment of industrial type developments, lowering sensitivity (the taller elements may still be visible on the skyline above the woodland). However, the strongly rural and tranquil character, more open and exposed areas of arable farmland and presence/proximity of important recreational resources, cultural and natural heritage designations (e.g Holt Country Park and Holt Lowes SSSI / SAC, and the Glaven Valley Conservation Area), all increase sensitivity to industrial type developments. These may also be perceived from within the AONB, with the potential to adversely affect the defined AONB special qualities (see below). Overall, typical sensitivity to this type of development is considered to be moderate-high .	Moderate- High
– 8 ha)	IN	In addition to the above, the landscape within the AONB has a more prominent undeveloped skyline, areas of pronounced slopes, greater tranquillity/lower human intervention and more frequent naturalistic landcover (e.g. lowland heath and deciduous woodland); characteristics which increase sensitivity to industrial type developments. The AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and wildness, dark skies, and important, locally distinctive habitats such as lowland	High

Wooded Glacial Ridge (WGR)

		heath and ancient woodland. Industrial type developments have the potential to affect all of these qualities. Therefore, typical sensitivity to such development is considered to be high in the areas of the LCT that fall within the AONB.	
Reservoirs (typical size range 2 – 5ha)	ООТ	The flatter topography of the parts of the LCT outside the AONB (south and east of Holt) means that there are few opportunities to naturally integrate reservoir embankments within the surrounding landform, which could increase the visual prominence of embankments and therefore sensitivity. Sensitivity is also increased by the rural and tranquil character of the area, more open and exposed areas of arable farmland away from woodland and presence/proximity of important recreational resources, cultural and natural heritage designations (e.g Holt Country Park and Holt Lowes SSSI / SAC, and the Glaven Valley Conservation Area). These may also be perceived from within the AONB, with the potential to adversely affect the defined AONB special qualities (see below). This is counterbalanced by the presence of some larger arable fields in combination with the extensive woodland cover, providing areas where reservoirs and associated embankments would be significantly screened and visually contained, which lowers sensitivity. Overall, typical sensitivity to this type of development is considered to be moderate-high .	Moderate- High
	IN	In addition to the above, the landscape within the AONB has a more prominent undeveloped skyline, visible slopes, greater tranquillity/lower human intervention and more frequent naturalistic landcover (e.g. lowland heath and deciduous woodland); characteristics which increase sensitivity to reservoir developments. The AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and wildness, dark skies, and important, locally distinctive habitats such as lowland heath and ancient woodland. Whilst there may be isolated coniferous woodland areas within the AONB where reservoirs could be visually screened (in proximity to the farmland which they would irrigate), their presence is still likely to conflict with its undeveloped character, naturalistic qualities (including tranquillity and remoteness) and recreational value. Therefore, typical sensitivity to such development is considered to be high in the areas of the LCT that fall within the AONB.	High





Baseline Landscape

Introduction to the Landscape Character Type

The Rolling Heath and Arable Type is characterised by a predominantly elevated, open rolling landscape with a strong coastal influence, and very light sandy soils which are marginal in agricultural terms. Land cover is notable for lowland heath, arable farmland, pockets of scrub and woodland, with little settlement inland from the coastal villages of Blakeney and Salthouse.

All of the Rolling Heath & Arable type lies within the Norfolk Coast AONB, and small pockets of land either side of Blakeney also fall within the North Norfolk Heritage Coast. Part of this landscape is also within North Norfolk's Undeveloped Coast policy area.

Component Character Areas

There is one area of Rolling Heath & Arable in North Norfolk, on either side of the Glaven Valley:

RHA1 - North Norfolk Rolling Heath & Arable

Key Characteristics¹

- Distinctive glacial topography
- An open, elevated character affording long views to the coast and inland
- Extensive heathlands and woodland blocks are prominent features
- · A strong rural character, with nature conservation interest and tourism land uses
- · Concentration of settlement along the coast
- The Kelling Estate
- Frequent disused sand and gravel pits
- Characterful minor roads linking the busier A149 coast road and A148 Cromer to Fakenham road

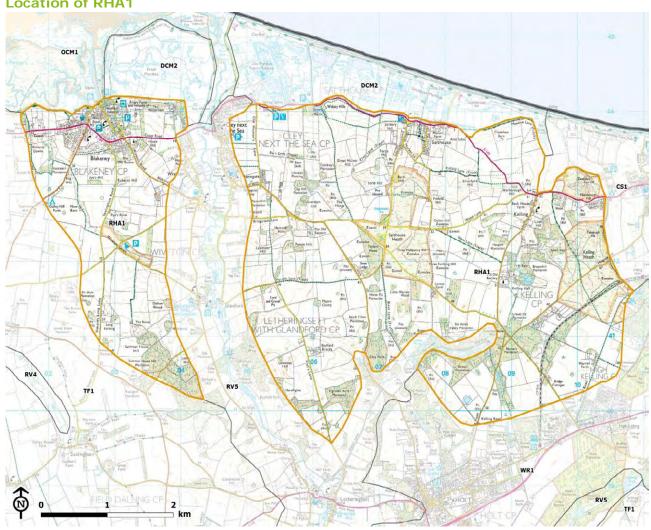
Valued features and qualities

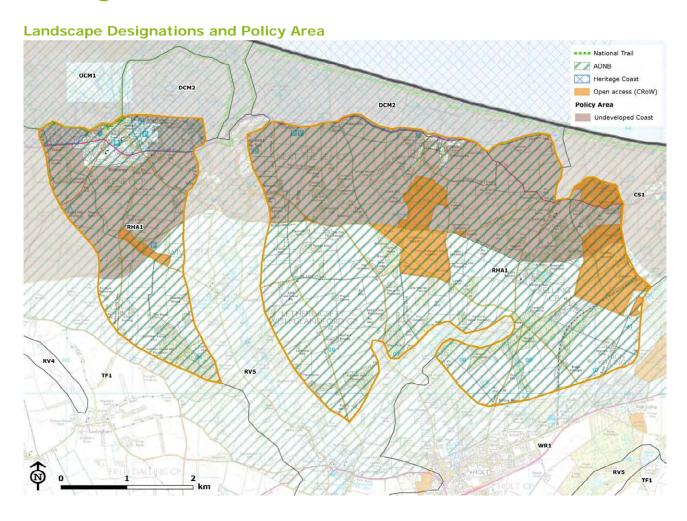
- The Blakeney Esker and other distinctive glacial landform features
- Strong sense of traditional rurality, tranquillity and remoteness, and dark skies
- Strong and distinctive links between land and sea
- Extensive heathlands are valued for their nature conservation and recreational interest
- Rich archaeological heritage and historic environment
- Distinctive skyline features
- Recreational opportunities

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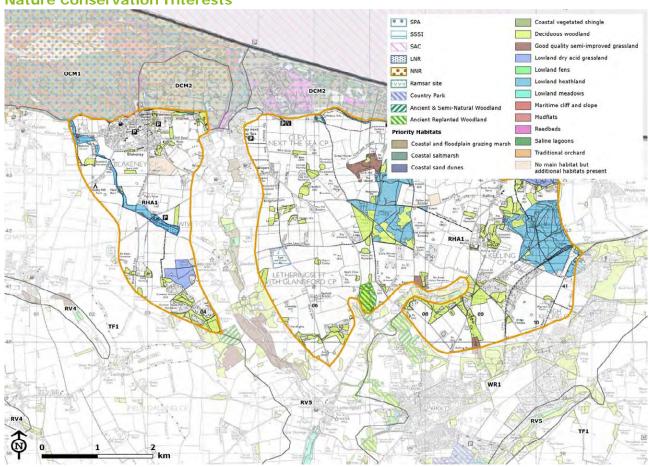
¹ Detailed information about landscape character and valued features is set out in the North Norfolk Landscape Character Asssessment (2018)

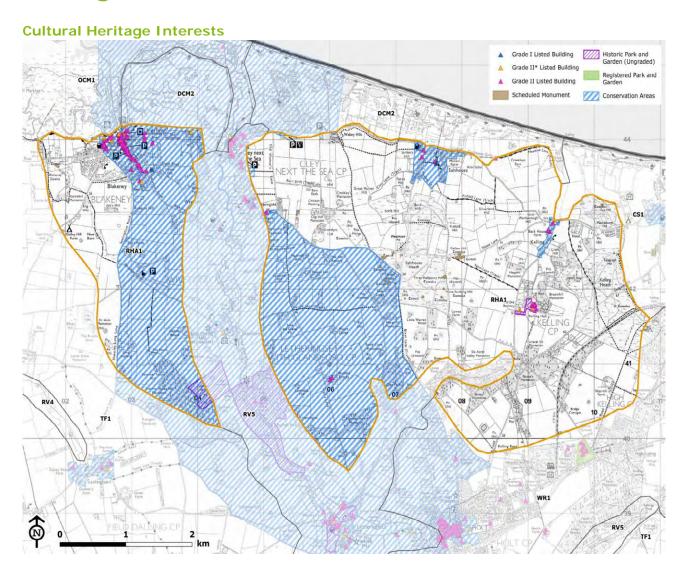
Location of RHA1





Nature Conservation Interests





Landscape Sensitivity Evaluation

Criteria Appraisal

The following table illustrates the appraisal of the Rolling Heath & Arable LCT against the sensitivity criteria which have been predetermined for the development types.

KEY	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity to the development type	Ţ	stron	utes do gly influ tivity in ion	uence	-	dev type	erion/ elopme e not licable	nt	×
Sensi Crite	itivity ria	Characteristics of t	he LCT	Indicators of higher/lower susceptibility and value for each development type								ae
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Susce	eptibilit	y Criteria										
Topog & sky	graphy lines	characterised by genelevated hinterland of marshes, with localist slopes such as the extelling Heath. Subtles sands and gravels are provide localised inticontribute to the varicharacter, shaping as Generally undevelops skylines formed by a heathland and woodle punctuated by histornotably church tower Cley and Weybourne. The varied landform of higher and lowers developments such a cables and cable relastorage schemes, AD according to the deglandform screening, historic landmark featundeveloped skyline.	down towards the coastal sed areas of steeper astern scarp slope of a small, gentle hillocks of and neighbouring hollows mate areas which station in landscape and enclosing views. The death of the de	1	1	1						
Lando	over	farming, coniferous s interspersed with mo	e farmland with some pig shelterbelts and clumps, ore naturalistic habitats, owland heaths at Kelling	_	_	_	_	Ţ	_	_	_	_

KEY	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity to the development type	Ţ	stron	utes do gly influ ivity in ion	ience	_	deve type	erion/ elopme e not licable	nt	×
Sensi Criter	tivity ia	Characteristics of t	he LCT			of high velopn			sceptib	oility ar	nd valu	ae
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		Muckleburgh hill, and woodland on the edg Cley Park (designated	wns, acid grassland at deciduous/mixed es of the heaths and at dancient woodland).									
		recover from the tem Areas of naturalistic lowland heathland, g	vity spectrum for the ment types except for where sensitivity is of landcover is able to approary laying phase. andcover, such as the									
Sense openn enclos	iess/	arable farmland area elevation and proxim a feeling of spacious views and large skies with areas of steeper hollows and presence clumps of trees, woo scrub, hedgerow tree	s. The varied landform, slopes, hillocks and of shelterbelts,	1	1	1	1	1	1	1	1	1
		The prevailing strong and relative lack of v screening/containme majority of the LCT in any new developmen	isual nt throughout the ncreases sensitivity to									
Scale (landformand) comport featur landsormant patter compl	onent es), cape en &	However, there is value shape, resulting in a scale landscape patter proximity to settlements.	, which reduces cale developments urbines and reservoirs. riation in both size and more intricate, small ern particularly in	_		-	0	*				_

ir	attributes generally increase sensitivity to the development type	Attributes generally decrease sensitivity to the development type	↓	stron	utes do gly influ ivity in ion	ience	_	deve type	erion/ elopme e not licable	nt	×
Sensitiv Criteria	- I	he LCT			_	er/lov nent ty	ver sus /pe	sceptib	oility a	nd valu	ae
			Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
	also introduces freques features which increases scale developments energy development and reservoirs. Over balance each other of developments (large farms and reservoirs)	I lanes and farmsteads and the sent human-scale as esensitivity to larger such as the larger wind as or larger solar farms rall, these scale factors but for the larger scale rewind turbines, solar. The varied scale of not influence sensitivity of the other as smaller scale elay stations, battery									
Sense of tranquill remoten rurality & level of human influence	road, a strong sense remoteness and trad in large expanses of heathland, with little and activity to count	of tranquillity, itional rurality prevails quiet farmland and human intervention eract this, which also rk skies. This increases	1	1	1	1	1	1	1	1	1
Time de historica continuit	within the LCT including the content of the types, including the arms of other types, including the arms (containing nounds), ancient we informal parkland an all of which display a and historical continuwhich occur frequent broadly balance out the remaining more that overall, sensitiv	intury agricultural, there is also a variety ding commons and umerous ancient burial addland, small areas of divernacular villages, a stronger time deptholity. These areas, alsy across the LCT, the lower time depth of modern farmland so ity is not strongly direction for any of the	_								

increa	utes generally se sensitivity to evelopment type	Attributes generally decrease sensitivity to the development type	↓	stron	utes do gly influ ivity in ion	ience	_	dev type	Criterion/ development type not applicable			
Sensitivity Criteria	Characteristics of t	he LCT			of high velopn			sceptib	oility a	nd valu	ue	
			Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs	
Value Criter	ia											
Presence of landscape designations and extent to which their special qualities could be affected	and much smaller con Blakeney are also win Coast. Any of the type under consideration potential to affect the qualities to some extundeveloped coastal remoteness, tranquil dark skies), and the visual links between result, the presence	in this study have the e AONB's defined special ent, in particular the character, sense of lity and wildness (and strong and distinctive land and sea. As a of these nationally creases sensitivity to all		1	1	1	1	1	1	1	1	
Other indicators of value	AONB and Heritage (which together incor LCT (see above). Representativeness: The majority of the L arable farmland, how lowland heaths are p important examples increase sensitivity loareas. Rarity: The extensive lowlar landscape features, v sensitivity locally in the	CT is relatively typical vever the extensive articularly notable and of this habitat, which will ocally in these heathland d heaths are rare which will increase	1 -	1		1	1	1	1 -	1	1	

ir	ncrease se	generally ensitivity to pment type	Attributes generally decrease sensitivity to the development type	1	stron	utes do gly influ ivity in ion	uence	_	dev type	erion/ elopme e not licable	nt	×
Sensitiv Criteria	-	naracteristics of t	he LCT			_	ner/lov	ver sus vpe	sceptik	oility a	nd valu	ue
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
	In accapance of the acc	griculture and associated and associ	to 20th century intensive ciated hedgerow th areas where been maintained. Ew/recent hedgerow and the Type contains act areas of lowland in reversion of farmland incouraged in other of relatively intact areas balance each other									_
	in Ho th Ko lis Va ex bo (F M	ne settlements of BI elling (Conservation sted buildings). In a alley Conservation A ktensive area of lan eyond the defined G RV5), and there are onuments dotted ac	& cultural heritage ocussed in and around akeney, Salthouse and a Areas and clusters of addition, the Glaven Area encompasses and dscape within this LCT, Glaven River Valley LCT numerous Scheduled cross the landscape, in arrial mounds (tumuli).	1	1	Î	1	1	1	1	1	1
	LC di Ho as LC a Pa as W	CT are primarily assisted areas of lowleath and Wiveton Descriptions of SSSIs, whilst Wiveton Reserve County Wildlife Site ark, in the south of an area of ancient till be increased to a evelopment within the south of the southold of the south of the south of the south of the south of the so	land heath (Kelling lowns are designated eton Downs is also a e). Salthouse Heath is e. Additionally, Cley the LCT, is designated woodland. Sensitivity	1	1	Î	1	1	1	1	Î	Î

KEY	increas	Attributes generally decrease sensitivity to velopment type Attributes generally decrease sensitivity the development type		↓	Attributes do not strongly influence sensitivity in either direction				Criterion/ development type not applicable			×
	Sensitivity Characteristics of the LCT Criteria		Indicators of higher/lower susceptibility and value for each development type									
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		on the heathlands, at the LCT, including a s Norfolk Coast Path at Blakeney. Blakeney is trips and seal watchin	ne of the District's Access Land, focused ad several PRoWs cross short section of the ong the coastline at a also a hub for boat and trips, and the two sites provide a notable	1	1	1	1	1	1	1	1	1
		Literary / artistic associations with this type.	famous literary/artistic	_	_	_	_	_	_	_	_	_

Overall sensitivity to different development types

The following table provides an overall sensitivity rating, and justification for that rating, in relation to the relevant development types, based on the LCT sensitivity evaluation table above. It should be emphasised that the overall rating represents the typical sensitivity across the entire LCT, reflecting the strategic nature of this study. Notable areas where sensitivity is higher or lower than typical are outlined within the table, however there may be more localised variations in sensitivity within this.

Development Type	Reason for judgement	Overall Sensitivity
Large scale wind turbines, (up to 80m hub height)	Although the gently rolling and undulating landform, relatively large landscape scale and typically regular landscape pattern of arable fields might reduce sensitivity to large scale wind turbines in some situations, in this case the open, exposed and strongly rural character, prominent and undeveloped skylines, high scenic quality and value of the landscape which is recognised through AONB designation (particularly its special qualities of undeveloped coastal character, important lowland heath habitats, strong sense of remoteness and tranquillity, dark skies and distinctive links between land and sea), ensure the highest level of sensitivity. Overall, typical sensitivity to this scale of turbine is considered to be high. In addition to the above, the Conservation Areas (Glaven Valley, Salthouse and Kelling), and their associated clusters of listed buildings, plus other isolated listed buildings such as those at Kelling Hall, have additional cultural heritage sensitivities.	High
Medium scale wind turbines, (up to 60m hub height)	Although the gently rolling and undulating landform, relatively large landscape scale and typically regular landscape pattern of arable fields might reduce sensitivity to medium scale wind turbines in some situations, in this case the open, exposed and strongly rural character, prominent and undeveloped skylines, high scenic quality and value of the landscape which is recognised through AONB designation (particularly its special qualities of undeveloped coastal character, important lowland heath habitats, strong sense of remoteness and tranquillity, dark skies and distinctive links between land and sea), ensure the highest level of sensitivity. Overall, typical sensitivity to this scale of turbine is considered to be high. In addition to the above, the Conservation Areas (Glaven Valley, Salthouse and Kelling), and their associated clusters of listed buildings, plus other isolated listed buildings such as those at Kelling Hall, have additional cultural heritage sensitivities.	High
Small scale wind turbines, (up to 30m hub height)	Although the gently rolling and undulating landform, relatively large landscape scale, typically regular landscape pattern of arable fields and areas of localised screening provided by landform and woodland/trees might reduce sensitivity to small scale wind turbines in some situations, this is counterbalanced by the open, exposed and strongly rural character, prominent and undeveloped skylines, high scenic quality and value of the landscape which is recognised through AONB designation (particularly its special qualities of undeveloped coastal character, important lowland heath habitats, strong sense of remoteness and tranquillity, dark skies and distinctive links between land and sea), which increase sensitivity. Overall, typical sensitivity to this scale of turbine is considered to be high. In addition to the above, the Conservation Areas (Glaven Valley, Salthouse and Kelling), and their associated clusters of listed buildings, plus other isolated listed buildings such as those at Kelling Hall, have additional cultural heritage sensitivities.	High

Field-scale solar PV development (above 10 hectares site area)	Although the gently rolling and undulating landform, relatively large landscape scale, typically regular landscape pattern of arable fields and areas of localised screening provided by landform and woodland/trees might reduce sensitivity to field-scale solar PV development in some situations, this is outweighed by the open, exposed and strongly rural character, with many areas of visually prominent slopes and undeveloped skylines, high scenic quality and value of the landscape which is recognised through AONB designation (particularly its special qualities of undeveloped coastal character, important lowland heath habitats, strong sense of remoteness and tranquillity, dark skies and distinctive links between land and sea), which all increase sensitivity. Therefore, the presence of PV panels could conflict with these undeveloped and naturalistic qualities of the AONB, and typical sensitivity to this form of development is considered to be high. See guidance for more information. In addition to the above, the Conservation Areas (Glaven Valley, Salthouse and Kelling), and their associated clusters of listed buildings, plus other isolated listed buildings such as those at Kelling Hall, have additional cultural heritage sensitivities.	High
Onshore cable routes for offshore wind farms (30m – 80m clearance)	The predominant landcover of arable fields reduces sensitivity to onshore cable routes, as this is able to recover more quickly from the temporary cable laying phase. However, this is outweighed by the presence of many visually prominent slopes and undeveloped skylines, the exposed and strongly rural character with long uninterrupted views, vernacular settlements, cultural heritage and nature conservation designations / naturalistic landcover (in particular the extensive and important lowland heathlands), and high scenic quality and value of the landscape which is recognised through AONB designation (particularly its special qualities of undeveloped coastal character, important lowland heath habitats, strong sense of remoteness and tranquillity, dark skies and distinctive links between land and sea), which all increase sensitivity. Therefore, cable laying could conflict with these undeveloped and naturalistic qualities of the AONB (for a temporary period), and typical sensitivity to this form of development is considered to be moderate-high. See guidance for more information. In addition to the above, the Conservation Areas (Glaven Valley, Salthouse and Kelling), and their associated clusters of listed buildings, plus other isolated listed buildings such as those at Kelling Hall, have additional cultural heritage sensitivities.	Moderate-High
Commercial battery storage schemes , Cable relay stations and sub-stations (for offshore wind farms) and Anaerobic digestion plants (typical size range 2.5 – 8 ha)	Although the gently rolling and undulating landform, relatively large landscape scale, typically regular landscape pattern of arable fields and areas of localised screening provided by landform and woodland/trees might reduce sensitivity to industrial type development in some situations, this is outweighed by the predominantly open, exposed and strongly rural character, with many areas of visually prominent slopes and undeveloped skylines, high scenic quality and value of the landscape which is recognised through AONB designation (particularly its special qualities of undeveloped coastal character, important lowland heath habitats, strong sense of remoteness and tranquillity, dark skies and distinctive links between land and sea), which all increase sensitivity. Therefore, the presence of industrial type developments could conflict with these undeveloped and naturalistic qualities of the AONB, and typical sensitivity to this form of development is considered to be high. See guidance for more information. In addition to the above, the Conservation Areas (Glaven Valley, Salthouse and Kelling), and their associated clusters of listed buildings, plus other isolated listed buildings such as those at Kelling Hall, have additional cultural heritage sensitivities.	High

Reservoirs (typical size range 2 – 5ha)

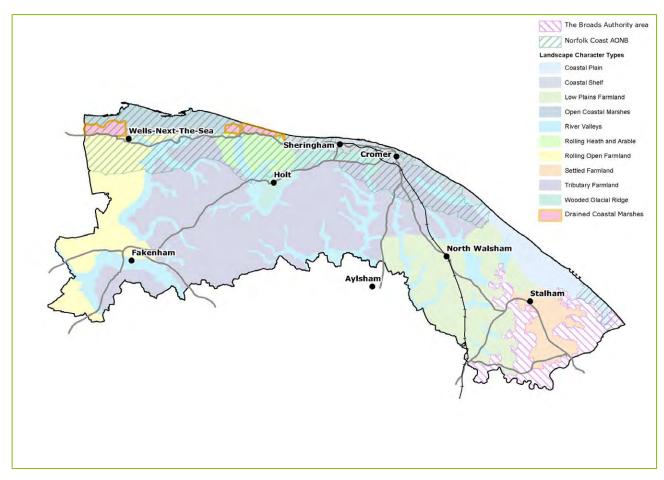
The gently rolling/undulating landform provides localised areas of natural bowls which could accommodate reservoirs with less land modelling. In addition, the relatively large landscape scale and typically regular landscape pattern of arable fields also reduce sensitivity to reservoir development. However, this is counterbalanced by the predominantly open, exposed and strongly rural character, with areas of visually prominent slopes and undeveloped skylines, and limited opportunities for localised screening, which increase sensitivity. The introduction of reservoirs is likely to adversely affect the nationally valued scenic qualities and natural beauty of the AONB (in particular its undeveloped coastal character, remoteness and tranquillity, important lowland heath habitats and strong and distinctive visual links between land and sea). Overall, typical sensitivity to this type of development is considered to be moderate-high.

Moderate-High

Localised areas of lower sensitivity include areas of lower lying land in natural bowls where less land modelling would be required, or in more enclosed areas where existing mature shelter belts and woodland blocks may afford greater visual screening and containment of reservoirs.

Localised areas of higher sensitivity relate to the most open, flat and exposed areas of farmland, particularly in closer proximity to the coast, and the heathlands. In addition to the above, the Conservation Areas (Glaven Valley, Salthouse and Kelling), and their associated clusters of listed buildings, plus other isolated listed buildings such as those at Kelling Hall, have additional cultural heritage sensitivities.





Baseline Landscape

Introduction to the Landscape Character Type

The Drained Coastal Marshes Type are areas of former Open Coastal Marsh (intertidal marsh) that have been drained and enclosed, forming a flat open landscape comprising some important grazing marsh habitat as well as sand dunes, pine woodland and arable farmland.

All parts of the Type fall within the Norfolk Coast AONB and North Norfolk's Undeveloped Coast policy area, and the majority of the Type also falls within the North Norfolk Heritage Coast.

Component Character Areas

There are two geographically distinct areas of Drained Coastal Marsh in North Norfolk:

DCM1 - Holkham Drained Marshes

DCM2 - Blakeney, Wiveton, Cley and Salthouse Drained Marshes

Key Characteristics¹

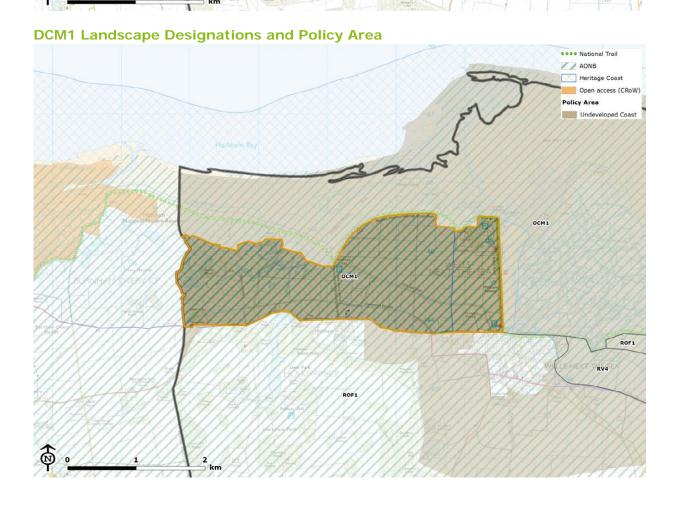
- A flat, open low lying landscape dominated by grazing marsh and drained farmland
- Enclosed by natural (sand dunes, shingle banks) or man-made (clay) banks which keep the sea out
- A dynamic and changing landscape
- A remote, peaceful landscape, but with some 'honeypots' of activity and built development
- Nature conservation interest, notably the freshwater marsh which is a haven for breeding birds
- Evidence of past land use including historic farmsteads and field patterns, salt pans, medieval fisheries and water mills
- · Access provided by tracks and footpaths, and occasional roads
- Large skies and long views

Valued features and qualities

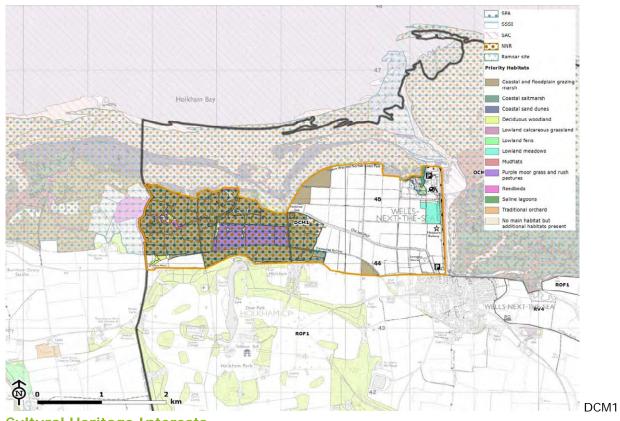
- Areas of coastal grazing marsh, reedbeds, rush pastures, saline lagoons and shingle banks of significant ecological value
- · The sense of openness, large skies, and quality of coastal light
- Relative absence of human settlement and remote, peaceful nature
- Historic features including remnant historic buildings, historic field patterns, salt pans, medieval fisheries and water mills
- The shingle ridge
- Recreational value

¹ Detailed information about landscape character and valued features is set out in the North Norfolk Landscape Character Asssessment (2018)

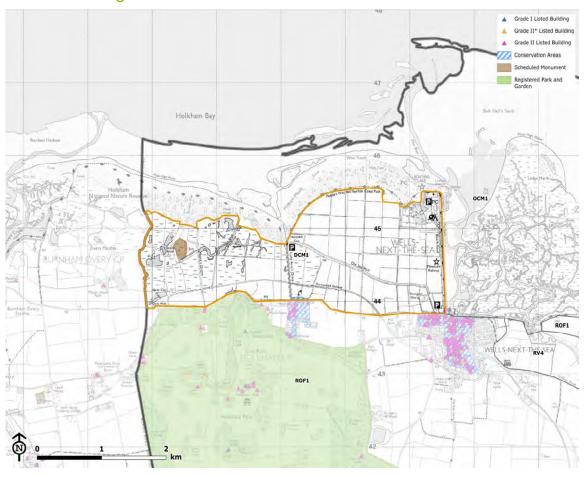
Holdstam Bay Holdstam Bay Holdstam Bay Burnstam Overy CP Burnstam

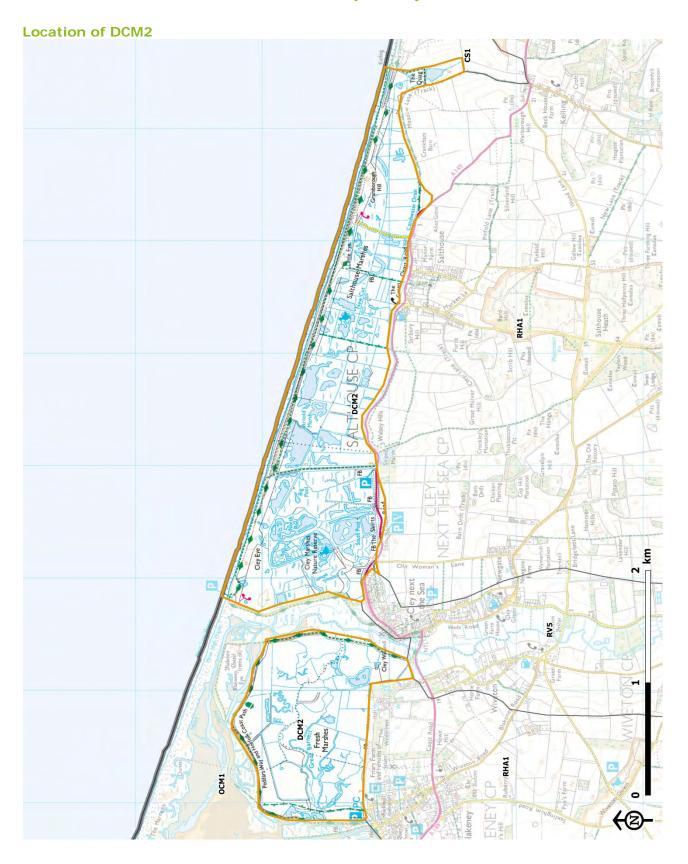


DCM1 Nature Conservation Interests

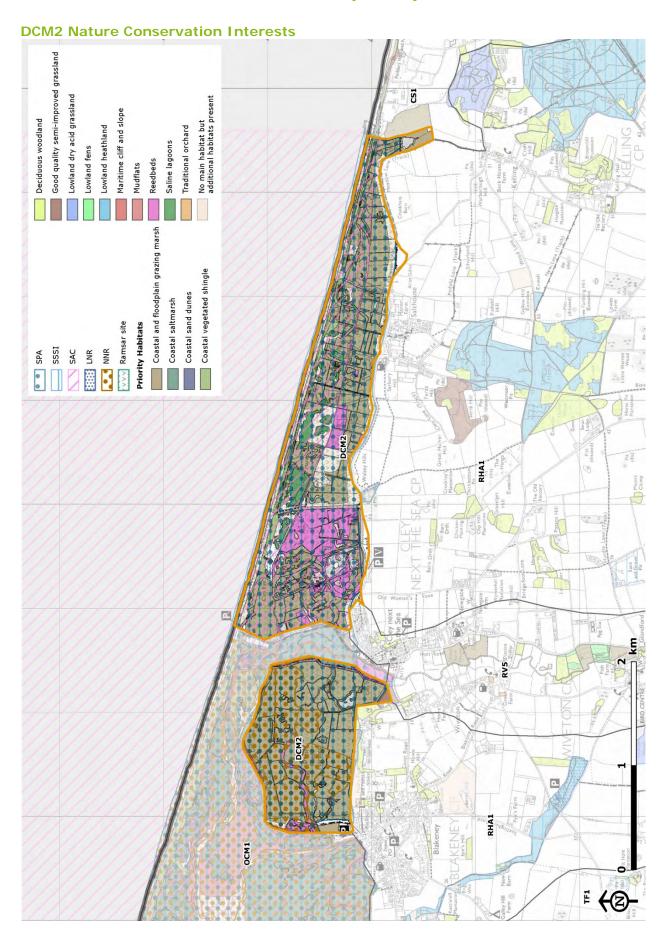


Cultural Heritage Interests

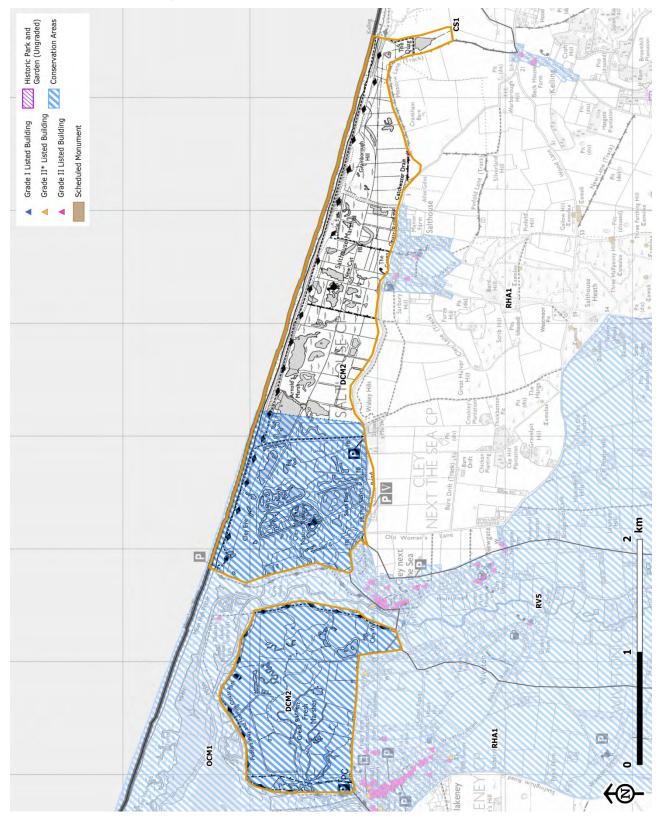








DCM2 Cultural Heritage Interests



Landscape Sensitivity Evaluation

Criteria Appraisal

The following table illustrates the appraisal of the Drained Coastal Marshes LCT against the sensitivity criteria which have been predetermined for the development types.

KEY	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity to the development type	<u></u>	stron	utes do gly influ ivity in ion	ience	-	Criterion/ development type not applicable			×
Sensi Criter	itivity ria	Characteristics of t	he LCT	Indicators of higher/lower susceptibility and value for each development type								
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Susce	eptibility	y Criteria										
Topog & skyl	graphy lines	with undeveloped sky	tly naturalistic landform ylines, which is intrinsic ne LCT. This increases elopment types.	1	1	1	1	介	1	1	1	1
Landc	over	Combination of naturalistic freshwater grazing marshes, saline lagoons, reedbeds and rush pastures (all of DCM2 and part of DCM1 – i.e. the majority of the LCT), which increases sensitivity to all development types, and arable / improved pasture (part of DCM1), which does not strongly influence sensitivity in either direction (except for onshore cable routes).			1	1	1	1	Î	1	1	1
Sense openn enclos	ness/	character due to the landform, low-lying vorticed of development/visual increases sensitivity types. Generally, the enclosure within the the coastal pine wood	regetation and absence al screening. This		1	1	1	1	1	1	1	1
Scale (landf and compo featur landso patter compl	onent res), cape rn &	scale, expansive land apparent simplicity o	I views create a large- Iscape. However, the f the landscape pattern at complexities in terms	1	1	1	_	*	1	1	1	1

KEY	increas	Attributes generally decrease sensitivity to velopment type Attributes generally decrease sensitivity to the development type		Attributes do not strongly influence sensitivity in either direction Attributes do not development type not applicable						nent	nt 💥	
Sensitivity Characteristics of the LCT Criteria		he LCT	Indicators of higher/lower susceptibility and value for each development type									
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		Whilst the expansive generally reduces set scale developments, this is counterbalance complex landscape p creeks and lagoons in	nsitivity to the larger such as wind turbines, ed by the frequently attern where marsh,								, -	
remoti ruralit level of huma influer Undev	uillity/ teness/ ty & of n	prevails in most part DCM2 which is mostl reserves by the Norfo is greater human act parts of DCM1, include holiday park and pub. Wells-next-the-Sea, Centre and car park close to Holkham beat tranquillity, remotent increases sensitivity types. These characteristics	and the Lookout Visitor at Lady Ann's Drive ach. Overall, the level of ess and human influence to all development	1	1	1	1	1	1	1	1	1
Time histor contin		of unimproved marin century curvilinear d the historic earthwor	depth and historic tential for preserved nee. This includes areas e marsh, pre-18 th rained enclosures and k (Iron Age fort) northich increase sensitivity	1	1	1	1	1	1	1	1	1
Value Criteria												
lands	nations xtent	Coast AONB, and the also falls within the N Coast. Any of the typ	fall within the Norfolk majority of the Type Jorth Norfolk Heritage les of development n this study have the	1	1	1	1	1	1	1	1	1

i	increas	butes generally ease sensitivity to decrease sensitivity to the development type		Attributes do not strongly influence sensitivity in either direction Attributes do not development type not applicable					nent	×		
Sensitivity Criteria		Characteristics of the LCT		Indicators of higher/lower susceptibility and value for each development type								
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
their sp qualitie could be affected	es e	particular the undeversense of remoteness wildness (and dark stand distinctive visual sea. As a result, the nationally valued land	ies to some extent, in eloped coastal character, , tranquillity and kies), and the strong links between land and presence of these dscapes increases is of development within								·	
Other indicato value	ors of	AONB and Heritage C	ty is recognised through Coast designations, porate the whole of this	1	1	1	1	1	1	1	1	1
		Representativeness: The drained coastal r particularly importan example of this lands	t and representative	1	1	1	1	1	1	1	1	Î
		Rarity: The mosaic of habita LCT is nationally rare Intactness:	•	1	1	1	1	1	1	1	1	Î
		intactness,and parts 20 th century agricultu (enclosures in DCM1	enlarged and Parts are also subject mic natural change, on of freshwater	_	_	_	_	_	_	_	_	
		Nature conservation interests The majority of the latexception being the subject to a range of	andscape (the only easterly part of DCM1) is	1	1	1	1	1	1	1	1	1

KEY	increas	Attributes generally decrease sensitivity to the development type		1	Attributes do not strongly influence sensitivity in either direction Attributes do not development type not applicable						nent	×
Sensitivity Characteristics of the LCT Criteria		Indicators of higher/lower susceptibility and value for each development type										
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		_	conservation ng the importance and species: Ramsar; SPA;									
		LCT, reflecting the la intervention and sett Valley Conservation mouth of the River G	lement. The Glaven	_	_			_	_	_	_	_
		along the boundary of also important for a recreational activities	th National Trail runs of the LCT. The area is range of other s, notably bird watching rouse Marshes Nature	1	1	1	1	1	1	1	1	1
		Literary / artistic ass There are no known associations for the I Marshes landscape.	famous literary/artistic	_	_	_	_	_	_	_	_	_

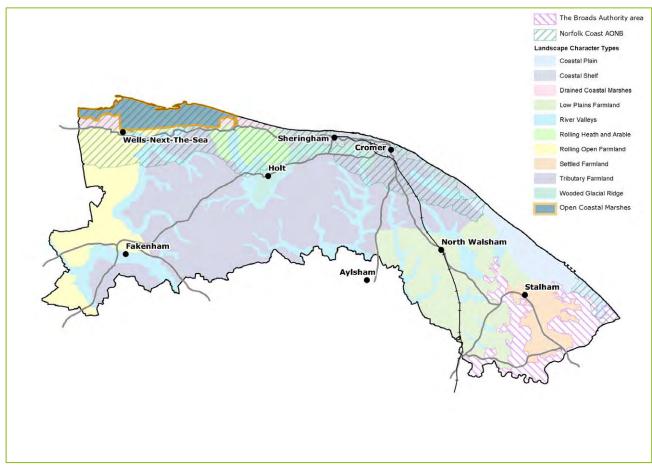
Overall sensitivity to different development types

The following table provides an overall sensitivity rating, and justification for that rating, in relation to the relevant development types, based on the LCT sensitivity evaluation table above. It should be emphasised that the overall rating represents the typical sensitivity across the entire LCT, reflecting the strategic nature of this study. Notable areas where sensitivity is higher or lower than typical are outlined within the table, however there may be more localised variations in sensitivity within this.

Development Type	Reason for judgement	Overall Sensitivity
Large scale wind turbines, (up to 80m hub height)	This predominantly naturalistic, open and exposed landscape, with undeveloped skylines, strong time depth and outstanding landscape and nature conservation value, is considered highly sensitive to large scale wind turbines. This scale of turbine sited anywhere in the LCT would be widely visible in long coastal views, and views inland, adversely affecting these inherent landscape characteristics and qualities, as well as the nationally valued scenic qualities and natural beauty of the AONB (in particular its undeveloped coastal character, remoteness and tranquillity, exceptionally important coastal habitats and strong and distinctive visual links between land and sea). Overall, typical sensitivity to large scale wind turbines throughout the LCT is considered to be high.	High
Medium scale wind turbines, (up to 60m hub height)	This predominantly naturalistic, open and exposed landscape, with undeveloped skylines, strong time depth and outstanding landscape and nature conservation value, is considered highly sensitive to medium scale wind turbines. This scale of turbine sited anywhere in the LCT would be widely visible in long coastal views, and views inland, adversely affecting these inherent landscape characteristics and qualities, as well as the nationally valued scenic qualities and natural beauty of the AONB (in particular its undeveloped coastal character, remoteness and tranquillity, exceptionally important coastal habitats and strong and distinctive visual links between land and sea). Overall, typical sensitivity to medium scale wind turbines throughout the LCT is considered to be high.	High
Small scale wind turbines, (up to 30m hub height)	This predominantly naturalistic, open and exposed landscape, with undeveloped skylines, strong time depth and outstanding landscape and nature conservation value, is considered highly sensitive to small scale wind turbines. This scale of turbine sited anywhere in the LCT would be visible in long coastal views, and views inland, adversely affecting these inherent landscape characteristics and qualities, as well as the nationally valued scenic qualities and natural beauty of the AONB (in particular its undeveloped coastal character, remoteness and tranquillity, exceptionally important coastal habitats and strong and distinctive visual links between land and sea). Overall, typical sensitivity to small scale wind turbines throughout the LCT is considered to be high.	High
Field-scale solar PV development (above 10 hectares site area)	Whilst the generally flat landform could reduce sensitivity to low-lying field-scale solar PV development, this conceals significant complexities of landform in large areas of the LCT, in terms of the naturalistic habitat mosaic, interaction and subtle topographical variations of marsh, creeks and lagoons, which increases sensitivity. In addition, the predominantly naturalistic landcover, open and exposed landscape, with long uninterrupted views over the open coastal marsh, including from higher coastal vantage points, general absence of screening elements, strong time depth and the broad range of valued landscape features, in addition to AONB and Heritage Coast designation, all increase sensitivity. This form of development sited anywhere in the LCT is likely to adversely affect the nationally valued scenic qualities and natural beauty of the AONB	High
	(in particular its undeveloped coastal character, remoteness and tranquillity, exceptionally important coastal habitats and strong and distinctive visual links between land and sea). Overall, typical sensitivity to field-scale solar PV development throughout the LCT is considered to be high.	

Development Type	Reason for judgement	Overall Sensitivity
Onshore cable routes for offshore wind farms (30m-80m clearance)	The flat yet complex landform, predominantly naturalistic landcover mosaic, open and exposed landscape with few screening/filtering features, long uninterrupted views over the open coastal marsh, including from higher coastal vantage points, strong time depth and the broad range of valued landscape features, in addition to AONB and Heritage Coast designation, all increase sensitivity to onshore cable routes. The introduction of onshore cable routes through the LCT is likely to adversely affect the nationally valued scenic qualities and natural beauty of the AONB (in particular its undeveloped coastal character, remoteness and tranquillity, exceptionally important coastal habitats and strong and distinctive visual links between land and sea). Localised areas of lower sensitivity are restricted to the modern arable and improved pasture in the eastern part of DCM1, as this landcover is able to recover more quickly from the temporary cable laying phase. However, overall, typical sensitivity to this form of development throughout the LCT is considered to be high.	High
Commercial battery storage schemes, Cable relay stations and sub-stations (for offshore wind farms) and Anaerobic digestion plants (typical size range 2.5 – 8 ha)	This predominantly naturalistic, open and exposed landscape, with undeveloped skylines, strong time depth and outstanding landscape and nature conservation value, is considered uniformly highly sensitive to industrial type developments. Such developments sited anywhere in the LCT would be visible in long coastal views and views inland, including from higher vantage points, adversely affecting these inherent landscape characteristics and qualities, as well as the nationally valued scenic qualities and natural beauty of the AONB (in particular its undeveloped coastal character, remoteness and tranquillity, exceptionally important coastal habitats and strong and distinctive visual links between land and sea). Overall, typical sensitivity to industrial type developments throughout the LCT is considered to be high.	High
Reservoirs (typical size range 2 – 5ha)	The flat yet complex landform, predominantly naturalistic landcover mosaic, open and exposed landscape with few features to help screen reservoir embankments, long uninterrupted views over the open coastal marsh, including from higher coastal vantage points, strong time depth and the broad range of valued landscape features, in addition to AONB and Heritage Coast designation, all increase sensitivity to reservoirs. The introduction of reservoirs is likely to adversely affect the nationally valued scenic qualities and natural beauty of the AONB (in particular its undeveloped coastal character, remoteness and tranquillity, exceptionally important coastal habitats and strong and distinctive visual links between land and sea). Overall, typical sensitivity to this form of development throughout the LCT is considered to be high.	High





Baseline Landscape

Introduction to the Landscape Character Type

The Open Coastal Marshes Type is characterised by an open, low-lying and naturally dynamic coastal barrier beach system with one of the largest single areas of undrained saltmarsh in Europe. Extensive areas of saltmarsh, with characteristic creek patterns, have formed behind a protective barrier of sand and shingle bars, which in some areas have led to the formation of significant areas of dune habitat. The marine and coastal habitats form a complex mosaic of shallow seas, intertidal sand and mud flats, coastal vegetated shingle, saline lagoons, salt marsh and creeks, largely devoid of any settlement and dominated by natural dynamic processes.

All of this landscape carries the highest designations in relation to its landscape (Norfolk Coast AONB, North Norfolk Heritage Coast) and ecological value (SPA, SAC, Ramsar, SSSI, NNR). This landscape is also wholly within North Norfolk's Undeveloped Coast policy area.

Component Character Areas

There is one area of Open Coastal Marsh in North Norfolk, in the north-west of the District:

OCM1 - Wells to Morston Marshes

Key Characteristics¹

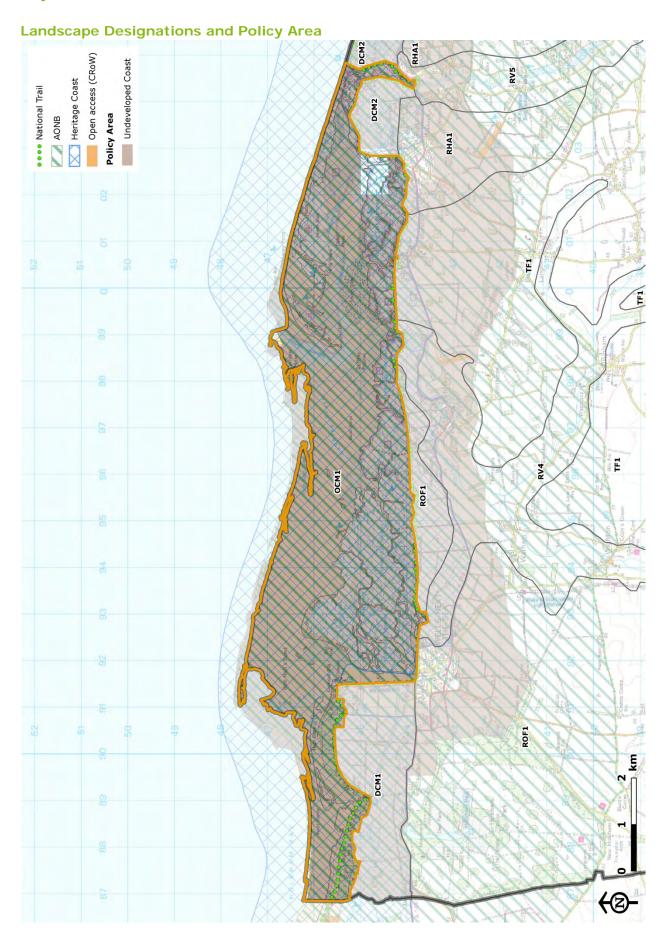
- Flat, open landscape of saltmarshes, creeks, sand bars and mudflats
- A constantly changing natural landscape
- Holkham Meals sand dune system and pine woods
- Little human interference and absence of settlement
- Great nature conservation interest and a haven for breeding birds
- Boats are a feature, their masts prominent in the flat landscape
- · Absence of roads but many footpaths and trackways
- Long, uninterrupted views

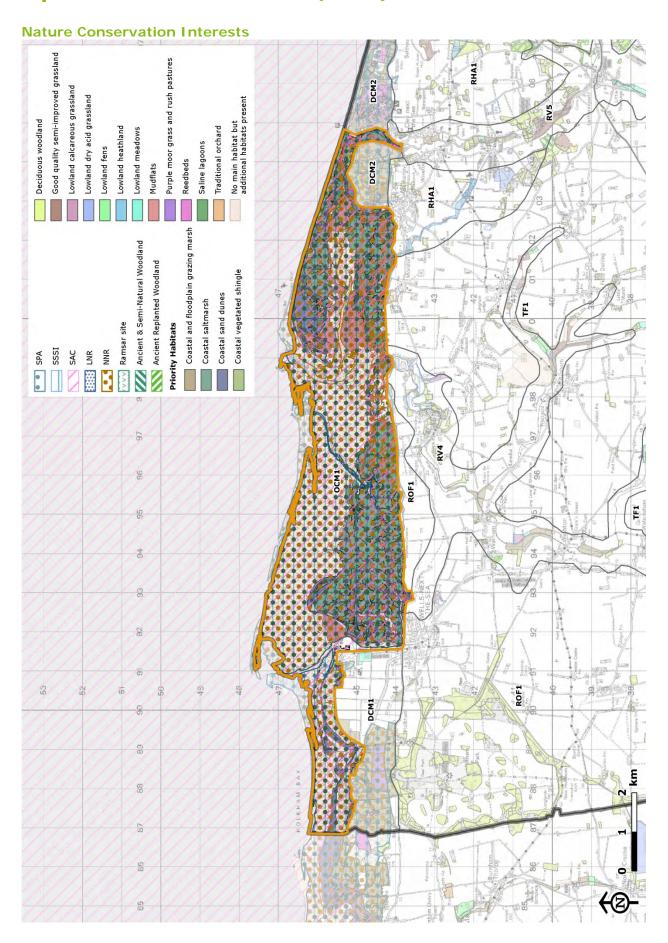
Valued features and qualities

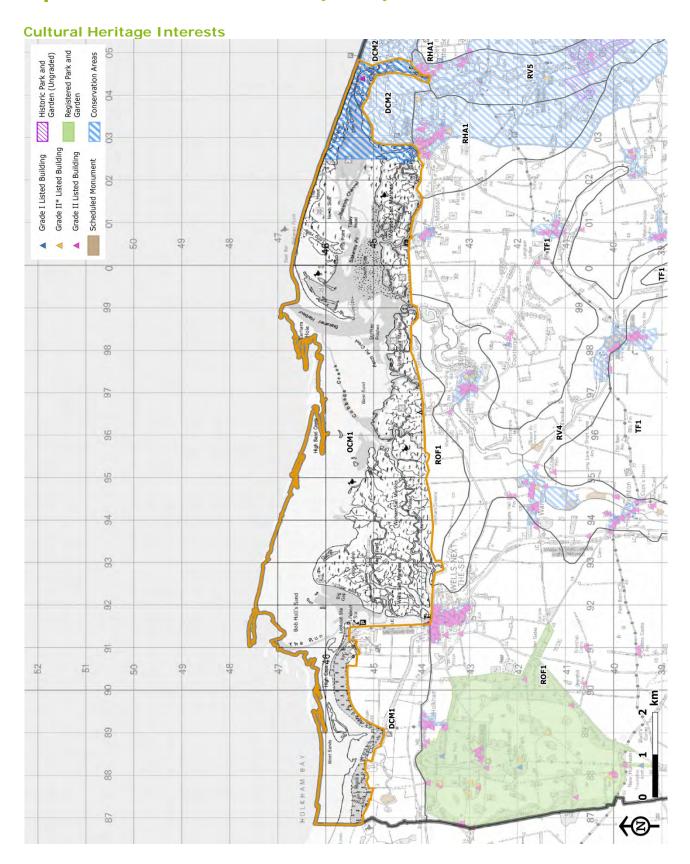
- Natural character and nature conservation value
- Relative absence of human settlement and intervention
- The sense of openness, large skies, and quality of coastal light
- Recreational value

¹ Detailed information about landscape character and valued features is set out in the North Norfolk Landscape Character Asssessment (2018)









Landscape Sensitivity Evaluation

Criteria Appraisal

The following table illustrates the appraisal of the Open Coastal Marshes LCT against the sensitivity criteria which have been predetermined for the development types.

KEY	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity to the development type	1	strong	utes do gly influ ivity in ion	ience	_	de ty	riterion/ evelopm pe not oplicable	nent	×
Sensi Criter	-	Characteristics of t	he LCT		ators o	_			sceptik	oility a	nd valu	ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Susce	eptibility	pility Criteria										
Topog & skyl	raphy lines	with undeveloped sky	lex naturalistic landform ylines, which is intrinsic ne LCT. This increases slopment types.	1	1	1	1	1	1	1	1	1
Lando	over	Highly naturalistic co mudflats, sand bars a increases sensitivity types.		1	1	1	1	1	Î	1	1	1
Sense openn enclos	ness/	character due to the	regetation and absence al screening. This	1	1	1	1	1	1	1	1	1
Scale (landf and compo featur landso patter compl	onent es), cape n &	scale, expansive land apparent simplicity o hides some significar mosaic of coastal hab Whilst the expansive generally reduces set	I views create a large- lscape. However, the f the landscape pattern at complexities in the bitats. landscape scale instituity to the larger such as wind turbines, ed by the frequently attern where marsh,	1	1	1		*	1	1	1	1

Sense of tranquillity/ remoteness/ rurality & level of human influence Undeveloped Coast policy area	A strong sense of tranquillity, remoteness and wildness, which is intrinsic to the character of the LCT and increases sensitivity to all development types. Minimal human intervention and no settlement present. These characteristics are recognised and reinforced by the Undeveloped Coast policy area.	1	1	1	1	1	1	1	1	1
Time depth / historical continuity	Historic landscape types within the LCT are dominated by unimproved intertidal and marine marsh, which display a strong sense of time depth and historic qualities, plus the potential for preserved archaeological evidence. This increases sensitivity to all forms of development.	1	1	1	1	1	1	1	1	1
Value Criteria	3									
Presence of landscape designations and extent to which their special qualities could be affected	The LCT lies wholly within the designated AONB and the defined Heritage Coast. Any of the types of development under consideration in this study have the potential to adversely affect the AONB's defined special qualities to some extent, in particular the undeveloped coastal character, sense of remoteness, tranquillity and wildness (and dark skies), and the strong and distinctive visual links between land and sea. As a result, the presence of these nationally valued landscapes increases sensitivity to all forms of development within or affecting these areas.	1	1	1	1	1	1	1	1	1
Other indicators of value	High scenic quality: The high scenic quality is recognised through AONB and Heritage Coast designations, which incorporate the whole of this LCT (see above). Representativeness: The open coastal marshes are a particularly important and representative example of this	1	1	1	1	1	1	1	1	1
	Important and representative example of this landscape type. Rarity: The mosaic of habitats present within the LCT is nationally rare.									

Intactness: The landscape displays a high degree of intactness, albeit within the context of constant and dynamic natural change. Nature conservation and cultural heritage interests Landscape is subject to a very high number of nature conservation designations, reflecting the importance and rarity of habitats and species: Ramsar; SPA; SAC; NNR; SSSI. Heritage assets are largely absent, reflecting the absence of human intervention and settlement. The Glaven Valley Conservation Area extends to the mouth of the River Glaven, within the LCT. Recreational value The Norfolk Coast Path National Trail runs along the southern boundary of the LCT. The area is also important for a range of other recreational activities such as bird watching, boating and organised seal watching trips. Literary / artistic associations There are no known famous literary/artistic associations for the Open Coastal Marshes landscape.

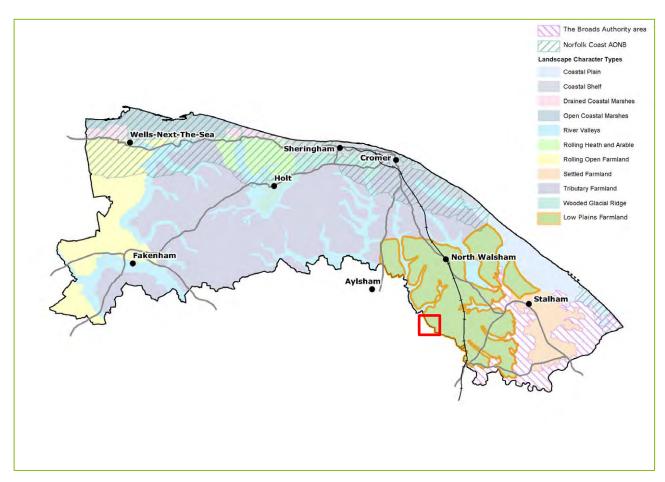
Overall sensitivity to different development types

The following table provides an overall sensitivity rating, and justification for that rating, in relation to the relevant development types, based on the LCT sensitivity evaluation table above. It should be emphasised that the overall rating represents the typical sensitivity across the entire LCT, reflecting the strategic nature of this study. Notable areas where sensitivity is higher or lower than typical are outlined within the table, however there may be more localised variations in sensitivity within this.

Development Type	Reason for judgement	Overall Sensitivity
Large scale wind turbines, (up to 80m hub height)	This highly naturalistic, open and exposed landscape, with undeveloped skylines, strong time depth and outstanding landscape and nature conservation value, is considered uniformly highly sensitive to large scale wind turbines. This scale of turbine sited anywhere in the LCT would be widely visible in long coastal views, and views inland, adversely affecting these inherent landscape characteristics and qualities, as well as the nationally valued scenic qualities and natural beauty of the AONB (in particular its undeveloped coastal character, remoteness and tranquillity, exceptionally important coastal habitats and strong and distinctive visual links between land and sea). Overall, typical sensitivity to large scale wind turbines throughout the LCT is considered to be high.	High
Medium scale wind turbines, (up to 60m hub height)	This highly naturalistic, open and exposed landscape, with undeveloped skylines, strong time depth and outstanding landscape and nature conservation value, is considered uniformly highly sensitive to medium scale wind turbines. This scale of turbine sited anywhere in the LCT would be widely visible in long coastal views, and views inland, adversely affecting these inherent landscape characteristics and qualities, as well as the nationally valued scenic qualities and natural beauty of the AONB (in particular its undeveloped coastal character, remoteness and tranquillity, exceptionally important coastal habitats and strong and distinctive visual links between land and sea). Overall, typical sensitivity to medium scale wind turbines throughout the LCT is considered to be high.	High
Small scale wind turbines, (up to 30m hub height)	This highly naturalistic, open and exposed landscape, with undeveloped skylines, strong time depth and outstanding landscape and nature conservation value, is considered uniformly highly sensitive to small scale wind turbines. This scale of turbine sited anywhere in the LCT would be visible in long coastal views, and views inland, adversely affecting these inherent landscape characteristics and qualities, as well as the nationally valued scenic qualities and natural beauty of the AONB (in particular its undeveloped coastal character, remoteness and tranquillity, exceptionally important coastal habitats and strong and distinctive visual links between land and sea). Overall, typical sensitivity to small scale wind turbines throughout the LCT is considered to be high.	High
Field-scale solar PV development (above 10 hectares site area)	Whilst the generally flat landform could reduce sensitivity to low-lying field-scale solar PV development, this conceals significant complexities of landform in terms of the naturalistic habitat mosaic, interaction and subtle topographical variations of marsh, creeks, mud flats and dune systems, which increases sensitivity. In addition, the highly naturalistic landcover, open and exposed landscape, with long uninterrupted views over the open coastal marsh, including from higher coastal vantage points, general absence of screening elements, strong time depth and the broad range of valued landscape features, in addition to AONB and Heritage Coast designation, all increase sensitivity.	High
	This form of development sited anywhere in the LCT is likely to adversely affect the nationally valued scenic qualities and natural beauty of the AONB (in particular its undeveloped coastal character, remoteness and tranquillity, exceptionally important coastal habitats and strong and distinctive visual links between land and sea). Overall, typical sensitivity to field-scale solar PV development throughout the LCT is considered to be high.	

Development Type	Reason for judgement	Overall Sensitivity
Onshore cable routes for offshore wind farms (30m – 80m clearance)	The flat yet complex landform, highly naturalistic landcover mosaic, open and exposed landscape with no screening/filtering features, long uninterrupted views over the open coastal marsh, including from higher coastal vantage points, strong time depth and the broad range of valued landscape features, in addition to AONB and Heritage Coast designation, all increase sensitivity to onshore cable routes. The introduction of onshore cable routes through the LCT is likely to adversely affect the nationally valued scenic qualities and natural beauty of the AONB (in particular its undeveloped coastal character, remoteness and tranquillity, exceptionally important coastal habitats and strong and distinctive visual links between land and sea). Overall, typical sensitivity to this form of development throughout the LCT is considered to be high.	High
Commercial battery storage schemes, Cable relay stations and sub-stations (for offshore wind farms) and Anaerobic digestion plants (typical size range 2.5 – 8 ha)	This highly naturalistic, open and exposed landscape, with undeveloped skylines, strong time depth and outstanding landscape and nature conservation value, is considered uniformly highly sensitive to industrial type developments. Such developments sited anywhere in the LCT would be visible in long coastal views and views inland, including from higher vantage points, adversely affecting these inherent landscape characteristics and qualities, as well as the nationally valued scenic qualities and natural beauty of the AONB (in particular its undeveloped coastal character, remoteness and tranquillity, exceptionally important coastal habitats and strong and distinctive visual links between land and sea). Overall, typical sensitivity to industrial type developments throughout the LCT is considered to be high.	High
Reservoirs (typical size range 2 – 5ha)	The flat yet complex landform, highly naturalistic landcover mosaic, open and exposed landscape with few features to help screen reservoir embankments, long uninterrupted views over the open coastal marsh, including from higher coastal vantage points, strong time depth and the broad range of valued landscape features, in addition to AONB and Heritage Coast designation, all increase sensitivity to reservoirs. The introduction of reservoirs is likely to adversely affect the nationally valued scenic qualities and natural beauty of the AONB (in particular its undeveloped coastal character, remoteness and tranquillity, exceptionally important coastal habitats and strong and distinctive visual links between land and sea). Overall, typical sensitivity to this form of development throughout the LCT is considered to be high.	High

Appendix 2 – Landscape Sensitivity Assessment Profiles for Airfield Sites





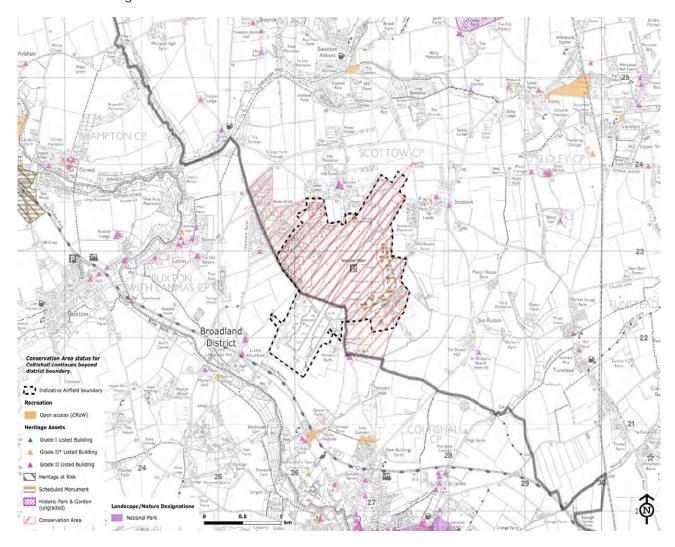
Baseline Landscape

Introduction to the Airfield

In common with many of the District's airfields, RAF Coltishall is a former RAF World War 2 airfield which became operational in 1940 as fighter airfield. After the war it continued as a MoD airfield, becoming exclusively a Jaguar station from1974. Coltishall eventually became the last surviving operational RAF airfield involved in the Battle of Britain other than RAF Northolt, eventually closing in 2006. It has since seen conversion of its military buildings to use as a prison (HMP Bure) and Scottow Enterprise Park, as well as the construction of a large 50MW solar farm.

The airfield is located in an area of Lowland Plains Farmland LCT on the District boundary, and is characterised by a combination of farmland, grassland, former runways/ tracks/ hardstandings and buildings (the site boundary excludes the prison and residential areas). The surrounding landscape is dominated by flat or gently undulating open farmland close to the Bure Valley.

The airfield lies outside any landscape designations, although the whole site is designated as a Conservation Area because of its historical and architectural interest. A visible remnant of a Second World War revetment together with one of the two sets of 1950s blast walls are now a Scheduled Monument.



Key Characteristics of the Airfield¹

- An extensive area of flat land at around 18m AOD. The surrounding land is of a similar elevation (slightly higher to the north, slightly lower to the south) with no notable vantage points overlooking the airfield.
- The original runway remains in place, now surrounded by a large scale solar farm with important retained grassland.
- Edges are dominated by rough grass which hosts a local skylark population and former trackways/ areas of hardstanding.
- An industrial park lies between the former runway and HMP Bure.
- The site is generally very open in character although there are some hedgerows and tree belts on the edges of the site.
- The whole site is designated as a Conservation Area because of its historical and architectural interest.

Valued features and qualities of the Airfield

- Recognised historic interest as a former RAF WW2 airfield and the only Battle of Britain station in the UK to have remained in continuous use until 2006.
- Scheduled Ancient Monument Blast Walls and 'Spitfire Pens'.

-

¹ Detailed information about landscape character and valued features of the wider LPF LCT is set out in the North Norfolk Landscape Character Assessment (2018)

Landscape Sensitivity Evaluation

Criteria Appraisal

The following table illustrates the appraisal of Coltishall Airfield against the sensitivity criteria which have been predetermined for the development types.

KEY	increase	es generally e sensitivity to elopment type	Attributes generally decrease sensitivity to the development type	Ţ	strono	utes do gly influ tivity in ion	ience	_	d ty	riterion/ evelopm pe not oplicable	nent	×
Sensi Crite	itivity ria	Characteristics of t	he airfield			of high velopn			scepti	oility aı	nd valu	ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Susce	eptibilit	y Criteria										
Topog & sky	graphy lines	the site. To the north while to the south it Due to the flatness of hugely prominent, but development (including water tower) or solar the airfield. A church north of the airfield in the wife water tower whilst the flat, unifor reduces sensitivity to presence of church to landscape increases neutral influence on turbines. The flat lar sensitivity to field-sc developments and or whilst increasing sen the flat landform ball	of the site skyline are at characterised by builting the control tower and panels associated with tower at Scottow to the salocal landmark. In landform generally wind turbines, the owers in the surrounding sensitivity. Overall sensitivity to wind adform reduces ale solar PV ashore cable routes, sitivity to reservoirs. ances out the generally in respect of sensitivity.				↓	1			_	1
Lando	cover		panels, grassland and I standings (roads/tracks	1	1	Î	1	1	Ţ	Î	Î	1
Sense openr enclos	ness/	A generally open cha enclosure and screer certain directions by belts surrounding the	ning is provided from hedgerows and shelter	1	1	1	_	_	_	_	_	

KEY	increase	es generally e sensitivity to elopment type	Attributes generally decrease sensitivity to the development type	Ţ	strong	utes do gly influ ivity in ion	ience	_	de ty	riterion/ evelopm pe not oplicable	nent	×
Sens Crite	itivity ria	Characteristics of t	he airfield			of high velopn			ceptil	oility ar	nd valu	иe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		help screen lower lever results in a neutral ethe lower lying develorerases sensitivity cannot be screened belts.	ffect on sensitivity to opments, and turbines which					J		U V	`_	_
•	form & onent res), cape rn &	The airfield landscap generally reduces se development types.	=	1	1	1	1	*	1	1	1	Ţ
	uillity/ teness/ ty & of n	The airfield is develo particularly remote o indicating a reduced this criterion.		1	1	1	1	1	1	1	1	1
Time histor contir			t, due to the limited	1	1	1	1	1	1	Ţ	1	Ţ
Value	e Criteria	a										
landso design and e to wh	nations extent ich special ies be	to any landscape des nearest such designa Broads which is just Landscape designatio	tion being the Norfolk under 2km away. ons have no influence on evelopment types except nes which could	1	1	1	1	1	1	1	1	1

increas	tes generally le sensitivity to velopment type	Attributes generally decrease sensitivity to the development type	↓	strono	utes do gly influ ivity in ion	ience	_	de ty	evelopm pe not	nent	×
Sensitivity Criteria	Characteristics of t	he airfield			_	er/lov nent ty	type not applicable www.applicable bwer susceptibility and valu				
			Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Other indicators of value	notable scenic quality Representativeness: The majority of the a farm, although the a important example of	airfield is now a solar	1	1	1	1	1	1	1	1	1
Other indicators of value	However, Coltishall is Britain station in the in continuous use as	2 airfields are not rare. s the only Battle of UK to have remained an operational fighter o is rare and significant	1	1	1	1	1	Î	1	1	1
	has been regularly n both as part of the c airfield from former	solar farm and business	1	1	1	1	1	1	1	Î	1

incre	outes generally ase sensitivity to levelopment type	Attributes generally decrease sensitivity to the development type	↓	strono	utes do gly influ tivity in ion	ience	-	de ty	riterion/ evelopm pe not oplicable	nent	×
Sensitivity Criteria	Characteristics of the	ne airfield			of high velopn			sceptik	oility ar	nd valu	ae
			Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Other indicators o value	There is considerable interest – the whole s	cultural heritage site is a Conservation o includes a Scheduled	1	1	1	1	1	1	1	1	1
	There are no nature of designations within the landscape sensitivity criterion (although it airfield's grassland is local skylark population. Recreational value:	ne site, reducing in relation to this is recognised that the important habitat for	1	Ţ	1	Î	1	1	1	1	Ţ
		•	1	1	Î	1	1	1	1	1	1
	Literary / artistic asso No known famous lite associations.		_	_	_	_	_	_	_	_	_

Overall sensitivity to different development types

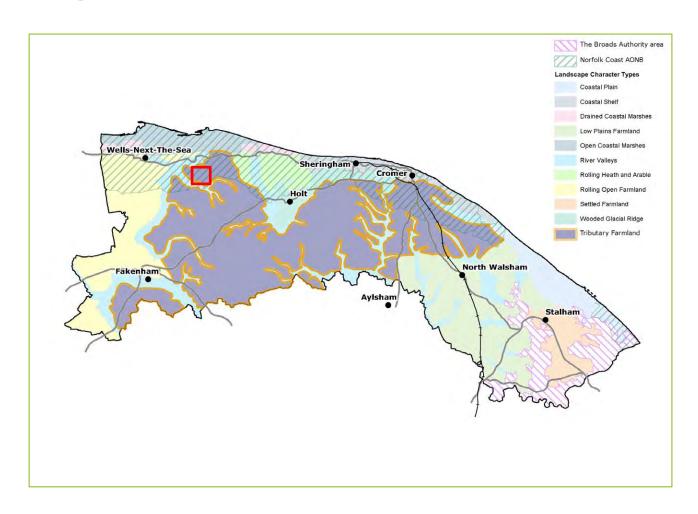
The following table provides an overall sensitivity rating, and justification for that rating, in relation to the relevant development types, based on the airfield sensitivity evaluation table above. It should be emphasised that the overall rating represents the typical sensitivity across the entire airfield site. Notable areas where sensitivity is higher or lower than typical are outlined within the table.

Development Type	Reason for judgement	Overall Sensitivity
Large scale wind turbines, (up to 80m hub height)	Whilst the flat, uniform landform, relatively large landscape scale, low landscape value, absence wildlife designations and lack of public access generally reduces sensitivity to large scale wind turbines, this is counterbalanced by the high cultural heritage value and proximity to landmark church towers and The Broads which increase sensitivity. Overall, typical sensitivity to this scale of turbine is considered to be moderate-high.	Moderate-High
Medium scale wind turbines, (up to 60m hub height)	Whilst the flat, uniform landform, relatively large landscape scale, low landscape value, absence wildlife designations and lack of public access generally reduces sensitivity to large scale wind turbines, this is counterbalanced by the high cultural heritage value and proximity to landmark church towers and The Broads which increase sensitivity. Overall, typical sensitivity to this scale of turbine is considered to be moderate-high.	Moderate-High
Small scale wind turbines, (up to 30m hub height)	Whilst the flat, uniform landform, relatively large landscape scale, low landscape value, absence wildlife designations and lack of public access generally reduces sensitivity to large scale wind turbines, this is counterbalanced by the high cultural heritage value and proximity to landmark church towers which increase sensitivity. Nevertheless, sensitivity would be lower to smaller turbines than larger turbines. Overall, typical sensitivity to this scale of turbine is considered to be moderate.	Moderate
Field-scale solar PV development (above 5MW capacity or 15 hectares site area and above)	There is already a large solar farm on this site and the flat landform, presence of some potential screening features (or ability to mitigate using screen planting) and lack of access for recreation reduce sensitivity to further field-scale solar PV development. The only indicator of increased landscape sensitivity is the cultural heritage interest of the site, although the biodiversity value of the remaining grassland for local skylark populations is recognised. Overall, typical sensitivity to further solar PV development is considered to be low-moderate .	Low-Moderate
Onshore cable routes (for offshore wind farms)	The flat, uniform landform, low value landcover, distance form landscape designations and lack of access for recreational all reduce sensitivity to onshore cable routes. The only indicator of increased sensitivity is the cultural heritage interest of the site. Overall, typical sensitivity to onshore cable routes is considered to be low-moderate .	Low-Moderate
Commercial battery storage schemes, Cable relay stations and sub-stations (for offshore wind farms) and Anaerobic digestion plants (typical size range 2.5 – 8 ha)	The flat landform, low value landcover, presence of some potential screening features (or ability to mitigate using screen planting) and lack of access for recreation reduce sensitivity to these types of development. The only indicator of increased sensitivity is the cultural heritage interest of the site. Overall, typical sensitivity to further solar PV development is considered to be low-moderate .	Low-Moderate

Reservoirs (typical size range 2 - 5ha)

The flat landform and more open and exposed character of parts of the site would make it more difficult to naturally integrate or screen reservoir embankments within the landscape. In addition, the site has cultural heritage interest which increases its value and therefore overall sensitivity. However, the flat landform, low value landcover, presence of some potential screening features (or ability to mitigate using screen planting) and lack of access for recreation reduce sensitivity to reservoir development. Overall, typical sensitivity to reservoir development is considered to be **low-moderate**.

Low-Moderate





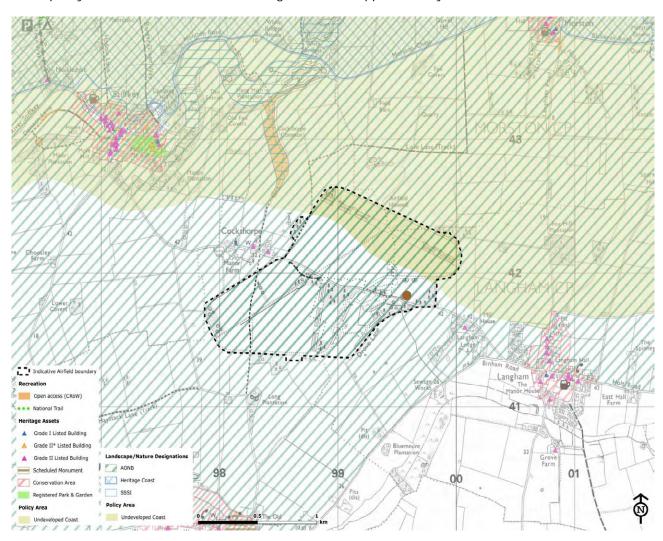
Baseline Landscape

Introduction to the Airfield

In common with many of the District's airfields, Langham is a former RAF World War 2 airfield, which was upgraded during 1942-43 from a grass landing strip to a 'Class A standard' airfield, with the construction of three concrete runways and a significant number of associated buildings, most notably Langham Dome, one of the few remaining anti-aircraft training simulators and a Scheduled Ancient Monument. Langham was used as a base for aircraft from RAF 16 Group, Coastal Command until the end of the war, and continued in use by the RAF until it was closed in 1958.

The airfield is located on a flatter plateau area within the north-western part of the Tributary Farmland Type, and is characterised by a combination of open arable farmland, several large commercial poultry sheds sited on the former runways, a number of planted woodland blocks and shelterbelts, and original retained airfield building/structures. The surrounding landscape is open, elevated and gently rolling/undulating arable farmland with medium to large scale, geometric fields enclosed by hedgerows and shelterbelts, and contains the settlements of Cockthorpe and Langham.

The airfield lies wholly within the North Norfolk AONB, and partly within North Norfolk's Undeveloped Coast policy area. The North Norfolk Heritage Coast lies approximately 1km to the north of the site.



Key Characteristics of the Airfield¹

- A concave, plateau-like landform of between 35-42m AOD, which dips towards the centre of the airfield.
- The Langham to Stiffkey minor road runs east-west through the centre of the site.
- A major telecommunications mast is sited on the north-western edge of the airfield, which forms a prominent skyline feature in extensive local views, particularly from the lower coastal areas.
- A number of low-profile commercial poultry sheds, with taller metal feed silos, which cumulatively comprise significant built form.
- A series of small scale, free-standing solar PV panels associated with the poultry sheds.
- A number of planted woodland blocks and shelterbelts (deciduous, coniferous and mixed), in both perimeter and central locations within the site.
- The sense of openness and enclosure varies significantly, depending on the proximity and relationship to the areas of mature vegetation, although the predominant character is open and fairly exposed, reflecting the dominance of arable landcover.
- Longer-range views into the site are restricted by the lack of significantly higher vantage points, but are possible from the slightly higher land to the west, although the mature vegetation breaks up and screens many areas.
- Remnant concrete hard standings including the airfield perimeter road and runways.
- Remnant airfield buildings and structures including the watch office, underground battle headquarters and the dome teacher (aka Langham Dome).
- Two public footpaths and one byway cross the site.
- Some elevated, expansive views from the edges of the site across the tributary farmland landscape to the south and west, and north to the coast and the sea.

Valued features and qualities of the Airfield

- Cultural heritage value as a former RAF WW2 airfield, with some original built features retained, including the Langham Dome, built in 1942 as a state-of-the-art anti-aircraft gunnery trainer. The rarity and importance of the dome is reflected in its designation as a Scheduled Monument, and it has recently been restored and opened as a visitor attraction, with extensive visitor interpretation and information features on the history of the airfield.
- Ecological value in the form of areas of deciduous woodland, a priority habitat.
- Predominant arable land use complements that of the surrounding LCT.

¹ Detailed information about landscape character and valued features of the wider ROF LCT is set out in the North Norfolk Landscape Character Assessment (2018)

Landscape Sensitivity Evaluation

Criteria Appraisal

The following table illustrates the appraisal of Langham Airfield against the sensitivity criteria which have been predetermined for the development types.

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity to the development type	stro sens	ngly in	fluence		dev	elopme	nt type	not	×
Sensi Crite	itivity ria	Characteristics of	the airfield	strongly influence sensitivity in either direction Indicators of higher/lower susceptibility and value for each development type Inchines Small scale wind trubines suspense on ough e mast. so at complete the state on the by the gle line,								
				Large scale Wind Turbines		Small scale wind turbines	scale solar	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Susce	eptibilit	ility Criteria										
Topog & sky	graphy lines	landform, with a prictive Cockthorpe telewest edge of the air feed silos of the pothe skyline in a nurthey are much less. In views from the largely flat, university to all for reservoirs, and the introduced a moder skyline. However, the fact that the telecory prominent modern with occasional land only other skyline from the skylines are predory overall, sensitivity	iform landform lowers ims of development except the telecoms mast has in, vertical feature on the this is balanced out by the ms mast is the single feature on the skyline, dmark church towers the features, meaning that the minantly undeveloped. to the taller developments gly influenced in either				1	Ţ				1
Lando	cover	farmland, woodland and remnant airfiel (roads/tracks and a modern built form. landcover across the influence sensitivity except for onshore	redominantly arable d blocks and shelter belts, d hard standings aprons) with original and The predominant arable he site does not strongly y in either direction, cable routes (which	_	0	_	_	Ţ.				_

KEY	increas	ites generally se sensitivity to velopment type	Attributes generally decrease sensitivity to the development type	stro	ibutes ongly intesting in interest in inte	fluence	er	dev	erion/ elopme licable	nt type	not	×
Sensi Crite	itivity ria	Characteristics of	the airfield			_	er/low nent ty		sceptib	oility a	nd valu	ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		temporary cable lay deciduous woodlan priority habitat, wo sensitivity to all for these localised area. The areas of the sit existing built form landcover sensitivity	ms of development in as. te with hardstanding and are likely to have a lower									
Sense openr enclos	ness/	certain directions b woodland blocks ar surrounding the air generally increased developments inco structures, such as	ening is provided from y the linear shelter belts, and hedgerows within and field. This results in I sensitivity to	1	1	1		_				-
Scale (landf and compe featur landse patter comp	onent res), cape	large scale, broadly surrounding tributa simple, geometric a inside the perimete divided by the form runways and hards incorporates some regular scale of the susceptibility to all	ary farmland, with arable fields arranged or road. The fields are ner arrangement of tandings, which now shelter belts. The large, area generally reduces development types, as the easily accommodated the overall landscape.	Î	1	Ţ	Ţ	*	Ţ	1	1	1
	uillity/ teness/ ty &	remoteness which of undeveloped chara landscape, which is	uil, with a sense of draws on the generally cter of the surrounding reflected in its within the AONB, and	1	1	1	1	1	1	1	1	1

KEY	increas	es generally e sensitivity to relopment type	Attributes generally decrease sensitivity to the development type	stro sens	ibutes on the sitivity of the street of the		er 🖳	deve	erion/ elopme licable	nt type	not	×
Sensi Criter	-	Characteristics of	the airfield			_	er/low nent ty		sceptib	oility ar	nd valu	ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
influer Undev	partly within the Undeveloped Coast policy area. Despite the airfield being a manmade feature in the landscape, the built form present does not significantly detraction from the sense of rurality, tranquillity and remoteness, and the minor road through the site is lightly trafficked. These qualities generally increase sensitivity to all forms of development under consideration.						-	Ĭ		v	, _	-
Time of historicontin	ical	former WW2 airfield contain any historic identified by the No categorised as com agricultural enclosu have a lower susce	d, the site does not a landscape types or folk HLC, and is prising 20 th Century or s, which generally ptibility to all forms of the limited time depth		1	1	1	1	1	Ţ	1	1
Value	e Criteria	a										
and ex	cape nations xtent ich special ies be	AONB. Any of the tunder consideration potential to adverse defined special qual particular the under sense of remotenes wildness (and dark and distinctive visusea. As a result, the nationally valued later to sunder the sense of the sense o	skies), and the strong al links between land and e presence of these ndscapes increases ms of development within	1	1	1	1	1	1	1	1	1

KEY	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity to the development type	stro		do not fluence in eithe		Crite deve app	×			
	the development type to the development type Characteristics of the airfield Characteristics of the airfield Characteristics of the airfield Characteristics of the airfield The high scenic quality: The high scenic quality is recognised through					_	er/low nent ty		sceptib	oility a	nd valı	ne
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Other indica value	indicators of value The high scenic qua AONB designation (s		ality is recognised through (see above), which nole of the airfield.	1	1	1	1	1	1	1	1	1
		typical arable farml	airfield is relatively and and is not a ant example of a World	Î	1	1	1	1	1	1	1	1
		This is not a rare ty Intactness:		Î	1	1	1		1	1	Ţ	Î
		has been regularly construction of the former farmland, w to arable and more		1	1	1	1	1	1	1	1	Î

KEY	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity to the development type	stro		do not fluence in eithe		dev	erion/ elopme licable	nt type	not	×
Sensi Crite	nsitivity Characteristics of the airfield teria					_	er/low		sceptib	oility a	nd valu	ne
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Other indica value	itors of	interests: The Langham Dome Monument, however not apply more wid the airfield. Nevertl increases sensitivity. There are no nature designations within habitats are restrict	er this designation does ely to any other parts of neless its presence y. e conservation the site, and priority	1	1	1	1	1	1	1	1	1
		within or along the The Langham Dome attraction. Literary / artistic as	of Way are present boundary of the airfield. e is also a notable visitor sociations:	1	1	1	1	1	1	1	1	1

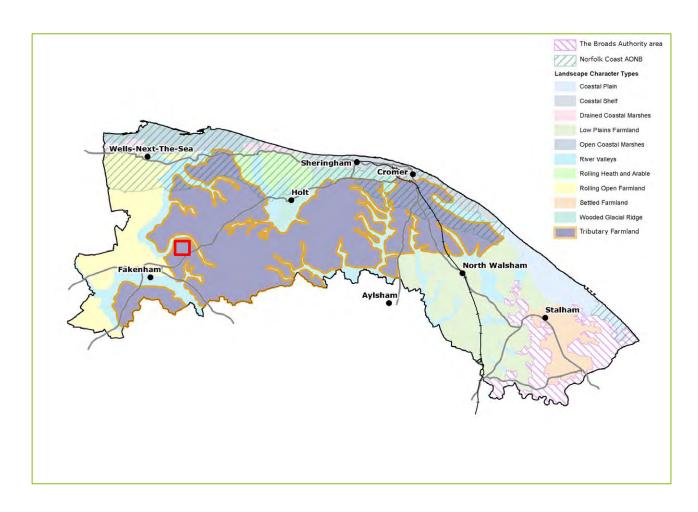
Overall sensitivity to different development types

The following table provides an overall sensitivity rating, and justification for that rating, in relation to the relevant development types, based on the airfield sensitivity evaluation table above. It should be emphasised that the overall rating represents the typical sensitivity across the entire airfield site. Notable areas where sensitivity is higher or lower than typical are outlined within the table.

Development Type	Reason for judgement	Overall Sensitivity
Large scale wind turbines, (up to 80m hub height)	Although the flat landform, typically large landscape scale and regular landscape pattern of modern arable fields might reduce sensitivity to large scale wind turbines in some situations, in this case the open, exposed and predominantly tranquil rural character and generally undeveloped skylines punctuated by occasional historic landmark features all increase sensitivity. The landscape within the AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and dark skies. The presence of large scale wind turbines in this location, which would be extensively visible as prominent skyline features within the AONB, is likely to conflict with its nationally valued undeveloped and naturalistic qualities. Overall, typical sensitivity to this scale of turbine is therefore considered to be high. This scale of turbine could also affect the special interest and appreciation of the Langham Dome Scheduled Monument and the neighbouring listed church towers in locations such as Cockthorpe, Langham and Blakeney.	High
Medium scale wind turbines, (up to 60m hub height)	Although the flat landform, typically large landscape scale and regular landscape pattern of modern arable fields might reduce sensitivity to medium scale wind turbines in some situations, in this case the open, exposed and predominantly tranquil rural character and generally undeveloped skylines punctuated by occasional historic landmark features all increase sensitivity. The landscape within the AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and dark skies. The presence of medium scale wind turbines in this location, which would be extensively visible as prominent skyline features within the AONB, is likely to conflict with its nationally valued undeveloped and naturalistic qualities. Overall, typical sensitivity to this scale of turbine is therefore considered to be high. This scale of turbine could also affect the special interest and appreciation of the Langham Dome Scheduled Monument and the neighbouring listed church towers in locations such as Cockthorpe, Langham and Blakeney.	High
Small scale wind turbines, (up to 30m hub height)	Whilst the flat landform, relatively large landscape scale and regular landscape pattern of modern arable fields might reduce sensitivity to small scale wind turbines in some situations, this is counterbalanced by the open, exposed and predominantly tranquil rural character and generally undeveloped skylines punctuated by occasional historic landmark features, which increase sensitivity. The landscape within the AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness,	Moderate-High

	tranquillity and dark skies. Small scale wind turbines in this location would be visible on the generally undeveloped skyline within the wider AONB beyond the airfield site, potentially in combination with landmark church towers. The extent of visibility would be dependent on siting and the degree of screening provided by on site features such as woodland blocks and shelter belts; however, there is likely to be some degree of conflict with the undeveloped and naturalistic qualities of the AONB. Overall, typical sensitivity to this scale of turbine is considered to be moderate-high. This scale of turbine could also affect (again, dependent on siting/screening) the special interest and appreciation of the Langham Dome Scheduled Monument and the neighbouring listed church towers in locations such as Cockthorpe, Langham and Blakeney.	
Field-scale solar PV development (above 5MW capacity or 15 hectares site area and above)	The generally flat landform includes some subtle but potentially significant variations in respect of sensitivity to field-scale solar PV development. Viewed from both the east and west, the northern half of the airfield site gently rises to the north, which would increase the prominence of solar panels sited here (and therefore sensitivity) particularly in the absence of existing internal hedgerows to the arable fields. Fields in the southern half of the site are flatter, which would reduce the prominence of solar panels. Screening is currently restricted to the established woodland blocks and occasional immature perimeter hedgerows; however, existing hedgerow and woodland screening could be sensitively increased without detriment to the wider landscape character. The relatively large landscape scale and regular landscape pattern of modern arable fields reduces sensitivity to solar panels, which is counterbalanced by the rural and tranquil character, which increases sensitivity to the perceived urban/industrial quality or appearance of solar panels. In addition to the above, the landscape within the AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and dark skies. The presence of field-scale solar PV development in this location could adversely affect the nationally valued undeveloped character and naturalistic qualities of the AONB, with the degree of impact dependent on siting, screening and extent of visibility within the wider landscape beyond the airfield. Overall, typical sensitivity to this type of development is considered to be moderate . This form of development could also affect (again, dependent on siting/screening) the special interest and appreciation of the Langham Dome Scheduled Monument.	Moderate
Onshore cable routes (for offshore wind farms)	The relatively flat, uniform landform, general absence of naturalistic landcover and low time depth reduce sensitivity to onshore cable routes. However, this is counterbalanced by the sense of tranquillity and remoteness, and the high landscape value reflected in the designation of the site within the AONB, which increase sensitivity. Subject to careful routeing, direct loss of important landscape features would be unlikely to occur and visibility of the cable trench during the landcover recovery phase would be limited beyond the site. However, it is acknowledged that the temporary construction activities associated with this form of development could potentially have an impact beyond the site, in terms of more widely affecting the special AONB qualities of undeveloped coastal character, tranquillity and remoteness. Overall, typical	Moderate

	sensitivity to this type of development is considered to be moderate .	
Commercial battery storage schemes, Cable relay stations and sub-stations (for offshore wind farms) and Anaerobic digestion plants (typical size range 2.5 – 8 ha)	The relatively flat landform, large landscape scale, low time depth, general absence of naturalistic landcover and presence of some higher screening planting (shelter belts / woodland blocks) all reduce sensitivity to industrial type developments, which typically include a combination of lower and taller elements. However, this is counterbalanced by the predominantly open and exposed landscape character, generally undeveloped skylines, sense of tranquillity and remoteness, and the high landscape value reflected in the designation of the site within the AONB, which all increase sensitivity.	Moderate-High
	The landscape within the AONB is underpinned by its special qualities of natural beauty, including its undeveloped coastal character of particularly high scenic quality, strong and distinctive links between land and sea, sense of remoteness, tranquillity and dark skies. The presence of industrial type developments in this location (particularly the taller elements which may be more widely visible on the skyline beyond the site), could conflict with the nationally valued undeveloped and naturalistic qualities of the AONB (depending on siting/screening). Overall, typical sensitivity to this type of development is considered to be moderate-high.	
	Industrial type developments could also affect (again, dependent on siting/screening) the special interest and appreciation of the Langham Dome Scheduled Monument and the neighbouring listed church towers in locations such as Cockthorpe, Langham and Blakeney.	
Reservoirs (typical size range 2 – 5ha)	The relatively large landscape scale, general absence of naturalistic landcover, and presence of some higher screening planting (shelter belts and woodland blocks) all reduce sensitivity to reservoirs. However, this is counterbalanced by the largely flat landform and more open and exposed character of parts of the site, which make it more difficult to integrate or screen the reservoir embankments within the landscape, and the high landscape value reflected in the designation of the site within the AONB, which all increase sensitivity.	Moderate
	Given the relatively low-lying nature of reservoirs, this form of development is unlikely to be a prominent feature on the skyline or be extensively visible from outside the airfield plateau. Notwithstanding this, the presence of reservoirs would introduce larger-scale modern development which could conflict with the special qualities of natural beauty of the AONB, including its undeveloped coastal character of particularly high scenic quality, sense of remoteness and tranquillity. Central, lower-lying parts of the site may have a locally lower sensitivity to accommodating reservoirs due to the greater ability to integrate and screen embankments, compared with the slightly higher and more exposed land around the perimeter, where reservoirs would be more prominent and therefore sensitivity would be locally higher. Overall, typical sensitivity to reservoirs across the airfield is considered to be moderate.	





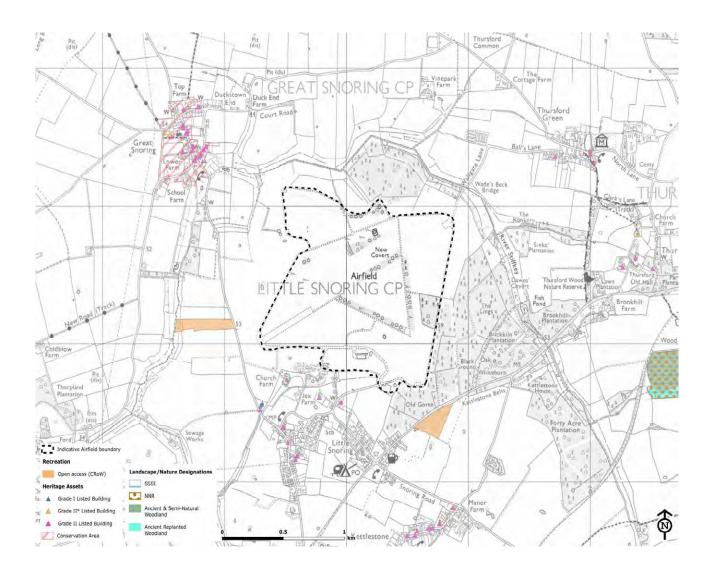
Baseline Landscape

Introduction to the Airfield

In common with many of the District's airfields, Little Snoring is a former RAF World War 2 airfield which became operational in 1943 as a base for aircraft from various RAF squadrons, and continued in use for military flying until 1953. Since 1958 the airfield has been in use for some civil general aviation flying, and remains operational today.

The airfield is located on an area of uniformly flat land south of the River Stiffkey valley, within the western part of the Tributary Farmland Type, and is characterised by a combination of open arable farmland, grassland, planted woodland blocks and shelterbelts and varied built form (described below). The surrounding landscape is dominated by gently undulating, medium to large scale arable farmland, dissected by the Stiffkey valley which contains pasture and woodland, and extensive areas of mature mixed forestry plantations on heathy ground to the east of the airfield.

The airfield lies outside any landscape designations, with the closest such designation being the Norfolk Coast AONB, which is 5.5km to the north of the site.



Key Characteristics of the Airfield¹

- An extensive area of flat land, of between 50-58m AOD. The surrounding land, apart from the Stiffkey valley, is of a similar elevation with no notable vantage points overlooking the airfield.
- One of the original runways remains operational (part concrete and part grass).
- Arable land use across the majority of the site, and an area of grassland in the south-eastern corner.
- Some linear deciduous and mixed woodland areas have developed along the line of former runways, in addition to larger deciduous and mixed woodland blocks, which provide enclosure and break up the open expanse of the airfield site, particularly when viewed from the east.
- Viewed from the west along the Little Snoring Road, the site has a relatively open and exposed character.
- The original concrete perimeter road/track has survived largely intact. The eastern part of the
 perimeter road is now a public road, running between the villages of Little Snoring and Thursford
 Green
- Buildings include two large, original hangars, the original control tower, more modern smaller hangars and an airfield clubhouse. Light aircraft manufacturing and maintenance is undertaken on the site.
- There are no designated heritage assets within the site.

Valued features and qualities of the Airfield

- Historic interest as a former RAF WW2 airfield, with some original built features retained, such as the control tower building, hangars and hard standings indicating former runways and perimeter roads/tracks.
- Recreational value as an operational airfield for civil general aviation.
- Arable land use complements that of the surrounding LCT.
- Some features of ecological value, including deciduous woodland, which is classified as a priority habitat, grassland and heathy margins.

-

¹ Detailed information about landscape character and valued features of the wider ROF LCT is set out in the North Norfolk Landscape Character Assessment (2018)

Landscape Sensitivity Evaluation

Criteria Appraisal

The following table illustrates the appraisal of Little Snoring Airfield against the sensitivity criteria which have been predetermined for the development types.

KEY	increase	es generally e sensitivity to relopment type	Attributes generally decrease sensitivity to the development type	Ţ	stron			_	de ty	riterion/ evelopm pe not oplicable	nent	×
Sens Crite	itivity ria	Characteristics of t	he airfield			_	ner/lov		sceptik	oility a	nd valu	ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Susc	eptibilit	y Criteria									-	
Topog & sky	graphy	the majority of the sith the site drops down in River Stiffkey. The skylines are gen formed by the surroumore distant woodland Some historic landmain certain views, for the Grade I Church of Snoring in views nor airfield from the sour detached tower of Stanoring, which is site west of the airfield. A cluster of large scalating's Lynn and West visible, but not promiskyline feature (apprin views west acrossie east. Whilst the flat, unifor reduces sensitivity to outweighed by the pundeveloped skylines sensitivity to wind turn the flat landform reduced scale solar PV developed cable routes, whilst i reservoirs. The flat I the generally undeveloped sensitivity to wind the generally undeveloped sensitivity to scale solar PV developed sensitivity.	erally undeveloped and unding woodland, or and on the horizon. ark features are visible example, the tower of of St. Mary, Great th-west across the th-east, and the Grade I are Andrews Church, Little ed 400m to the southalte wind turbines in the Norfolk District is also inent, as a long-range eximately 14km away) the airfield from the true landform generally of wind turbines, this is redominantly so, which increases	1	1	1	1	1				

KEY	increas	es generally e sensitivity to elopment type	Attributes generally decrease sensitivity to the development type	1	stron	utes do gly influ tivity in tion	ience	-	d ty	riterion/ evelopm /pe not pplicable	nent	×
Sensi Criter	_	Characteristics of t	he airfield			of high velopn			scepti	bility aı	nd valu	ne
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Landco	over	and remnant airfield (roads/tracks and ap modern built form. landcover across the influence sensitivity is except for onshore called is able to recove temporary cable laying deciduous woodland priority habitat, would sensitivity to all form these localised areas.	blocks and shelter belts, hard standings rons) with original and The predominant arable site does not strongly n either direction, able routes, as arable er easily from the ng phase. The discrete areas, which are a d have a higher is of development in . with hardstandings m are likely to have a					1				
Sense openn enclos	iess/	and woodland within airfield; with the wes than the east. The dother lying develwind turbines) could depending on siting velation to these screen	ting is provided from the linear shelter belts and surrounding the stern part more open egree of enclosure to opments (excluding vary significantly, within the airfield in tening elements. This increased sensitivity to orating taller vind turbines, whilst	1	1	1						
Scale (landfo and compo feature	onent	The airfield landscap large scale, broadly i surrounding tributary simple, geometric ar inside the perimeter	n line with the / farmland, with able fields arranged	1	1	1	1	×	Î	Î	1	1

KEY	increase	es generally e sensitivity to elopment type	Attributes generally decrease sensitivity to the development type	Ţ	strono	utes do gly influ tivity in ion	ience	_	de ty	riterion/ evelopm pe not oplicable	nent	×
Sensi Crite	itivity ria	Characteristics of t	he airfield			of high velopn			sceptik	oility ar	nd valu	ae
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
landso patter compl	rn &	divided by the forme runways and hardsta incorporates some shoreak up the expansilarge, regular scale creduces susceptibility types, as these could accommodated without landscape pattern or	ndings, which now helter belts, helping e of the airfield. The of the area generally to all development be more easily out harm to the overall									
	uillity/ teness/ ty & of n	there being little hun	rural character of its ne minor public road peing very lightly also a feeling of due to the isolation e woodland enclosing and the perception of nan influence, as the f Little Snoring is not	_		_		_	_	_	-	
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Time histor contir		a military airfield (20		Î	1	1	1	1	1	1	1	1

KEY	increas	es generally e sensitivity to relopment type	Attributes generally decrease sensitivity to the development type		strong	utes do gly influ ivity in ion	ience	_	de ty	riterion/ evelopm pe not oplicable	nent	*
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				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Value	e Criteri	a										
landse design and e to wh	nations extent lich special lies be	to any landscape designal coast AONB, which is the site. Given this slying developments (turbines) are unlikely special qualities of the undeveloped coaremoteness, tranquil dark skies), and the visual links between sensitivity to the low reduced. In the case of large a turbines, these may	attion being the Norfolk is 5.5km to the north of separation, the lower-fall except the taller wind it to affect the defined are AONB, which include stal character, sense of lity and wildness (and strong and distinctive land and sea. Therefore, er-lying developments is and medium scale form skyline features are AONB, and therefore affect these special	_		1	1	1	Ţ	Ţ	1	1
Other indica value	ators of	scale regular arable I form, mixed woodlan historic church tower Representativeness: The majority of the a typical arable farmlan	lity due to the andform, relatively large andcover, modern built and and presence of as in some views.	_		_	_	_	_	_	_	_
		War 2 airfield. Rarity: This is not a rare typ	e of landscape.	1	1	1	1	1	1		1	

KEY	increas	es generally e sensitivity to elopment type	Attributes generally decrease sensitivity to the development type	Ţ	strono	utes do gly influ ivity in ion	ience	-	d ty	riterion/ evelopm /pe not pplicable	nent	×
Sens Crite	itivity ria	Characteristics of t	he airfield			_	er/low nent ty		scepti	bility aı	nd valu	ie
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		has been regularly n construction of the V farmland, with subse	WW2 airfield from former equent reversion to ent introduction of built	Î	1	1	Ţ	1	1	1	1	1
		within the site. The be viewed in combina- listed church towers Great Snoring, and fi Area at Great Snoring potential to affect the	heritage designations taller developments may ation with the Grade I at Little Snoring and rom the Conservation g, which has the e special interest and assets, depending on	1	Î	_	-		_	-	_	
		There are no nature designations within thabitats are restricted deciduous woodland. Recreational value:		_	_	_	_	_	_	_	_	_
		the airfield, and recre	ld.	_	_	_		_	_	_	_	_
			famous literary/artistic	_	_	_	_	_	_	_	_	_

Little Snoring Airfield

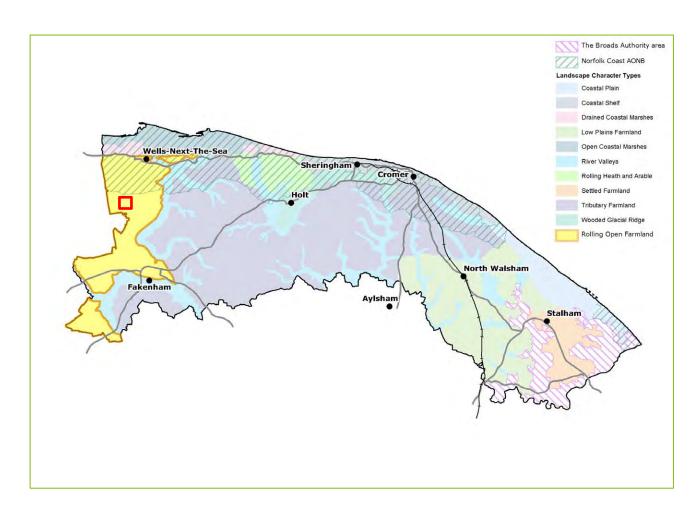
Overall sensitivity to different development types

The following table provides an overall sensitivity rating, and justification for that rating, in relation to the relevant development types, based on the airfield sensitivity evaluation table above. It should be emphasised that the overall rating represents the typical sensitivity across the entire airfield site. Notable areas where sensitivity is higher or lower than typical are outlined within the table.

Development Type	Reason for judgement	Overall Sensitivity
Large scale wind turbines, (up to 80m hub height)	Whilst the flat, uniform landform, relatively large landscape scale, relatively low landscape value and absence of on-site cultural heritage, wildlife and earth science designations generally reduces sensitivity to large scale wind turbines, this is counterbalanced by the predominantly undeveloped skylines, presence of neighbouring vernacular settlements and landmark church towers, and strongly rural character with a sense of tranquillity and remoteness, which increase sensitivity. Large scale wind turbines would be a dominant modern feature on the skyline in this location, and may also be visible from within the AONB to the north. Overall, typical sensitivity to this scale of turbine is considered to be moderate-high.	Moderate-High
Medium scale wind turbines, (up to 60m hub height)	Whilst the flat, uniform landform, relatively large landscape scale, relatively low landscape value, presence of woodland providing a degree of enclosure/screening, and absence of on-site cultural heritage, wildlife and earth science designations generally reduces sensitivity to medium scale wind turbines, this is counterbalanced by the predominantly undeveloped skylines, presence of neighbouring vernacular settlements and landmark church towers, and strongly rural character with a sense of tranquillity and remoteness, which increase sensitivity. Overall, typical sensitivity to this scale of turbine is considered to be moderate .	Moderate
Small scale wind turbines, (up to 30m hub height)	Whilst the flat, uniform landform, relatively large landscape scale, relatively low landscape value and absence of on-site cultural heritage, wildlife and earth science designations generally reduces sensitivity to small scale wind turbines, this is counterbalanced by the predominantly undeveloped skylines and potential intervisibility (depending on siting/screening) with the surrounding TF landscape, which increase sensitivity (the presence of small scale turbines as modern features on the skyline could conflict with the undeveloped and tranquil qualities and long uninterrupted views in the LCT). Overall, typical sensitivity to this scale of turbine is considered to be low-moderate.	Low-moderate
Field-scale solar PV development (above 5MW capacity or 15 hectares site area and above)	Typical sensitivity across the airfield to field-scale solar PV development is considered to be moderate . The flat, uniform landform, relatively large landscape scale, relatively low landscape value, absence of naturalistic landcover, cultural heritage, wildlife and earth science designations, and presence of some linear areas of woodland screening reduce sensitivity to field-scale solar PV development. However, there are no hedgerows present within the site, so without new screening planting solar panels located in the western part of the airfield would be fully exposed in views from Little Snoring Road and parts of Thursford Road, and would therefore appear as quite prominent and extensive modern features in the landscape, affecting the existing sense of rurality in the LCT.	Moderate

Little Snoring Airfield

	Areas of the airfield where solar panels could be more significantly screened by existing woodland, such as some central parts, would have a lower sensitivity to such development.	
Onshore cable routes (for offshore wind farms)	The flat, uniform landform, relatively large landscape scale, relatively low landscape value, general absence of naturalistic landcover, cultural heritage, wildlife and earth science designations, presence of some higher screening planting (woodland belts/blocks) all reduce sensitivity to onshore cable routes, as direct loss of important landscape features would be unlikely to occur (subject to careful routeing) and visibility of the cable trench would be very limited beyond the site. The sense of tranquillity within and surrounding the site could also be affected by the temporary construction activities associated with this form of development. Overall, typical sensitivity to onshore cable routes in considered to be low-moderate .	Low-Moderate
Commercial battery storage schemes, Cable relay stations and sub-stations (for offshore wind farms) and Anaerobic digestion plants (typical size range 2.5 – 8 ha)	The flat, uniform landform, relatively large landscape scale, relatively low landscape value, general absence of naturalistic landcover, cultural heritage, wildlife and earth science designations, and presence of some higher screening planting (woodland belts/blocks) all reduce sensitivity to industrial type developments. However, this is counterbalanced by the more open and exposed character of parts of the site, the predominantly undeveloped skylines with some local landmark church towers and potential intervisibility (depending on siting/screening) with the surrounding TF landscape, which increase sensitivity (the presence of the taller elements of industrial type developments on the skyline could conflict with the sense of rurality, tranquillity and long uninterrupted views of the LCT). Overall, typical sensitivity to this type of development is considered to be moderate . Areas of the airfield where industrial type development could be more significantly screened by existing woodland, such as some central parts, would have a lower sensitivity to such development.	
Reservoirs (typical size range 2 – 5ha)	The flat, uniform landform and more open and exposed character of parts of the site would make it more difficult to naturally integrate or screen reservoir embankments within the landscape, which increases sensitivity in these locations. However, this is counterbalanced by the relatively large landscape scale, relatively low landscape value, absence of naturalistic landcover, cultural heritage, wildlife and earth science designations, and presence of some higher screening planting (woodland belts and blocks), which reduce sensitivity to reservoirs. Overall, typical sensitivity to this type of development is considered to be moderate .	Moderate





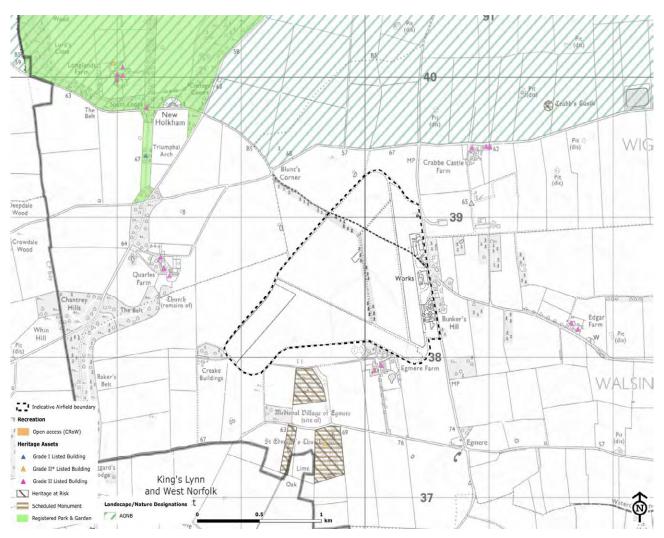
Baseline Landscape

Introduction to the Airfield

In common with many of the District's airfields, North Creake is a former RAF World War 2 airfield which became operational in 1943 as a base for aircraft from RAF Group 100 Bomber Command until the end of the war. It was closed and sold in 1947.

The airfield is located on a flatter plateau area within the northern part of the Rolling Open Farmland Type, and is characterised by a combination of open arable farmland, a solar farm and varied built form (described below). The surrounding landscape is open, gently rolling arable farmland with relatively large, geometric fields enclosed by hedgerows, with limited woodland cover (except within and enclosing Holkham Park), relatively few field/hedgerow trees and sparse settlement.

The airfield lies outside any landscape designations, although the Norfolk Coast AONB boundary lies approximately 150 metres to the north of the site. The North Norfolk Heritage Coast and North Norfolk's Undesignated Coast local designation are also situated 4km and 2.5km, respectively, to the north of the site. In addition, the Grade I registered parkland of Holkham Hall lies 1.2km to the north-west.



Key Characteristics of the Airfield¹

- A flat, slightly domed plateau area of between 70-75m AOD.
- Part of the former airfield area (approximately 40ha) is in use as a field-scale solar PV facility, with a 20MW capacity.
- Arable land use around the solar farm, on the remainder of the former airfield.
- Linear coniferous shelter belts provide a degree of enclosure and screening from the north, east and west.
- Despite the presence of the shelter belts, the site has a predominantly open, exposed character, although views into the site are restricted by the flat plateau landform, with no surrounding higher viewpoints.
- Remnant hard standings including airfield perimeter road.
- Significant (for the District) concentration of built form to the east of the former runway area, incorporating some of the former airfield structures, such as hangars and the control tower (restored and now in use as bed & breakfast accommodation), residential properties and an electricity substation. Some large scale buildings, including agricultural storage and feedstock manufacturing, anaerobic digestion plant, and beyond the site to the east of the B1105, recent development associated with the servicing of offshore wind farms. Appropriate development has been encouraged through the designation of a local enterprise zone by North Norfolk District Council.
- No designated heritage assets within the site, although the Scheduled Monument of Egmere
 medieval village (with Grade II* ruined church), and listed buildings at Egmere Farm, lie to the
 immediate south of the airfield, the Grade 1 Registered Park and Garden of Holkham Hall and
 listed Quarles Farm are to the north west and the listed buildings that make up Crabbe Castle
 Farm lie to the north east of the site.

Valued features and qualities of the Airfield

- Historic interest as former RAF WW2 airfield, with some original built features retained, such as control tower building and hard standings indicating former runways and perimeter roads.
- Arable land use complements that of the surrounding LCT, with built form restricted to low-rise solar PV panels which do not compromise the undeveloped skyline and open character of the LCT or the adjacent AONB.

1

¹ Detailed information about landscape character and valued features of the wider ROF LCT is set out in the North Norfolk Landscape Character Assessment (2018)

Landscape Sensitivity Evaluation

Criteria Appraisal

The following table illustrates the appraisal of North Creake airfield against the sensitivity criteria which have been predetermined for the development types.

KEY	increase	es generally e sensitivity to elopment type	Attributes generally decrease sensitivity to the development type	Ţ	strong	utes do gly influ ivity in ion	ience	_	de ty	riterion/ evelopm pe not oplicable	nent	×
Sens Crite	itivity ria	Characteristics of t	he airfield			_	er/lov nent ty		sceptik	oility aı	nd valu	ae
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Susc	eptibilit	y Criteria										
Topog & sky	graphy	generally undeveloped farmland, coniferous woodland blocks, too form on the edge of immediately beyond digestion tanks, stor rise electricity poles, vertical structures prothe site which are provided by the pundeveloped skylines increases sensitivity particularly as turbing high point would be the surrounding area AONB. The flat landform recescale solar PV developed sylines area.	land in the LCT, with a ed skyline formed by shelter belts and small gether with some built the airfield area or such as anaerobic age buildings, and low-There are no taller resent on or surrounding ominent on the skyline. I'm landform generally by wind turbines, this is redominantly so of the wider LCT, which to wind turbines, the sited on this local extensively visible from	1	1	1	↓					1
Lando	cover	higher screening and the generally undeve of sensitivity to indu	landform and degree of denclosure balances out beloped skylines in respect strial type developments, at esome taller elements.					П				

KEY	increase	es generally e sensitivity to elopment type	Attributes generally decrease sensitivity to the development type	Ţ	stronç	utes do gly influ ivity in ion	ience	_	d ty	riterion/ evelopm /pe not pplicable	nent	×
Sens Crite	itivity ria	Characteristics of t	he airfield			_	er/lov nent ty		cepti	bility ar	nd valu	ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		landcover across the influence sensitivity i except for onshore carelative ease of resto following the laying of the smaller areas of hardstandings and exhave a lower landcov forms of development.	cks and aprons) and The predominant arable site does not strongly n either direction, able routes, due to the ring such landcover of cables. the site with disting built form may her sensitivity to all t, depending on the heria, such as detailed									
Sense openr enclos	ness/	woodland blocks and surrounding the airfic openness generally in developments incorpostructures, such as w	the linear shelter belts, hedgerows within and eld. The sense of ncreases sensitivity to orating taller	1	1	1	_	_	-	-		_
Scale (landi and comp featui landsi pattei comp	form onent res), cape rn &	perimeter road. The the former arrangem hardstandings, which some shelter belts. of the area generally to all development ty more easily accommo	n line with the nland, with simple, ds arranged inside the fields are divided by ent of runways and	1	1	1	1	*	1	Ţ	1	1
Sense tranq	e of uillity/		oundings are relatively e of remoteness which		_						_	_

KEY	increase	es generally e sensitivity to elopment type	Attributes generally decrease sensitivity to the development type	1	stronç	utes do gly influ ivity in ion	ience	_	d ty	riterion/ evelopm pe not oplicable	nent	×
Sens Crite	sitivity eria	Characteristics of t	he airfield			_	er/lov nent ty		sceptil	oility ar	nd valu	ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
remo rurali level huma influe	of an	that this is a man-math landscape, and the sof built form and relationativity within and to the airfield (known at Park), including the control of the second secon	er ROF landscape; sterbalanced by the fact ade feature in the ignificant concentration sted regular vehicle the immediate east of a Egmere Business operational solar farm, cale grain stores. This suence and activity y high sense of ty which is typical of			0, 4				, v		
Time histor contir		Notwithstanding its he former WW2 airfield, contain any historic lidentified by the Nort categorised as compagricultural enclosure have a lower suscept development, due to and historic qualities	the site does not andscape types folk HLC, and is rising 20 th Century es, which generally ibility to all forms of the limited time depth	1	1	1	1	1	1	1	1	Î
Value	e Criteri	а										
lands desig and e to wh	nations extent nich special ties	designations; however Norfolk Coast AONB I approximately 150m. The North Norfolk He 4km to the north of the proximity to the extent the Heritage Coverall sensitivity of of development which reaching impacts that AONB's defined specitive undeveloped coast	to the north of the site. ritage Coast is situated he site. AONB, and to a lesser coast, increases the the landscape to forms hare likely to have far	1	1	1				_		_

KEY	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity to the development type	1	stronç	utes do gly influ ivity in ion	ience	_	de ty	riterion/ evelopm /pe not oplicable	nent	×
Sens Crite	itivity ria	Characteristics of t	he airfield			of high velopn			sceptil	oility aı	nd valu	ue
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		In this instance, talle wind turbines, which skyline features on the degree of promin scale), would likely be and could adversely qualities. For this redesignation increases turbines on this site. Depending on siting/other forms of develor incorporate some tall substations, cable replants, could also ad AONB special qualities although they are like	er structures such as would be prominent his local high point (with hence depending on their er visible from the AONB, affect the AONB's special ason the presence of the sensitivity to wind screening mitigation, opment which ler elements, such as lay stations and AD versely affect these as for the same reasons,									
Other indica value	ators of	to the combination o arable landcover, mo coniferous shelter be <u>Representativeness:</u> The majority of airfie arable farmland and	erate scenic quality due f flat landform, modern odern built form and lts. eld is relatively typical is not a particularly of a World War 2 airfield.	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
		has been regularly m construction of the W	-	Î	1	1	1	1	Ţ	1	1	1

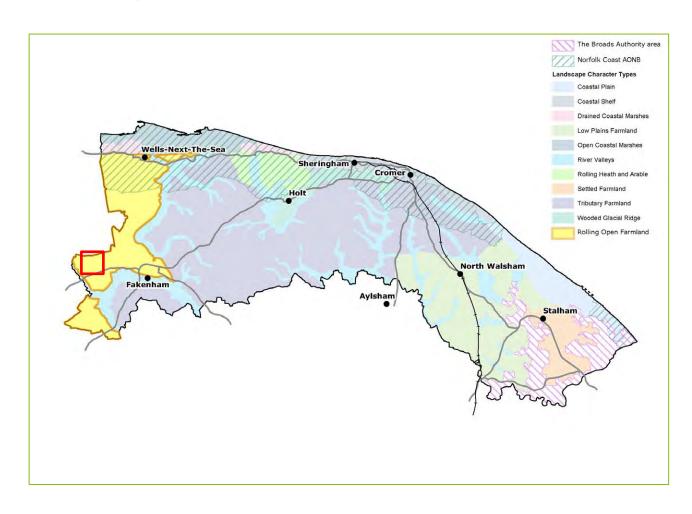
ir	ncrease	es generally e sensitivity to elopment type	Attributes generally decrease sensitivity to the development type	Ţ	stron	utes do gly influ ivity in ion	ience	_	de ty	riterion, evelopm pe not oplicable	nent	×
Sensitiv Criteria	-	Characteristics of t	he airfield			of high velopn			sceptik	oility a	nd valı	ne
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		solar farm, electricity coniferous shelter be Nature conservation interests: There are no cultural conservation designa are any priority habit Scheduled Monumen	& cultural heritage heritage or nature tions within the site, nor tats present. The t and listed church ruins ldings at Crabbe Castle rm and the Grade I Hall are situated in mity which increases	1	1	.	Ţ	Ţ	Ţ	1	Ţ	Ţ
		northern part of the a	footpath) crosses the airfield. ociations: famous literary/artistic	_		_				_	_	

Overall sensitivity to different development types

The following table provides an overall sensitivity rating, and justification for that rating, in relation to the relevant development types, based on the airfield sensitivity evaluation table above. It should be emphasised that the overall rating represents the typical sensitivity across the entire airfield site. Notable areas where sensitivity is higher or lower than typical are outlined within the table.

Development Type	Reason for judgement	Overall Sensitivity
Large scale wind turbines, (up to 80m hub height)	Whilst the flat, uniform landform, relatively large landscape scale, relatively low landscape value and absence of on-site cultural heritage, wildlife and earth science designations generally reduces sensitivity to large scale wind turbines, this is outweighed by the predominantly undeveloped skylines and strong intervisibility with the surrounding ROF landscape and the AONB, which increase sensitivity (the presence of large scale turbines as prominent features on the skyline could conflict with the undeveloped and naturalistic qualities of the AONB and the ROF LCT). This scale of turbine could also affect the special interest and appreciation of the Scheduled Monument and listed church ruins at Egmere and the Grade I Holkham Hall parkland, which are both situated in relatively close proximity to the airfield. Overall, typical sensitivity to this scale of turbine is considered to be high.	High
Medium scale wind turbines, (up to 60m hub height)	Whilst the flat, uniform landform, relatively large landscape scale, relatively low landscape value and absence of on-site cultural heritage, wildlife and earth science designations generally reduces sensitivity to medium scale wind turbines, this is outweighed by the predominantly undeveloped skylines and strong intervisibility with the surrounding ROF landscape and the AONB, which increase sensitivity (the presence of large scale turbines as prominent features on the skyline could conflict with the undeveloped and naturalistic qualities of the AONB and the ROF LCT). This scale of turbine could also affect the special interest and appreciation of the Scheduled Monument and listed church ruins at Egmere and the Grade I Holkham Hall parkland, which are both situated in relatively close proximity to the airfield. Overall, typical sensitivity to this scale of turbine is considered to be high.	High
Small scale wind turbines, (up to 30m hub height)	Whilst the flat, uniform landform, relatively large landscape scale, relatively low landscape value and absence of on-site cultural heritage, wildlife and earth science designations generally reduces sensitivity to small scale wind turbines, this is counterbalanced by the predominantly undeveloped skylines and potential intervisibility (depending on siting/screening) with the surrounding ROF landscape and the AONB, which increase sensitivity (the presence of small scale turbines as prominent features on the skyline could conflict with the undeveloped and naturalistic qualities of the AONB and the ROF LCT). This scale of turbine could also affect (again, dependent on siting/screening) the special interest and appreciation of the Scheduled Monument and listed church ruins at Egmere and the Grade I Holkham Hall parkland, which are both situated in relatively close proximity to the airfield. Overall, typical sensitivity to this scale of turbine is considered to be moderate-high.	Moderate-High

Field-scale solar PV development (above 5MW capacity or 15 hectares site area and above)	The flat, uniform landform, relatively large landscape scale, relatively low landscape value, absence of naturalistic landcover, cultural heritage, wildlife and earth science designations, and presence of some higher screening planting (shelter belts / woodland blocks) all reduce sensitivity to field-scale solar PV development. Some parts of the airfield are more open and exposed, with no or limited screening features, allowing views of the existing solar PV facility; however, PV panels are unlikely to be extensively visible from outside the site, including from within the AONB to the north, and would be unlikely to detract from its undeveloped character and naturalistic qualities, including the undeveloped skylines. Overall, typical sensitivity to this type of development is considered to be low-moderate.	Low-Moderate
Onshore cable routes (for offshore wind farms)	The flat, uniform landform, relatively large landscape scale, relatively low landscape value, absence of naturalistic landcover, cultural heritage, wildlife and earth science designations, presence of some higher screening planting (shelter belts / woodland blocks), and lower than typical tranquillity (higher human intervention) all reduce sensitivity to onshore cable routes, as direct loss of important landscape features would be unlikely to occur and visibility of the cable trench would be very limited or non-existent beyond the site. Notwithstanding the presence of the AONB immediately to the north of the site, if considered in isolation the typical sensitivity of the airfield itself to onshore cable routes is considered to be low-moderate. However, it is acknowledged that the temporary construction activities associated with this form of development could potentially have a wider impact beyond the site, in terms of affecting the special AONB qualities of tranquillity and remoteness.	Low-Moderate
Commercial battery storage schemes, Cable relay stations and sub-stations (for offshore wind farms) and Anaerobic digestion plants (typical size range 2.5 – 8 ha)	The flat, uniform landform, relatively large landscape scale, relatively low landscape value, absence of naturalistic landcover, cultural heritage, wildlife and earth science designations, and presence of some higher screening planting (shelter belts / woodland blocks) all reduce sensitivity to industrial type developments. However, this is counterbalanced by the more open and exposed character of parts of the site, the predominantly undeveloped skylines and potential intervisibility (depending on siting/screening) with the surrounding ROF landscape and the AONB, which increase sensitivity (the presence of the taller elements of industrial type developments on the skyline could conflict with the undeveloped and naturalistic qualities of the AONB and the ROF LCT). Overall, typical sensitivity to this type of development is considered to be moderate.	Moderate
Reservoirs (typical size range 2 – 5ha)	The relatively large landscape scale, relatively low landscape value, absence of naturalistic landcover, cultural heritage, wildlife and earth science designations, and presence of some higher screening planting (shelter belts / woodland blocks) all reduce sensitivity to reservoirs. However, this is counterbalanced by the flat, uniform landform and more open and exposed character of parts of the site, which make it more difficult to integrate or screen the reservoir embankments within the landscape. Given the relatively low-lying nature of reservoirs, this form of development is unlikely to be a prominent feature on the skyline or be extensively visible from outside the airfield plateau (a local high point), including from within the AONB to the north, and would be unlikely to detract from its undeveloped character and naturalistic qualities. Overall, typical sensitivity to this type of development is considered to be moderate.	Moderate





Baseline Landscape

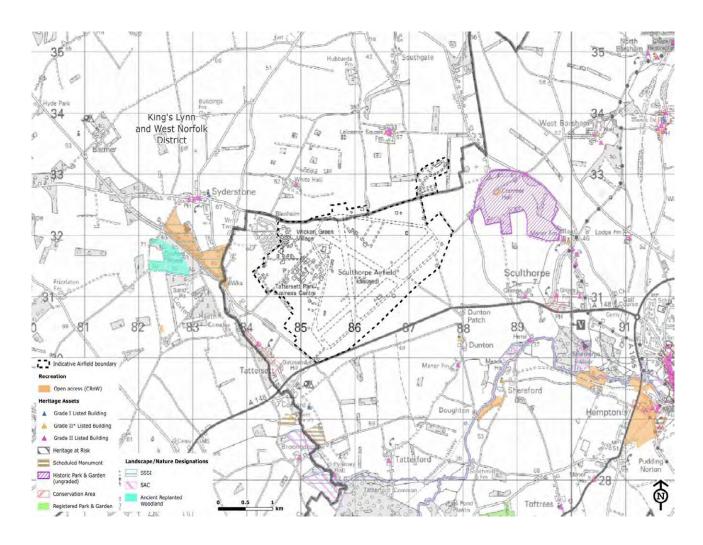
Introduction to the Airfield

RAF Sculthorpe became operational in 1943 as a satellite airfield to RAF West Raynham, having been constructed for heavy bomber use. During the Cold War period Sculthorpe became an important base for the USAF; by 1957 it was their biggest base in Europe, with 10,000 personnel. The airfield became inactive in the early 1990's, but the airfield is retained by the MOD for training purposes. The base's technical and domestic site was sold off in the mid-1990's, with the housing estate being refurbished and renamed to Wicken Green Village and the remaining site developed as an industrial park, the Tattersett Business Park.

The airfield is located on a low plateau on the western side of the Rolling Open Farmland Landscape Type, falling away to the north to the valley of the River Burn (within Kings Lynn and West Norfolk Borough), to the east towards Sculthorpe, located alongside a shallow tributary valley of the Wensum, and to the west/south-west into the valley of the River Tatt. To the south of the runways the plateau continues for some 1.5km before dropping down to the Wensum Valley. The surrounding area is characterised by large-scale arable farmland, with a significant component of woodland in the valleys.

The A148 runs close to the southern edge of the airfield, adjoining it in the south-western corner near the hamlet of Coxford, the B1454 also follows the boundary near this corner of the site for a short distance, and provides access to the Business Park, and Syderstone Road runs up to the north-western edge of the airfield.

The airfield lies outside any landscape designations, with the closest such designation being the Norfolk Coast AONB which is over 7km to the north of the site.



Key Characteristics of the Airfield¹

- Wicken Green Village (the base's former living quarters), Tattersett Business Park (the former technical area) and the airfield, with surrounding grassland, cover an area in excess of 500 hectares, mostly situated on a low plateau framed by river valleys. Tattersett Business Park lies in a shallow valley extending east from the valley of the River Tatt.
- Sculthorpe is no longer an operation base but remains within the MOD estate as a training area, so some of the runways are currently still maintained and used on occasion. The control tower and adjacent fire station building remain, but most other airfield structures have been demolished.
- The site is largely open, with limited tree cover other than a small woodland block to the west of the Business Park, and several field boundary tree lines, but the airfield lies at a higher elevation than adjacent roads, so the site forms a low horizon beyond its perimeter fence, with no extensive visibility across its surface.
- Woodland plays a more significant role in the wider landscape, with a number of blocks and belts
 of trees breaking up the otherwise very open, arable landscape. There are sizeable woodlands on
 the western side of the valley of the River Tatt in particular. Nearby hamlets at Tattersett,
 Coxford and Dunton, and the village of Sculthorpe, lie in valley locations, and the village of
 Syderstone lies across flat land to the north-west of Wicken Green, There is no significantly
 higher land beyond the valleys, so visibility of the airfield and of built development in Wicken
 Green and at Tattersett Business Park is very limited.
- There are no designated heritage assets within the site.

Valued features and qualities of the Airfield

- The site has historic interest as a former RAF WW2 airfield that retains several buildings and runways.
- The site's open, expansive character is in keeping with the surrounding farmed landscape. Although the presence and character of built development has an impact on visual character and tranquillity in the immediate area, the airfield nonetheless retains a sense of remoteness, being set on a plateau that is not overlooked by surrounding land.
- The limited visual impact of the airfield means that the surrounding landscape is not significantly affected by its presence, and therefore retains a strong rural character, with undeveloped skylines.
- The grasslands within the airfield site are a scarce feature within the Rolling Open Farmlands Landscape Type, but they are not a sensitive or designated habitat type. The small area of deciduous woodland near the Business Park is classified as a priority habitat.

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¹ Detailed information about landscape character and valued features of the wider ROF LCT is set out in the North Norfolk Landscape Character Assessment (2018)

Landscape Sensitivity Evaluation

Criteria Appraisal

The following table illustrates the appraisal of Sculthorpe Airfield against the sensitivity criteria which have been predetermined for the development types.

KEY	increas	es generally e sensitivity to elopment type	Attributes generally decrease sensitivity to the development type	Ţ	stron	utes dogly influtivity in	uence	_	de ty	riterion/ evelopm pe not oplicable	nent	×
Sensi Crite	itivity ria	Characteristics of	the airfield			_	ner/lov		sceptik	oility a	nd valu	ue
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Susce	eptibilit	y Criteria										
Topog & sky	graphy lines	across the majority the shallow valley was located, generally ratypes of renewable the larger wind turn views from nearby landforms make it reservoir earthwork surrounding landsceplateau character of Skylines are undev degree of sensitivity distinctive, being for local woodlands an are no particularly heritage features (wicinity). The upper parts of scale (101m to tip) Lynn and West Norbetween Syderstom 3km from the nearwisible from some lare 6 large scale (1 just over 3km to the	as, but visibility from the ape is limited by the afthe site. eloped and so have a y, but are not particularly ormed of distant or more d arable fields, and there	1		Ţ	↓	1	Į.	1	1	

KEY	increas	tes generally e sensitivity to relopment type	Attributes generally decrease sensitivity to the development type	Ţ	stron	utes do gly influ tivity in ion	uence	_	d ty	riterion/ evelopm pe not oplicable	nent	×
Sens Crite	itivity ria	Characteristics of	the airfield			of high velopn			sceptil	oility a	nd valu	ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Lando	cover	scarcity value withi landscape, and has ground-nesting bird context within a preconstitute a sensitive small areas of decid higher sensitivity, is characterised by the hard surfacing and therefore considered	d grassland has some n this generally arable ecological value for ds, it does not, given its eviously developed site, we landscape element. The duous woodland have out most of the site is e presence of extensive built elements, and is ed less sensitive than more wer to all development	~	1	Ţ	Ţ	Ţ	Ţ	1	1	1
Sense openi enclo	ness/	widely visible again	turbines, which will be ast the skyline, but lower is likely to be contained	1	1	1	1	1	Ţ	1	1	1
featu lands patte	form conent res), cape	landscape, lacking features, and its ex and built developm and adjacent village geometric, arable la it. This reduces sus	etensive runway areas ent (the Business Park e) contrast with the andscape that surrounds sceptibility to all , as new development	1	1	1	1	*	1	1	Ţ	1
	uillity/ teness/ ty & of an	location, and the ai training site does n intensive use, but t surfaces and struct represents a level of landscape, and the Business Park and vadd to this. This off sensitivity in terms	the retention of airfield ures to support this use of human influence in the proximity of the Wicken Green Village fsets any increased	1	1	1	_	_	-		-	

KEY	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity to the development type	Ţ	stron	utes do gly influ ivity in ion	uence	_	d ty	riterion/ evelopm /pe not pplicable	nent	×
Sens Crite	itivity ria	Characteristics of	the airfield			_	er/lov		scepti	bility aı	nd valu	ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		impact beyond the site's plateau locati development has o the character of the landscape, so wind which would have o	ot have a significant site area. However the on means that existing nly a limited impact on e surrounding rural turbine development, greater impact on the ncreases sensitivity.									
Time histor contir		a military airfield (2 generally have a lo	d by the Norfolk HLC as 20 th Century), which will wer susceptibility to all ent, due to the limited torical continuity.	Î	1	1	Ţ	Ţ	1	1	Î	Ţ
Valu	e Criteri	a										
lands desig and e to wh	nations extent nich special ties be	to any landscape denearest such design Coast AONB, which of the site. Given to lying developments turbines) are unliked special qualities of the undeveloped coremoteness, tranquedark skies), and the visual links between	within or in close proximity esignations, with the nation being the Norfolk is over 7km to the north this separation, the lowers (all except the taller winderly to affect the defined the AONB, which include pastal character, sense of aillity and wildness (and e strong and distinctive in land and sea. Therefore, wer-lying developments is	_		Ţ	Ţ	Ţ	Ţ	Ţ	1	1
		turbines, these may features visible from vegetation and elev	e and medium scale y form distant skyline m within the AONB where vation permit, but their ficantly affect special be very limited.									

KEY	Attributes generally increase sensitivity to the development type Attributes generally decrease sensitivity to the development type		Ţ	stron	utes do gly influ ivity in ion	ience	_	de ty	riterion/ evelopm pe not oplicable	nent	×
Sensi Criter	tivity ria	Characteristics of the airfield		ators of	_			sceptik	oility a	nd valı	ue
			Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Other		High scenic quality:									
indica value	tors of	The landscape within the airfield is of a relatively low scenic quality due to the combination of flat landform, absence of distinctive natural features and presence of built form.	1	1	1	1	1	1	1	1	1
		Representativeness: An absence of designations reflects the fact that the remaining features at Sculthorpe are not particularly valued in heritage terms as elements of a World War 2 / Cold War airfield. Changes since decommissioning, including sale of the domestic buildings and creation of the Business Park, have had a significant impact on its former character.	1	1	1	Ţ	Ţ	1	1	1	1
		Rarity: This is not a rare type of landscape. Intactness:	1	1	1	1	1	1	1	1	1
		Although the airfield retains a functional value it does not represent an intact landscape.	1	1	1	1	1	1	1	1	Î
		Nature conservation & cultural heritage interests:									
		There are no cultural heritage designations within the site. Cranmer Hall is an unregistered historic park surrounded a Listed house, the nearest edge of which is c.0.5km from the airfield boundary.	1	1	1	1	1	1	1	1	1
		There are no nature conservation designations within the site, and priority habitats are restricted to a small area of deciduous woodland on one boundary.	1	1	1	1	1	1	1	1	1
		Recreational value:									
		No Public Rights of Way are present within the airfield and there is no public access, reducing sensitivity in relation to this criterion.	1	1	1	1	1	1	1	1	1

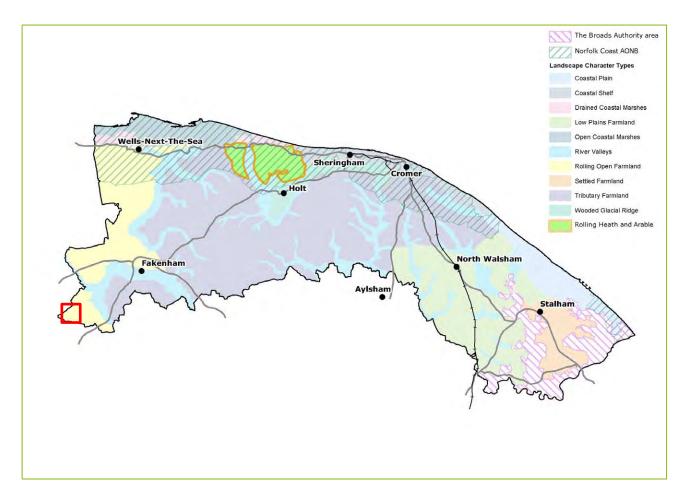
KEY	Attributes generally increase sensitivity to the development type Attributes generally decrease sensitivity to the development type			Attributes do not strongly influence sensitivity in either direction					de ty	riterion/ evelopm pe not oplicable	×	
Sensitivity Characteristics of the airfield Criteria				Indicators of higher/lower susceptibility and value for each development type							ae	
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		Literary / artistic as No known famous I associations.		_			-	1	П		П	

Overall sensitivity to different development types

The following table provides an overall sensitivity rating, and justification for that rating, in relation to the relevant development types, based on the airfield sensitivity evaluation table above. It should be emphasised that the overall rating represents the typical sensitivity across the entire airfield site. Notable areas where sensitivity is higher or lower than typical are outlined within the table.

Development Type	Reason for judgement	Overall Sensitivity
Large scale wind turbines, (up to 80m hub height)	The flat, uniform landform, relatively large landscape scale, relatively low landscape value and absence of on-site cultural heritage and natural designations generally reduces sensitivity to large scale wind turbines, but the rural character and tranquillity of the surrounding area raise sensitivity. Large scale wind turbines would be a dominant modern feature on the skyline in this location, and may also be visible from within the AONB to the north. Overall, typical sensitivity to this scale of turbine is considered to be moderate-high .	Moderate-High
Medium scale wind turbines, (up to 60m hub height)	The flat, uniform landform, relatively large landscape scale, relatively low landscape value and absence of on-site cultural heritage and natural designations generally reduces sensitivity to medium scale wind turbines, but the rural character and tranquillity of the surrounding area raise sensitivity. Medium scale wind turbines would be an evident modern feature on the skyline in this location, although views from surrounding valley locations are likely to be more limited by terrain and land cover, and there may be visibility from within the AONB to the north. Overall, typical sensitivity to this scale of turbine is considered to be moderate .	Moderate
Small scale wind turbines, (up to 30m hub height)	The flat, uniform landform, relatively large landscape scale, relatively low landscape value and absence of on-site cultural heritage and natural designations generally reduce sensitivity to small scale wind turbines. The rural character and tranquillity of the surrounding area raise sensitivity, but although small scale wind turbines would be an intrusive modern feature the extent of their visibility would be limited by terrain and tree cover in the wider landscape. Overall, typical sensitivity to this scale of turbine is considered to be low-moderate .	Low-moderate
Field-scale solar PV development (above 5MW capacity or 15 hectares site area and above)	The flat, uniform landform, relatively large landscape scale, relatively low landscape value, absence of naturalistic landcover, cultural heritage and natural designations reduce sensitivity to field-scale solar PV development. The plateau location of the airfield means that there is unlikely to be any significant visibility of field scale solar PV development in the wider landscape, so the extent to which the existing landscape has already been altered by airfield use significantly reduces sensitivity in comparison to the surround Rolling Open Farmlands Landscape Type. Typical sensitivity across the airfield to field-scale solar PV development is considered to be low .	Low
Onshore cable routes (for offshore wind farms)	The flat, uniform landform, relatively large landscape scale, relatively low landscape value, absence of naturalistic landcover, cultural heritage and natural designations reduce sensitivity to onshore cable routeing. The plateau location of the airfield means that there is unlikely to be any significant visibility of land cover clearance in the wider landscape, so the extent to which the existing landscape has already been altered by	Low

	airfield use significantly reduces sensitivity in comparison to the surround Rolling Open Farmlands Landscape Type. Typical sensitivity across the airfield to onshore cable routeing is considered to be low .	
Commercial battery storage schemes , Cable relay stations and sub-stations (for offshore wind farms) and Anaerobic digestion plants (typical size range 2.5 – 8 ha)	The flat, uniform landform, relatively large landscape scale, relatively low landscape value, absence of naturalistic landcover, cultural heritage and natural designations reduce sensitivity to industrial-type development. The plateau location of the airfield means that there is unlikely to be any significant visibility of land cover clearance in the wider landscape, so the extent to which the existing landscape has already been altered by airfield use significantly reduces sensitivity in comparison to the surround Rolling Open Farmlands Landscape Type. Typical sensitivity across the airfield to industrial-type development is considered to be low .	Low
Reservoirs (typical size range 2 – 5ha)	The relatively large landscape scale, relatively low landscape value, absence of naturalistic landcover, cultural heritage and natural designations reduce sensitivity to reservoir development. The plateau location of the airfield means that there is unlikely to be any significant visibility of reservoir earthworks in the wider landscape, so the extent to which the existing landscape has already been altered by airfield use significantly reduces sensitivity in comparison to the surround Rolling Open Farmlands Landscape Type. Typical sensitivity across the airfield to reservoir development is considered to be low .	Low





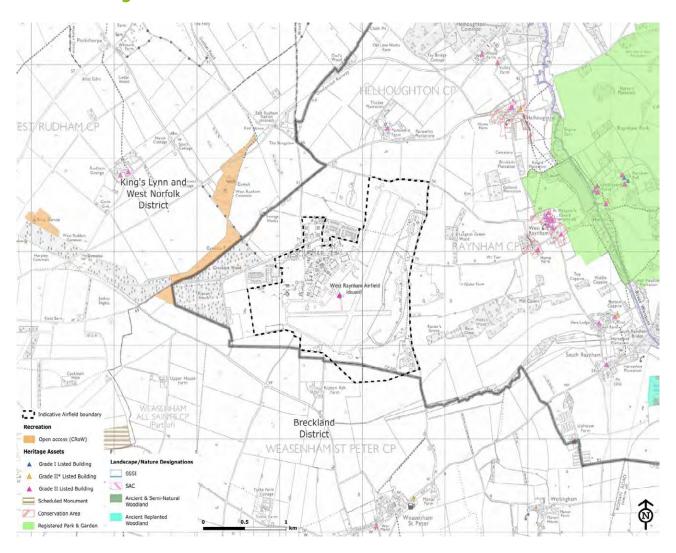
Baseline Landscape

Introduction to the Airfield

RAF West Raynham was built between 1938 and 1939, operating as a base initially for heavy bombers and later for fighter aircraft. Over 3000 staff were accommodated here by 1943. The base continued to operate in the post-war period, initially as an establishment involved in the development of new aircraft and tactics, and later as a base for surface to air missiles (which were sited on the eastern side of the site). RAf Raynham was shut down in 1994 but initially, although allowed to fall into disrepair, retained as a strategic reserve site. In 2004 it was fully decommissioned, then sold for development in 2006. 170 homes on the site were refurbished and sold, located in two clusters now known as the Orchard and Kipton Wood, and West Raynham Business Park was established, utilising four large former hangars and various former airfield technical buildings. In 2015 one of the largest solar farms in the country, covering over 90 hectares, became operational, and in 2018 plans were approved for further housing development.

The airfield is located on a plateau of higher ground rising up to the west of the River Wensum, on the western side of the Rolling Open Farmland Landscape Type. The landform also slopes gradually downhill northwards, towards the River Tatt and a smaller tributary, but remains an elevated, gently undulating plateau westwards for around 4km before becoming more complex and steeply undulating beyond the Massinghams. To the south the land falls away to a short tributary of the Wensum, but the plateau continues beyond. The surrounding area is characterised by large-scale arable farmland, with relatively prominent woodlands both on valley sides to the east and on high ground to the north, west and south.

There are only minor roads in the immediate vicinity of the airfield, and the nearest villages are West Raynham to the east and Weasenham St Peter to the south, both a little over 1km from the site boundary. The airfield lies outside any landscape designations, with the closest such designation being the Norfolk Coast AONB which is over 14km to the north of the site.



Key Characteristics of the Airfield¹

- The airfield is centred on an area of high ground that falls away towards its edges, although forming part of a broader plateau.
- Grassland remains around the outer southern, eastern and western edges of the site, but the runway area and land up to the northern boundaries is occupied by a solar farm.
- Former staff accommodation has in part been sold off as private dwellings, and the former airfield technical area is now a business park, utilising existing buildings including four large hangars. Open sided structures also remain on the eastern fringe of the site, on grassland currently in grazing use.
- Houses on the former airbase, and other buildings either in commercial use or awaiting renovation/demolition, are for the most part well screened by mature tree cover in their immediate surroundings, so there is little perception of the extent of built development from beyond the site perimeter.
- Tree cover around the built development on the western side of the site, and in the wider landscape, significantly limits views into the site other than from the some of the adjacent minor roads, from which the solar farm and taller structures, including the hangars, are partially visible.

¹ Detailed information about landscape character and valued features of the wider ROF LCT is set out in the North Norfolk Landscape Character Assessment (2018)

Valued features and qualities of the Airfield

- The site's open, expansive character is in keeping with the surrounding farmed landscape. The mature trees that contain much existing built development, including strong boundary hedgerows on the road approaching the site entrance, perform a valued function.
- Although the solar farm has a significant impact on character within the site, tree cover within the
 wider landscape plays a valuable role in limiting views and, where they are available, providing a
 containing backdrop which limits its influence on the remote, rural character and tranquillity of
 the area.
- The airfield control tower, an unusual design from the Second World War period, is a Listed building in the process of being converted to a residential dwelling. The wider assemblage of airfield buildings are also have heritage merit..

Landscape Sensitivity Evaluation

Criteria Appraisal

The following table illustrates the appraisal of West Raynham Airfield against the sensitivity criteria which have been predetermined for the development types.

KEY	increase	es generally e sensitivity to elopment type	Attributes generally decrease sensitivity to the development type	Ţ	stron	utes do gly influ ivity in ion	ience	_	c t	Criterion, levelopn ype not pplicabl	nent	×	
Sensi Crite	itivity ria	Characteristics of t	he airfield	Indicators of higher/lower susceptibility and value for each development type									
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs	
Susce	eptibilit	y Criteria											
Topog & sky	graphy lines	have a degree of ser particularly distinctive distant or more local fields, and there are prominent skyline her churches) in the vicin. The upper parts of the Lynn and West Norfor north and west of Sy and 10km from their are visible above back not sufficiently domin to wind development. On balance, the natuskylines have a neut turbines, and reduce	generally reduces ypes of renewable y undeveloped and so asitivity, but are not re, being formed of woodlands and arable no particularly ritage features (e.g. nity. wo wind farms in King's plk District, located to the rederstone between 7km nearest edge of the site, externant to reduce sensitivity is on the site. are of topography and ral impact on wind sensitivity to all other which would typically externant of reduced to the reduced sensitivity and reduc				↓	↓	1	↓	Į.	Į.	
Lando	cover	Built development, s grassland typify mos sensitivity to all deve	t of the site, reducing	1	1	1	1	1	1	Î	1	1	
Sense openr enclos	ness/	The site's open chara sensitivity to wind tu widely visible agains		1	1	1	_	_	_	_	_	_	

KEY	increase	Attributes generally decrease sensitivity to evelopment type Attributes generally decrease sensitivity to the development type										×
Sens Crite	itivity ria	Characteristics of t	he airfield			of high velopn			sceptik	oility ar	nd valu	ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		level development, w locations near the sit screened by tree cov surrounds.	= : =									
featu lands patte	form onent res), cape	The airfield is a large landscape, lacking sign boundary features, a farm forming a large reduces susceptibility types, as new developments.	gnificant internal nd within the solar mass within it. This 7 to all development	1	1	1	1	*	1	1	↓	1
	uillity/ teness/ ty & of in	location, but the sola and housing areas cr offsetting any increas of rurality and tranquelevel development ty have a significant im area. However the exthe local and wider to existing development impact on the characterial landscape, so we development, which	sed sensitivity in terms willity for the lower- pes that would not pact beyond the site extent of tree cover in andscape mean that thas only a limited exter of the surrounding wind turbine	1	1	1						
Time histor contir		a military airfield (20		1	1	1	1	1	1	Î	1	Î

KEY	increase	es generally e sensitivity to elopment type	Attributes generally decrease sensitivity to the development type	Ţ	stron	utes do gly influ tivity in ion	ience	_	de ty	riterion/ evelopm pe not oplicable	nent	×
Sensi Crite	itivity ria	Characteristics of t	he airfield	Indicators of higher/lower susceptibility and value for each development type								
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
Value	e Criteri	a										
landso design and ea to wh	nations xtent ich special ies be	to any landscape des nearest such designa Coast AONB, which is of the site. Given th visibility of tall turbin	ation being the Norfolk s over 14km to the north		1	1	Ţ	Î	1	1	Î	Ţ
Other indica value	itors of	built form.	quality due to the	1	1	Ţ	1	Ţ	Ţ	1	1	Î
		of heritage interest a 'expansion period' aid The absence of any for reflect this, and the economic character of the runy	re recognised as being as a good example of an rield from the 1930's. Formal designation to extent to which the way area has been assessment of		-	_	-	-	-	-	_	-
		Rarity: The majority of the a farm and World War	airfield is now a solar 2 airfields are not rare.	1	1	1	1	1	1	1	1	1

KEY	increas	es generally e sensitivity to elopment type	Attributes generally decrease sensitivity to the development type	1	stron	utes do gly influ ivity in ion	ience	-	de ty	riterion/ evelopm pe not oplicable	nent	×
Sens Crite	itivity ria	Characteristics of t	he airfield			_	er/lov nent ty		sceptik	oility an	nd valu	ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		has been regularly n both as part of the c airfield from former	farmland, and solar farm and business	Ţ	1	1	1	1	1	1	Ţ	1
		former control tower affected by the solar developments would given the importance historic role. To the esubstantial Registere surrounded a listed hwhich is a little over boundary. Mature tresite is likely to precluimpact on its setting development, but setturbines would be hig a backdrop above the	uilding on the site, the Its setting is already farm, but taller have a greater impact, of its elevation to its east, Raynham Park is a d Park and Garden fall, the nearest edge of 1km from the airfield ee cover containing the ide any significant from lower-level insitivity to larger gher as they would form ee tree line in sweeping in the higher, eastern	1	1	1						
		There are no nature designations within t		Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Î	Î	Ţ
		No Public Rights of W the airfield and there reducing sensitivity in criterion.	•	Î	Ţ	1	1	1	Î	1	Î	1

KEY	increase	es generally e sensitivity to elopment type	Attributes generally decrease sensitivity to the development type	to strongly influence development						nent	×	
Sens Crite	sitivity eria	Characteristics of t	he airfield		ators o	•			sceptik	oility ar	nd valu	ıe
				Large scale Wind Turbines	Medium scale wind turbines	Small scale wind turbines	Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		Literary / artistic assets No known famous lite associations.		_	_	_	_	ı	_	_	_	_

Overall sensitivity to different development types

The following table provides an overall sensitivity rating, and justification for that rating, in relation to the relevant development types, based on the airfield sensitivity evaluation table above. It should be emphasised that the overall rating represents the typical sensitivity across the entire airfield site. Notable areas where sensitivity is higher or lower than typical are outlined within the table.

Development Type	Reason for judgement	Overall Sensitivity
Large scale wind turbines, (up to 80m hub height)	The relatively flat landform, large landscape scale, relatively low landscape value and absence of on-site public access, cultural heritage and natural designations generally reduce sensitivity to large scale wind turbines, but the rural character and tranquillity of the surrounding area raise sensitivity. The airfield's openness means that large scale wind turbines would be a dominant modern feature on the skyline in this location. Overall, typical sensitivity to this scale of turbine is considered to be moderate-high .	Moderate-High
Medium scale wind turbines, (up to 60m hub height)	The relatively flat landform, large landscape scale, relatively low landscape value and absence of on-site public access, cultural heritage and natural designations generally reduce sensitivity to medium scale wind turbines, but the rural character and tranquillity of the surrounding area raise sensitivity. The airfield's openness means that medium scale wind turbines would be a distinctive modern feature on the skyline in this location, although tree cover within the wider landscape is likely reduce their impact in comparison to larger turbines. Overall, typical sensitivity to this scale of turbine is considered to be moderate .	Moderate
Small scale wind turbines, (up to 30m hub height)	The relatively flat landform, large landscape scale, relatively low landscape value and absence of on-site public access, cultural heritage and natural designations generally reduce sensitivity to small scale wind turbines. The rural character and tranquillity of the surrounding area raise sensitivity, but although small scale wind turbines would be an intrusive modern feature the extent of their visibility would be limited by terrain and tree cover in the wider landscape. Overall, typical sensitivity to this scale of turbine is considered to be low-moderate .	Low-moderate
Field-scale solar PV development (above 5MW capacity or 15 hectares site area and above)	There is already a large solar farm on this site, and the relatively flat landform, large landscape scale, relatively low landscape value, absence of naturalistic landcover, public access, cultural heritage and natural designations reduce sensitivity to further field-scale solar PV development. The well-treed wider setting of the airfield means that there is unlikely to be any significant visibility of field scale solar PV development in the wider landscape, so the extent to which the existing landscape has already been altered by airfield use and subsequent solar farm development significantly reduces sensitivity in comparison to the surround Rolling Open Farmlands Landscape Type. Typical sensitivity across the airfield to field-scale solar PV development is considered to be low.	Low
Onshore cable routes (for offshore wind farms)	The relatively flat landform, large landscape scale, relatively low landscape value, absence of naturalistic landcover, public access, cultural heritage and natural designations reduce sensitivity to cable routeing. The well-treed wider setting of the airfield means that there is unlikely to be any significant visibility of on-site clearance works in the wider	

	landscape, so the extent to which the existing landscape has already been altered by airfield use and subsequent solar farm development significantly reduces sensitivity in comparison to the surround Rolling Open Farmlands Landscape Type. Typical sensitivity across the airfield to cable-routeing is considered to be low .	
Commercial battery storage schemes , Cable relay stations and sub-stations (for offshore wind farms) and Anaerobic digestion plants (typical size range 2.5 – 8 ha)	The relatively flat landform, large landscape scale, relatively low landscape value, absence of naturalistic landcover, public access, cultural heritage and natural designations reduce sensitivity to industrial-type renewable energy development. The well-treed wider setting of the airfield means that there is unlikely to be any significant visibility of development in the wider landscape, so the extent to which the existing landscape has already been altered by airfield use and subsequent solar farm development significantly reduces sensitivity in comparison to the surround Rolling Open Farmlands Landscape Type. Typical sensitivity across the airfield to industrial-type renewable energy development is considered to be low .	Low
Reservoirs (typical size range 2 – 5ha)	The relatively flat landform and open character of the site would make it difficult to naturally integrate or screen reservoir embankments within the landscape. However the large landscape scale, relatively low landscape value, absence of naturalistic landcover, public access, cultural heritage and natural designations reduce sensitivity to further field-scale solar PV development. The well-treed wider setting of the airfield means that there is unlikely to be any significant visibility of reservoir development in the wider landscape, so the extent to which the existing landscape has already been altered by airfield use and subsequent solar farm development significantly reduces sensitivity in comparison to the surround Rolling Open Farmlands Landscape Type. Typical sensitivity across the airfield to reservoir development is considered to be low-moderate .	Low-moderate



Appendix 3 - Guidance for minimising harm to the landscape

The introduction of the types of development listed in Section 3 into North Norfolk could adversely affect the landscape, as reflected in the sensitivity comments and ratings summarised in Section 5. The guidance below describes siting and design measures which may in some circumstances be able to reduce the typical harm that would result from the assessed development types.

Wind energy development

The following guidelines should be considered when designing and siting wind energy development:

- Select sites in simple, regular landscapes with extensive areas of consistent ground cover over landscapes with more complex land cover patterns, smaller field sizes and landscapes with frequent human scale features. Avoid loss of areas of greater land cover interest, such as rarer grasslands and extensive areas of deciduous woodland.
- Select sites where the surrounding topography and landcover will assist in minimising the extent of visual impact, e.g. undulating landform with groups of trees will help to reduce wide ranging visual effects.
- Seek to avoid areas valued for their remoteness, and perceived 'untamed' naturalness e.g. the undeveloped coast and marsh.
- Avoid siting turbines where they would adversely affect the remoteness, tranquillity and wildness (and other special qualities) of the North Norfolk AONB, the natural beauty of the Heritage Coast or the undeveloped character of the Undeveloped Coast policy area.
 Turbines outside designated areas may also affect reason for designation and this should be carefully assessed.
- Consider views from local viewpoints, settlements (particularly Conservation Areas) and popular routes (e.g. walking, cycling). If development will be visible ensure it does not dominate and detract from the experience of visiting these locations/ travelling along these routes.
- Seek to avoid areas where ground level disturbance affects landscapes that are difficult to restore (e.g. marshland).
- Consider locations in association with business parks and reclaimed, industrial and manmade landscapes where other landscape sensitivities are not compromised.
- Consider the landscape effects of transmission infrastructure when siting development, aiming for sites that will minimise the need for above ground transmission infrastructure. Undergrounding cables may mitigate effects in sensitive locations.
- Use existing vegetation to screen ground-level features of wind energy developments (such as fencing, tracks and transformers).
- Ensure turbines do not detract from the understanding and appreciation of historic landmark features.
- Consider siting turbines so they are perceived as part of other built development / in association with a building group where effects on amenity allow.
- When developing multiple turbines, ensure that turbines read as a coherent group in all the main views aim for a composition that is visually balanced, simple and consistent in image as it is viewed from various directions. Avoid 'stacking' of turbines (where turbines are seen one behind another) or the 'windscreen wiper' effect (where just the blades of turbines are seen above the horizon) as far as possible, and particularly as seen from sensitive/ popular viewpoints.

- In urban fringe or industrial contexts, developments should respond to the scale of the built form and sit comfortably alongside buildings or structures.
- Ensure that the proportion of rotor diameter to tower height is balanced short blades on a tall tower or long blades on a short tower may look unbalanced. Aim for a ratio of approximately 1:1 for tower height: blade diameter.
- Simple, pale grey coloured turbines will generally be least intrusive (to reduce contrast with the sky).
- Minimise the width and length of new tracks introduced into the landscape, using existing routes wherever possible.
- Ancillary features should match the local vernacular where they are visible (e.g. using locally occurring materials on substations, control buildings, and transformer cabins if not housed within the turbines).
- If lighting is required on turbines for aviation purposes, use infra-red lighting to minimise visual effects at night, particularly in darker parts of the District.
- Consider providing enhanced management of landscape features, habitats and historic assets as part of any development, including contributing to the Norfolk Biodiversity Action Plan and guidelines in the North Norfolk Landscape Character Assessment.
- Consider seascape impacts of any onshore turbine developments, and conversely consider onshore impacts of any offshore turbines.
- Assess potential cumulative effects with existing wind energy developments (including between offshore and onshore turbines), and ensure that wind turbines do not become a dominant feature of the landscape.

Field scale solar PV

The following guidelines should be considered when designing and siting field-scale solar PV development:

- Locate development on lower slopes/within folds in gently undulating lowland landscapes or on flat plateau sites rather than on slopes, especially higher slopes and skylines.
- Site development in landscapes with a sense of enclosure (e.g. provided by woodland or high hedges) rather than in open and unenclosed landscapes (unless an elevated plateau lacking intervisibility with surrounding landscapes).
- Avoid areas of greater time depth e.g. historic landscape types such as commons, co-axial
 enclosures or parklands, and rural landscapes in the vicinity of vernacular villages or cultural
 heritage assets.
- Site away from areas valued for their remoteness, areas free from human influence and perceived 'untamed' naturalness e.g. undeveloped coast and marsh.
- Avoid sites where solar farms would adversely affect the remoteness, tranquillity and wildness (and other special qualities) of the North Norfolk AONB, the natural beauty of the Heritage Coast or the undeveloped character of the Undeveloped Coast policy area.
- Consider views from local viewpoints, settlements (particularly Conservation Areas) and popular routes (e.g. walking, cycling). If development will be visible ensure it does not dominate and detract from the experience of visiting these locations/ travelling along these routes.
- Ensure the area of development is in scale with the landscape in which it lies it is likely that areas with smaller scale fields will accommodate smaller developments. Minimise the number of adjacent fields that are developed to preserve legibility of field patterns.
- Retain and protect trees and hedgerows, to preserve existing field pattern, and plant additional locally occurring species to enhance screening that is in character with the

landscape. Avoid loss of areas of greater land cover interest, such as rarer grasslands and extensive areas of deciduous woodland.

- Minimise height of panels so that they will be as unobtrusive as possible in the landscape.
- Maintain land uses on the site that fit with the character of the area and manage vegetation under the solar panels to avoid the site becoming overgrown e.g. by grazing.
- Minimise the use of security lighting aim to use passive infra-red (PIR) technology where possible and ensure that any visible lighting is designed and installed in a manner which minimises glare or light spill into the surrounding landscape.
- Ensure that associated infrastructure (inverter stations, cctv and lighting poles) are of appropriate colour finish and siting so that they are not intrusive elements of such as development.
- Security fencing should be appropriate for the location, e.g, timber post and wire fencing is more appropriate in a rural location than a steel palisade option.
- Consider providing enhanced management of landscape features, habitats and historic
 assets as part of any development, including contributing to local Priority Habitats and
 guidelines in the North Norfolk Landscape Character Assessment. This could include the
 provision of both wildflower meadows and rough, tussocky grassland between and/or
 beneath solar panels and in field margins, to provide wildlife nesting and foraging areas,
 and the planting of cover crops including wild bird seed and nectar mixes.
- Incorporate Green Infrastructure into any proposal to ensure no overall loss of ecosystem services.
- Assess potential cumulative effects with other solar farms and ensure that solar farms do
 not become a dominant feature of the landscape maintain a diversity of landcover types in
 any one area.

Onshore Cable Routes

The following guidelines should be considered when routeing onshore cables:

- Aim to avoid landscape features such as mature trees and woodland (particularly ancient woodland), or other landscape or habitat types that are not easily restored.
- Use horizontal directional drilling (HDD) in particularly sensitive locations to conserve above ground features.
- Aim to avoid routes that would adversely affect the remoteness, tranquillity and wildness (and other special qualities) of the North Norfolk AONB, the natural beauty of the Heritage Coast or the undeveloped character of the Undeveloped Coast policy area.
- Consider views from local viewpoints, settlements (particularly Conservation Areas) and popular routes (e.g. walking, cycling). If development will be visible ensure it does not dominate and detract from the experience of visiting these locations/ travelling along these routes.
- Minimise the width of the corridor required to be excavated.
- Ensure ground re-instatement/restoration can be achieved avoid locating in naturalistic/ undeveloped landscapes where possible.
- Minimise disruption to field boundaries as far as possible routeing through areas of historic small scale fields will result in a greater impact than routeing through large scale arable fields.
- Avoid steep slopes where possible and aim to route through less visible areas.
- Areas of greater historic time depth (e.g. heaths, commons, parklands, undisturbed land)
 will be more vulnerable to cable laying than areas of lesser time depth and more recent disturbance.

Industrial type features and built form (varied scale)

The following guidelines should be considered when designing and siting industrial-type features and built form, including commercial battery storage, anaerobic digestion plants, cable relay stations and sub-stations:

- Aim to locate in proximity to existing built form (e.g. existing electricity substation infrastructure) and/or in areas with visual screening, and that are not overlooked.
- Ensure the scale of development is appropriate for its context.
- Protect the hedgerow network, trees, woodlands, and semi-natural habitats and aim to extend these as part of any landscape scheme associated with development.
- Enhance existing screening through the use of locally occurring species planting which integrates with features such as woodland and hedgerows within the wider landscape, to reinforce local character and biodiversity.
- Protect undeveloped skylines and backdrops from encroachment set any new built development back from scarp edges or valley crests and avoid highly visible slopes.
- Ensure prominent landmark features (particularly historic features such as church towers) remain prominent in the landscape and new development does not detract from these features.
- Avoid areas with greater time depth such as pre-18th century fields, and common land.
- Avoid locating in very open and naturalistic/ undeveloped landscapes, or historic small scale landscapes. Avoid loss of areas of greater land cover interest, such as rarer grasslands and extensive areas of deciduous woodland.
- Avoid development which adversely affects the special qualities of the North Norfolk AONB, the natural beauty of the Heritage Coast or the undeveloped character of the Undeveloped Coast policy area. Schemes should be limited to small scale AD plants that can be easily contained within an existing farm yard setting and operates without the need to import material from off the farm in question.
- Consider views from local viewpoints, settlements (particularly Conservation Areas) and popular routes (e.g. walking, cycling). If development will be visible ensure it does not dominate and detract from the experience of visiting these locations/ travelling along these routes.
- Avoid lighting structures as far as possible and limit hours of lighting where possible to reduce their impact at night.
- Consider use of curved and green (living) roofs to reduce the visibility of buildings and structures.
- Ensure open spaces around the buildings reflect the underlying landscape character by using locally occurring species and linking to the wider landscape.
- Minimise the use of security lighting aim to use passive infra-red (PIR) technology where possible and ensure that any visible lighting is designed and installed in a manner which minimises glare or light spill into the surrounding landscape.
- Consider providing enhanced management of landscape features, habitats and historic assets as part of any development, including contributing to Norfolk Biodiversity Action Plan and guidelines in the North Norfolk Landscape Character Assessment.
- Incorporate Green Infrastructure into any new development to ensure no overall loss of ecosystem services.

Reservoirs

The following guidelines should be considered when designing and siting reservoirs

- Avoid siting large scale reservoirs in historic small scale landscapes (including in areas of pre-18th century fields and commons);
- Avoid siting in semi-natural habitats;
- Avoid development which adversely affects the special qualities of the North Norfolk AONB, the natural beauty of the Heritage Coast or the undeveloped character of the Undeveloped Coast policy area.
- Set any development back from scarp edges or valley crests and avoid highly visible slopes.
- Consider views from local viewpoints, settlements (particularly Conservation Areas) and popular routes (e.g. walking, cycling). If development will be visible ensure it does not dominate and detract from the experience of visiting these locations/ travelling along these routes.
- Ensure development does not adversely affect the special interest of Registered Parks and Gardens or other designated cultural heritage features in the landscape.
- Avoid an overly-engineered appearance in the design of the embankments, by:
 - designing outward facing reservoir embankments to be as shallow a gradient as possible
 even if this requires a greater land take or more material;
 - o softening and rounding at the top and toe of the embankment will help in assimilation into the landscape;
 - o avoiding long straight lines along reservoir edges for example by breaking them up with undulations and vegetation;
 - o seeking to tie the shape of the reservoir into the landform; and
 - o creating undulating or uneven embankments rather than continuous smooth slopes, tying into local changes in topography.
- Utilise locally appropriate tree and hedgerow planting to integrate the development into the adjacent landscape structure, rather than simply as a screening boundary.
- Use tree and hedgerow planting to screen immediate views of security fencing and ancillary development.
- Avoid placing fencing or other development along the embankment top where it will be seen on the skyline.