

North Norfolk Landscape Sensitivity Assessment

with particular reference to renewable energy and low carbon development

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Prepared by LUC for North Norfolk District Council

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Supplementary Planning Document Final Report Prepared by LUC for North Norfolk District Council

Planning & EIA Design Landscape Planning Landscape Management Ecology Mapping & Visualisation

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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 includes consideration of the impact of renewable energy development within the District on the adjacent Broads designated landscape e.g. visual impact of wind turbines.

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.

Introduction

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 is one 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. The eastern section of the District lies within the Broads, a national landscape designation equivalent to a National Park, where the Broads Executive Authority has planning jurisdiction.
- 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 susceptibility and value.

Policy Context

National Planning Policy Framework (NPPF), 2018¹

- 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 [emphasis added]:

 $^{^{1}}$ The NPPF was updated in 2019, but this does not change the wording set out here.

"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 of the NPPF relates to planning for renewable energy and states [emphasis added]:

"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 b):

"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**".

1.14 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

1.15 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.

Potential uses of study	How NNDC might use the study	How developers might use the study
Identifying 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 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	The sensitivity levels in combination with the generic guidance can be used by developers to ensure their assessment considers all relevant

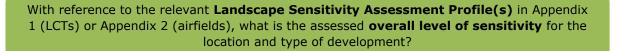
Table 1.1: Potential uses of the Landscape Sensitivity Assessment

	location or its design ² . 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.	points ³ . 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.

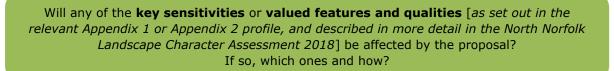
1.16 In relation to the second of these uses (assessing and appraising planning applications), the following flow chart should assist in using available information to shape proposals / assist in planning decisions:

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*



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?



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?

 $^{^2}$ 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.

³ 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.

Limitations of the landscape sensitivity assessment

- 1.17 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.
- 1.18 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.
- 1.19 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.
- 1.20 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).
- 1.21 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.
- 1.22 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.
- 1.23 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.

	SCALE OF STUDY AREA				
		Strategic level (regional)	District/ borough level	Sub-district level/ settlement edge	Specific site
SPECIFICITY OF PROPOSAL	Inherent sensitivity (no proposal)	LCA ⁴ (identify key sensitivities/ valued attributes of LCAs)	LCA (identify key sensitivities/ valued attributes of LCAs)	LCA/LSA ⁵ (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 ⁶ (Identify potential effects)

Table 1.2: Types of Landscape Study/ Assessment

⁴ Landscape Character Assessment ⁵ Landscape Sensitivity Assessment

⁶ Landscape and Visual Impact Assessment

Structure of this report

- 1.24 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.
 - **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.
- 1.25 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.

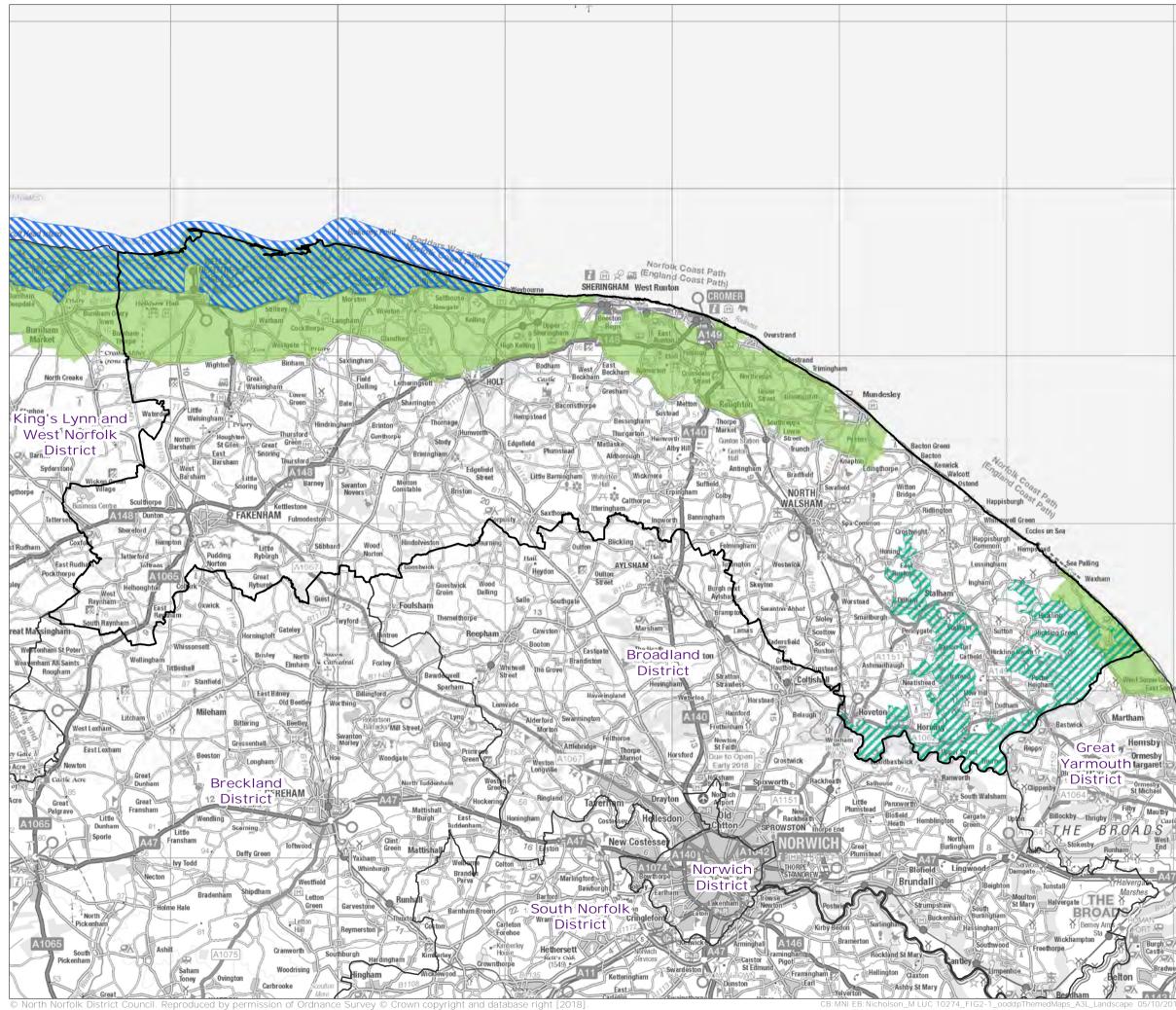
Understanding the Baseline Landscape

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.
- 2.2 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 lies within the Broads, which has the status equivalent to a National Park, and where the Broads Executive Authority are the planning body. For the purposes of this assessment, only areas of the District where NNDC is the Local Planning Authority have been included.
- 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 microgeneration⁷) 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.
- 2.7 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.

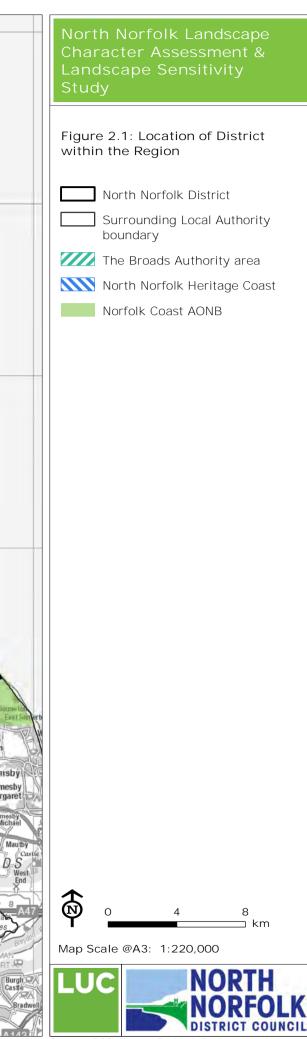
⁷ The Government's Microgeneration Certification Scheme (MCS) covers systems up to 200m² swept area, or 45m blade tip height, although permitted development rights are limited to single turbines below 11.1m tip height (and which also meet other locational criteria, including not being within an AONB)



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Source: BGS, Natural England, Environment Agency, NNDC

Landscape Character Baseline

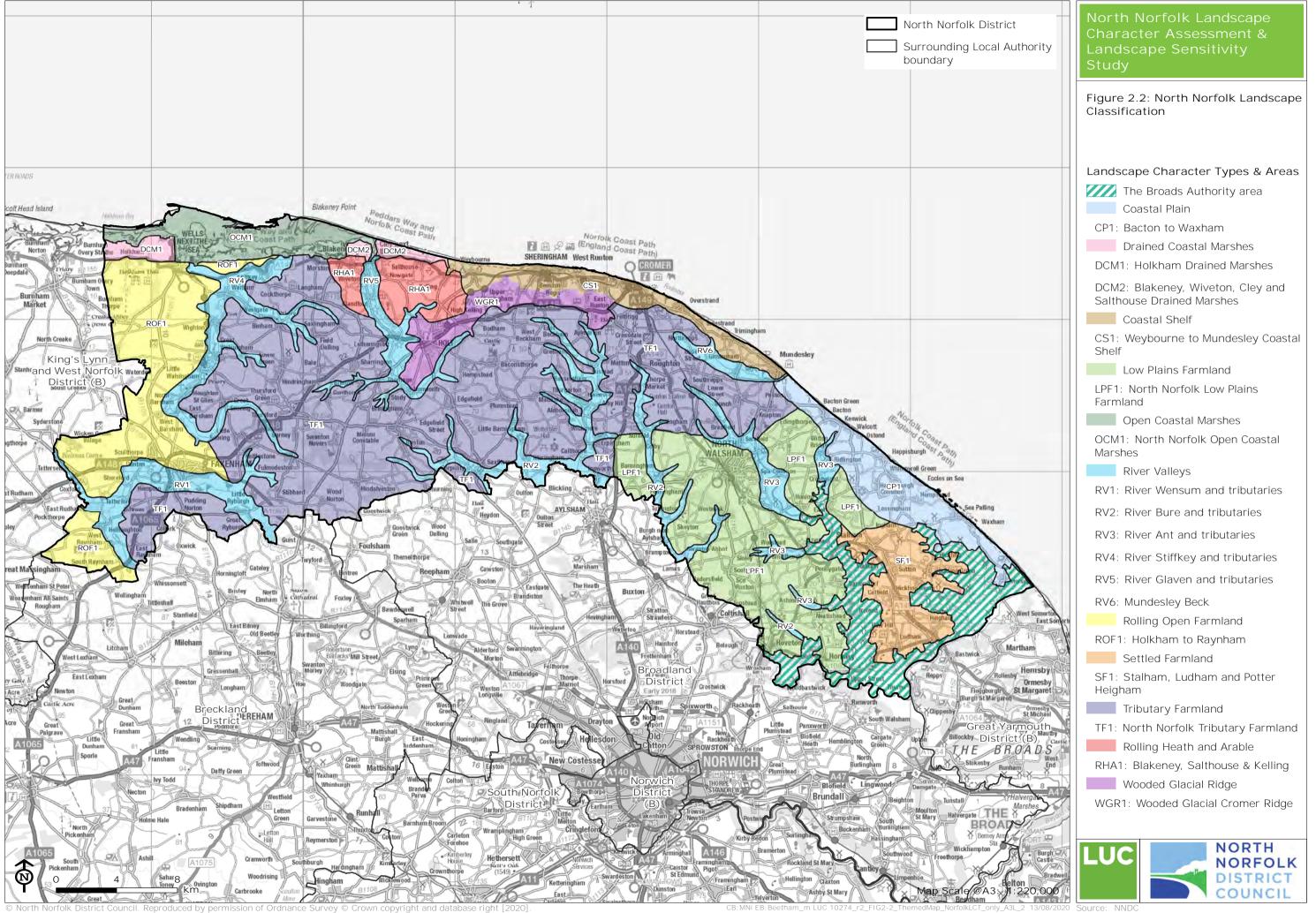
2.10 Landscape Character Types (LCTs) and Landscape Character Areas (LCAs) form the spatial framework and evidence base for this Landscape Sensitivity Assessment (see **Figure 2.2**).

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)
СР	Coastal Plain	CP1 Bacton to Waxham
CS	Coastal Shelf	CS1 Weybourne to Mundesley
DCM	Drained Coastal Marshes	DCM1 Holkham Drained Marshes
		DCM2 Blakeney, Wiveton, Cley and Salthouse Drained Marshes
LPF	Low Plains Farmland	LP1 North Norfolk Low Plains Farmland
ОСМ	Open Coastal Marshes	OCM1 North Norfolk Open Coastal Marshes
RHA	Rolling Heath and Arable	RHA1 Blakeney, Salthouse & Kelling
ROF	Rolling Open Farmland	ROF1 Holkham to Raynham
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		RV6 Mundesley Beck
SF	Settled Farmland	SF1 Stalham, Ludham and Potter Heigham
TF	Tributary Farmland	TF1 North Norfolk Tributary Farmland
WGR Wooded Glacial Ridge WGR1 Wooded Glacial Cr		WGR1 Wooded Glacial Cromer Ridge



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Source: NND

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 lies within 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. NNDC is the Local Planning Authority for much of the AONB, but not for the Broads. This Landscape Sensitivity Assessment is a tool to guide development within the NNDC planning area.

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.

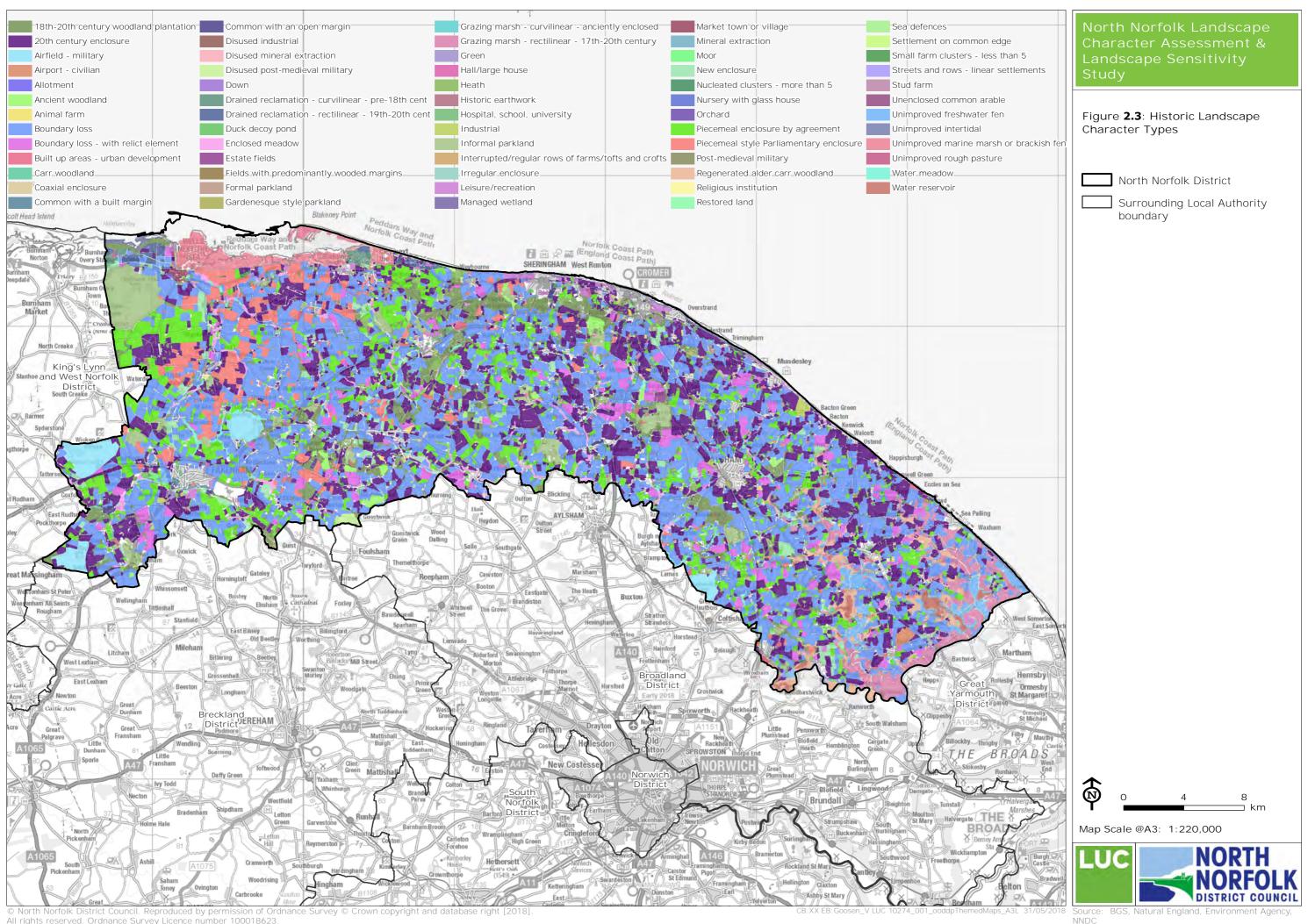
The Broads

- 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 planning jurisdiction and 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.
- 2.20 The key qualities of natural beauty of the Broads (the special qualities), which underpin its equivalent designation status as a National Park, as set out within the current Broads Local Plan (2015-2036), are provided below:
 - Rivers and open water bodies ('broads')
 - Fens, reed beds and wet woodlands
 - Grazing marshes and dyke networks
 - Flood plains, estuary and coast
 - Navigable, lock-free waterways
 - Special wildlife
 - Countryside access on land and water
 - Views, remoteness, tranquillity, wildness and 'big skies'
 - The people, the visitors, the activities
 - History: Earth heritage, heritage assets, archaeology, historic structures
 - Cultural assets, skills and traditions
 - People's interactions with the landscape
 - The settlements
 - Variety of patterns and textures of the landscape North Norfolk Heritage Coast
- 2.21 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

2.22 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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Other indicators of landscape value

2.23 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)

2.24 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

2.25 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

2.26 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

2.27 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

- 2.28 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.
- 2.29 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.
- 2.30 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.
- 2.31 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

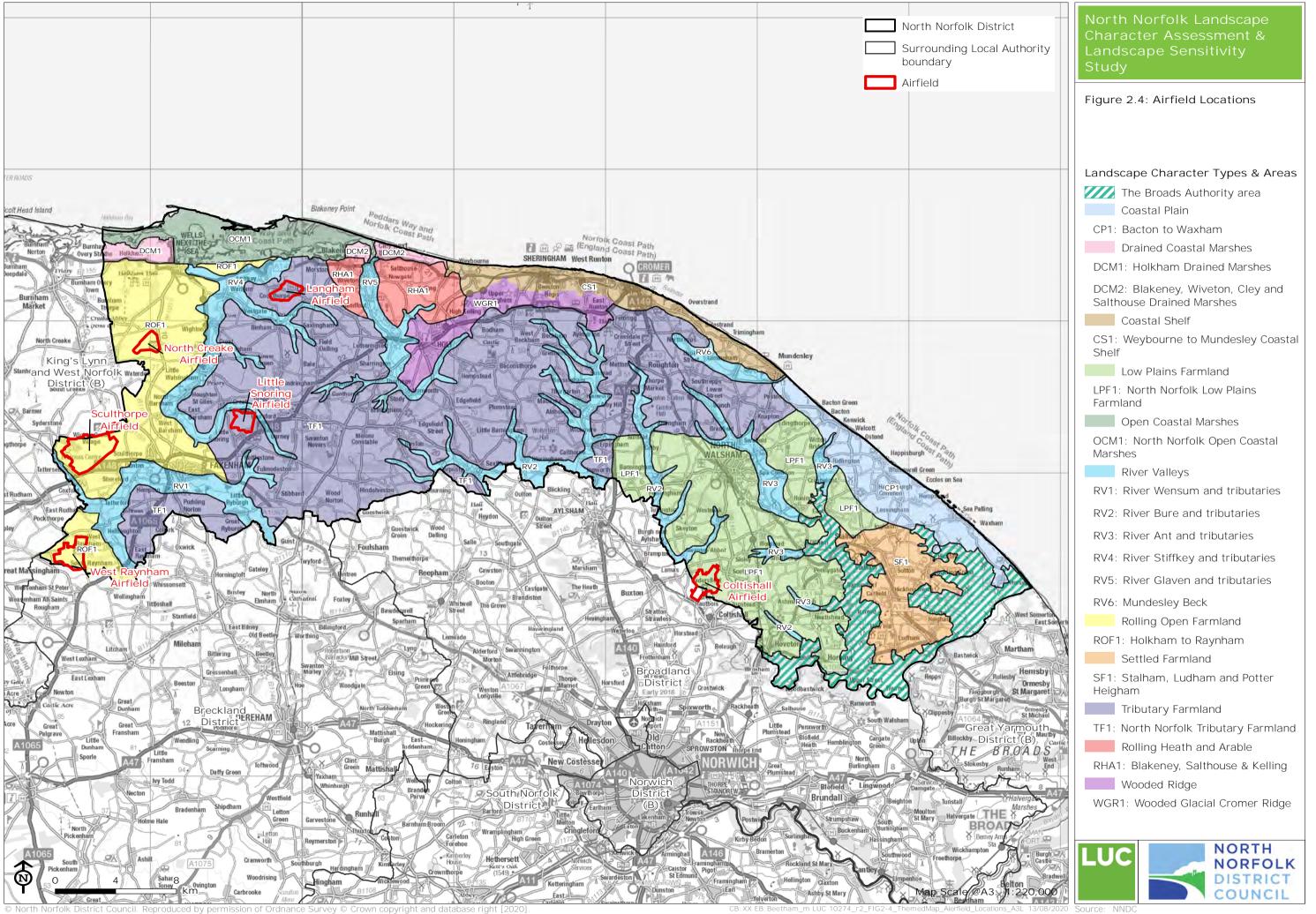
2.32 This relates to evidence that the landscape is valued for recreational activity where experience of the landscape is important. North Norfolk's coastline in particular is a focus for recreational activity as a result of the natural beauty of the landscape and biodiversity of the varied habitats. 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

- 2.33 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.
- 2.34 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."
- 2.35 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,
- 2.36 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."
- 2.37 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.
- 2.38 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.
- 2.39 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).
- 2.40 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

- 2.41 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.
- 2.42 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.
- 2.43 A number of these airfields contain operational large-scale solar PV developments, including West Raynham (96.5ha), Coltishall (122.8ha) and North Creake (42ha).
- 2.44 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**.



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ource: NND

Characteristics of Development Types and Potential Impact on Landscape

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.

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 hectares⁸ (capacity approximately 50MW).

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

- 3.14 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.

⁸ These figures are based on existing operational solar PV developments within North Norfolk – Source: North Norfolk District Council

- 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).
- 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.

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

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 freestanding 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

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.

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.

Methodology for the

Landscape Sensitivity Assessment

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 At the time of undertaking the assessment in 2018 there was no published method for evaluating the sensitivity of different types of landscape to development. The approach taken in this study therefore builds on LUC's considerable experience from studies of a similar nature as well as the guidance set out in the following documents, which were current at the time:
 - 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 ⁹;
 - 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 Topic Paper 6, GLVIA 3 and Natural England's approach to landscape sensitivity assessment 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 GLVIA 3 is focussed on individual development proposals, the same principle can be applied to identifying landscape sensitivity as part of strategic landscape planning studies, as confirmed in Natural England's 'Approach to landscape sensitivity assessment' (2019).

⁹ This study was undertaken before the publication of Natural England's 'An approach to landscape sensitivity assessment – to inform spatial planning and land management', June 2019, which now replaces Topic Paper 6. A review of the methodology was undertaken in October 2021 and it is in line with NE's new guidance.

- 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 society¹⁰.
- 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, including LVA/LVIA which are required for detailed planning and design.

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.

¹⁰ 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 Cr	iteria		
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	Some indicators of higher sensitivity	
	Flat and uniform landform	Irregular or complex landform	
	 Plateau areas (of sufficient size to allow turbines to be sited without significant slouing impact on surrounding 	 Narrow valleys with pronounced slopes 	
	skyline impact on surrounding landscapes) • Simple, featureless landform	 Distinct landform features, e.g. ridges, plateau edges or distinctive glacial features such as eskers 	
	Simple, featureless landformNon-prominent skylines	Landmark (historic) skyline features	
Landcover	 Landscapes containing extensive and consistent landcover patterns are likely to have 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, sal 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 mappin imagery (Google Earth); mapped habitat / nature conservation designation		
	Some indicators of lower sensitivity	Some indicators of higher sensitivity	
	Brownfield land	Naturalistic landcover	
	 Extensive and uniform/regular landcover (non-naturalistic) 	Complex/irregular field patternMosaics of landcover features	
	Commercial forestry plantations		

Sense of openness/ enclosure	Landscapes of open and exposed character would have a higher sensitivity to energy development due to the lack of visual screening, both of the turbines themselves and lesser opportunities for screening of associated elements su tracks and fencing. This means turbines are likely to be visible over very low distances with no break from their presence in views. An open landscape is to result in a greater likelihood of cumulative interactions between developm Conversely, landscapes with a higher degree of visual containment (e.g. due landform or vegetation such as high hedges) are likely to have higher poten visually absorb the turbines and their associated structures.	
	Data Sources:	
	North Norfolk Landscape Character Assessm	nent; Field survey; OS mapping data.
	Some indicators of lower sensitivity	Some indicators of higher sensitivity
	Enclosure provided by vegetation	 Exposed landscapes with no sense of enclosure
Scale (landform and component landscape	Developments that fit the scale of the landso pattern and individual features, will result in to developments of an appropriate size and so	lower levels of impact (landscape sensitivity
features) and landscape pattern/ complexity	Larger scale landscapes and those that lack human scale features (such as farms 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 landsc 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	Some indicators of higher sensitivity
	Large scale, uniform landscapes	Intimate and small-scale landscapes
	Absence of human scale features	 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	t levels of sensitivity to wind energy development, compared to landscapes that	
	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 sensitivity
	 Presence of larger-scale modern infrastructure, industry or housing 	 Strongly rural, tranquil areas with little or no existing settlement/built
	Commercial forestry plantations	form/human activityHistoric buildings/settlements

Time depth / historical continuity	Historic landscape types (HLTs) such as com marsh, informal parklands and pre-18 th cent to the introduction of modern built form suc historic qualities and the time depth they giv preserved archaeological evidence.	tury enclosure will have a higher sensitivity h as wind turbines, due to their strong	
	Data Sources:		
	Norfolk Historic Landscape Characterisation Aerial imagery (Google Earth)	Report and dataset (2009); OS mapping;	
	Some indicators of lower sensitivity 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 	 Presence / dominance of historic landscape types 	
Value criteria			
Presence of landscape designations and extent to which their defined special qualities could be affected	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		
	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	S Undesignated landscapes that have a high scenic quality (i.e. in aesthetic to and/or exhibit a strong character or sense of place, will be more sensitive t		
other criteria: Landscapes that contain rare elements or features or a rare Lan scenic quality, will be more sensitive than landscapes that are commonplace or notable examples of a type.			
intactness, representativene ss, nature	Landscapes that are highly intact (i.e. key c in good condition) are likely to be more sense	sitive than landscapes that are less intact.	
conservation and cultural heritage interests,	Landscapes of a particular character and/or particularly important examples are likely to are less representative of their type.		
Interests, recreational value, and associations withLandscapes that have natural or heritage conservation interest (indicated presence of wildlife, earth science or cultural designations) are likely to b sensitive than landscapes without such interests.		l designations) are likely to be more	
artists or writers.	Landscapes that are valued for leisure and recreation are likely to be more sensitive to development than landscapes that are not.		
[N.B. Above indicators relate	Landscapes that have strong associations with writers or artists may have a higher sensitivity than areas that are lacking in these links.		
to those outlined	Data Sources:		
in Box 5.1 of GLVIA3]	'Valued Features and Qualities' sections of the North Norfolk Landscape Character Assessment; Field survey; OS mapping; designated area boundaries; footpaths; imagery (Google Earth)		
	Some indicators of lower sensitivity	Some indicators of higher sensitivity	
Absence of other indicators of value across much of the landscape Presence / concentration of of indicators of value		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-scaleSolar PV energy development

Indications of relatively higher or lower	r landscape sensitivity	
Susceptibility Criteria		
 d Low-lying developments such as field-scale solar PV development will typical easily perceived in flat landscapes than on slopes, especially higher slopes, or overlooked by higher vantage points. Therefore, flat and uniform landscapes gently undulating lowland landscapes or larger plateau areas are likely to be sensitive to field-scale solar PV development than a landscape with a dramat complex landform or distinct landform features, such as ridges or valleys, or prominent rolling landform with highly visible / pronounced slopes, that cont more strongly to landscape character. Due to the limited height of solar PV panels (typically 3m), they are unlikely 		
prominent features on the skyline, except w ridgeline and subject to longer distance view	here sited on an otherwise featureless	
Data Sources:		
North Norfolk Landscape Character Assessm	ent; Field survey; OS contours	
Some indicators of lower sensitivity	Some indicators of higher sensitivity	
• Flat, uniform landform, e.g. expansive	Pronounced slopes	
·	Irregular or complex landform	
Plateau areas	Narrow valleys	
	 Distinctive landform/skyline features, e.g. ridges and glacial eskers or historic features on skylines 	
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	Some indicators of higher sensitivity	
 Previously developed/brownfield land Extensive and uniform/regular landcover (non-naturalistic) 	 Naturalistic landcover such as woodlands, rivers/streams/water bodies, salt marsh, reedbeds, orchards, meadows, heathland, unimproved or semi-improved grasslands, parkland and wood pasture 	
	teria Low-lying developments such as field-scale easily perceived in flat landscapes than on so overlooked by higher vantage points. Theref- gently undulating lowland landscapes or larges sensitive to field-scale solar PV development complex landform or distinct landform featur prominent rolling landform with highly visible more strongly to landscape character. Due to the limited height of solar PV panels prominent features on the skyline, except we ridgeline and subject to longer distance view Data Sources: North Norfolk Landscape Character Assessment Some indicators of lower sensitivity • Flat, uniform landform, e.g. expansive lowland landscapes • Plateau areas Landscapes containing existing hard surfacing developed land/brownfield sites or large-scale sensitive to industrial type developments sud which also has a perceived urban/industrial (particularly pastoral) or naturalistic landcover Naturalistic landcover elements such as wood marsh, reedbeds, orchards, meadows, heattl grasslands, parkland and wood pasture, will development. The modern arable landcover common acrosses somewhere between the above two in terms development, depending on the interplay of NB The consideration of potential impact on through the Agricultural Land Classification) assessment, although it is recognised that ticonsideration during the planning process. Data Sources: North Norfolk Landscape Character Assessment Habitat data; Aerial imagery Some indicators of lower sensitivity • Previously developed/brownfield land • Extensive and uniform/regular	

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 Assessm	nent; 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 lands pattern and individual features, will result in to developments of an appropriate size and s	n lower levels of impact (landscape sensitivity
features) and landscape pattern/ complexity	Larger scale, regular or uniform landscapes be less susceptible to the more expansive a field-scale solar PV) than small-scale intrica field sizes).	nd larger scale developments (such as
	Data Sources:	
	North Norfolk Landscape Character Assessm	nent; Field survey; OS mapping
	Some indicators of lower sensitivity	Some indicators of higher sensitivity
	Large or very large scale, uniform	• Intimate and small-scale landscapes
	landscapes, e.g. extensive arable farmland with consistent large or very large field sizes	 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 disturbance and having a perceived naturalu remoteness or traditional rurality with few r levels of sensitivity to all types of built deve a busier character, sources of human noise other development; particularly larger-scale housing, or commercial forestry.	ness), or that have a strong feel of nodern human influences tend to increase elopment compared to landscapes that have and activity or visible signs of built form or
	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 sensitivity
	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-18 th 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	Some indicators of higher sensitivity
	 Presence / dominance of historic landscape types 	 Absence of historic landscape types / dominance of modern land uses such as 20th Century intensive agriculture , urban or industrial development

Presence of landscape designations and extent to which their defined special qualities could be affected	Landscapes that are formally designated for sensitive to development than undesignated on the extent to which the special qualities affected by the development type. Areas the Coast and whose defined special qualities m have a higher sensitivity than areas outside special qualities are not likely to be negative	d areas. The degree of sensitivity depends of the designated landscape could be at are designated as an AONB or Heritage hay be adversely affected by solar PV will a designated landscape or whose defined	
	Data Sources:		
	Designated area boundaries; 'Valued Featur Norfolk Landscape Character Assessment	res and Qualities' sections of the North	
	Some indicators of lower sensitivity	Some indicators of higher sensitivity	
	Outside a landscape designation	Inside a landscape designation	
	 Defined special qualities unlikely to be adversely affected by field scale solar PV development 	 Defined special qualities likely to be adversely affected by field scale solar PV development 	
Other indicators of value not captured through	Undesignated landscapes that have a high s and/or exhibit a strong character or sense of landscapes of low scenic quality or with a w	of place, will be more sensitive than	
other criteria: scenic quality, rarity, intactness, representativene	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.		
ss, nature conservation and	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.		
cultural heritage interests, recreational	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.		
value, and associations with artists or writers.	Landscapes that have natural or heritage con presence of wildlife, earth science or cultura sensitive than landscapes without such inter	al designations) are likely to be more	
[N.B. Above indicators relate	Landscapes that are valued for leisure and recreation are likely to be more sensitive to development than landscapes that are not.		
to those outlined in Box 5.1 of	Landscapes that have strong associations with writers or artists may have a higher sensitivity than areas that are lacking in these links.		
GLVIA3]	Data Sources:		
	'Valued Features and Qualities' sections of t Assessment; Field survey; OS mapping; des imagery (Google Earth)		
	Some indicators of lower sensitivity	Some indicators of higher sensitivity	
	Areas with a low scenic quality	Areas with a high scenic quality, that	
	 No particularly rare or important types of landscape or features 	exhibit a rare type of landscape/ features or landscape / features are considered a particularly important	
	Could be in poor condition	example	
	 Likely to have a low density of presence of wildlife, earth science or 	Areas that are intact	
	cultural designations, or lack such designations	 Areas that have a high density of presence of wildlife, earth science or cultural designations 	
	 Not likely to be valued for recreation or have associations with writers or artists 	Landscapes that are valued for recreation	
		Landscapes that have strong	

Onshore Cable Routes (for offshore wind farms)

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

Criteria	Indications of relatively higher or lower landscape sensitivity	
Susceptibility Cr	iteria	
Topography and skylines	The clearance of vegetation associated with onshore cable routes will typic easily perceived in flat landscapes than on visible slopes, especially higher where overlooked by higher vantage points. Therefore, flat and uniform la smooth, gently undulating lowland landscapes or larger plateau areas are less susceptible to the laying of onshore cable routes than landscapes with complex landforms or distinct landform features such as ridges or valleys rolling hills with highly visible / pronounced slopes. These effects will dimin time as landcover redevelops, but there is potential for longer-lasting imp- widely visible locations.	
	Data Sources:	
	North Norfolk Landscape Character Assessn	nent; Field survey; OS maps and contours
	Some indicators of lower sensitivity	Some indicators of higher sensitivity
	Flat, expansive lowland landscapesPlateau areas	 Pronounced slopes Irregular or complex landform Narrow valleys Distinctive landform features, e.g. ridges and glacial eskers
Landcover	Previously developed land or brownfield sites are likely to be less sensitive to the open 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 Previously developed/brownfield land Modern, large-scale arable landcover 	 Some indicators of higher sensitivity Naturalistic 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 Assessn	nent; Field survey

	Some indicators of lower sensitivity	Some indicators of higher sensitivity
	 A semi-enclosed landscape with features such as hedgerows and shelter belts that could help filter/ screen views 	 An open landscape with no features to filter views of the open cut trenching
Sense of tranquillity, remoteness and rurality; current level of human	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.	
influence/ development	Data Sources:	
	North Norfolk Landscape Character Assessm tranquillity and dark skies data; Undevelope Integrated Landscape Character Guidance	
	Some indicators of lower sensitivity	Some indicators of higher sensitivity
	Presence of human activity	Absence of human activity
Time depth / historical continuity	Historic landscape types (HLTs) such as commons, unimproved intertidal or marine marsh, informal parklands and pre-18 th century enclosure will have a higher sensitivi 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	Some indicators of higher sensitivity
	 Presence / dominance of historic landscape types 	 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	Some indicators of higher sensitivity
	Outside a landscape designation	Inside a landscape designation
	 Defined special qualities unlikely to be permanently adversely affected by laying 	
	cable routes	be permanently adversely affected by laying of cable routes
Other indicators of value not captured through	lue not 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. - criteria: c quality, be more sensitive than landscapes that are commonplace or not particularly not	
other criteria: scenic quality, rarity, intactness,		

representativene ss, nature conservation and cultural heritage interests, recreational value, and associations with artists or writers.	Landscapes that are highly intact (i.e. key chain good condition) are likely to be more sensit Landscapes that have natural or heritage conspresence of wildlife, earth science or cultural or sensitive than landscapes without such interest Landscapes that are valued for leisure and rec development than landscapes that are not. Landscapes that have strong associations with sensitivity than areas that are lacking in these	ive than landscapes that are less intact. servation interest (indicated by the designations) are likely to be more sts. creation are likely to be more sensitive to n writers or artists may have a higher
[N.B. Above indicators relate to those outlined in Box 5.1 of GLVIA3]	Data Sources: 'Valued Features and Qualities' sections of the Assessment; Field survey; OS mapping; desig 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 TypeDevelopments (incorporating Anaerobic Digestion Plants, Sub-Stations and CableRelay Stations for offshore windfarms, and Commercial Battery Storage Schemes)

Iandscapes with non-prominent or unremarkable skylines. Data Sources: North Norfolk Landscape Character Assessment; Field survey Some indicators of lower sensitivity • Non-prominent skylines 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 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 • Naturalistic landcover Sense of openness/ enclosure Landscapes of open and exposed character would have a higher sensitivity to industria type developments due to the lack of visual screening, and lesser opportunities for screening mitigation without changing character. Converselv, 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 • Naturalistic landcover Landscapes of open and exposed character Assessment; Field survey Some indicators of lower sensitivity Some indicators of lower sensitivity • Natural	Criteria	Indications of relatively higher or lower l	andscape sensitivity
skylines Iandmark features, are likely to be more sensitive to industrial type developments that indscapes with non-prominent or unremarkable skylines. Data Sources: North Norfolk Landscape Character Assessment; Field survey Some indicators of lower sensitivity • Prominent, undeveloped skylines 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 arcoss 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 • Note Norfolk Landscape Character Assessment; Field survey; Priority Habitat data; Aerial imagery 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 • Open and exposed landscape wi	Susceptibility Criteria		
North Norfolk Landscape Character Assessment; Field survey Some indicators of lower sensitivity Some indicators of higher sensitivity • Non-prominent skylines • Prominent, undeveloped skylines 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 or hauralistic landscape The arable landscover 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 Sense of open and exposed character would have a higher sensitivity to industria 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 Scale (landform and component landscape are likely to higher sensitivity • Naturalistic landscape will result in lower levels of inger. Larger scale landscapes are likely to have a lower sensitivity to these features than more intimate small scale landscapes. Scale (landform and component landscape intintee small scale landscapes. • Open and expose		landmark features, are likely to be more sensitive to industrial type developments than	
Some indicators of lower sensitivity Some indicators of higher sensitivity Some indicators of higher sensitivity Image:		Data Sources:	
• Non-prominent skylines sensitivity • Non-prominent skylines sensitivity • Prominent, undeveloped skylines • 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 set 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 • Naturalistic landcover Sense of open and exposed character would have a higher sensitivity to industria 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 Scale (landform and component and component and the hedgeroes / shelter betts / woodland Some indicators of higher sensitivity on lower sensitivity in lower levels of impact. Larger scale landscapes are likely to have a lower sensitivity to these features than more intimate small scale landscapes. Scale (landform and component landscape in the scale of the landscape will result in lower levels of impact. Larger scale landscapes are like		North Norfolk Landscape Character Assessme	nt; Field survey
Landcover Prominent, undeveloped skylines Landmark (historic) skyline features 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 Some indicators of higher sensitivity North Norfolk Landscape Character Assessment; Field survey; Priority Habitat data; Aerial imagery Some indicators of lower sensitivity North Norfolk Landscape of open and exposed character would have a higher sensitivity to industria 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 More enclosed landscape, perhaps as a result of higher hedgerows / shelter belts / woodland Open and exposed landscape will result in lower levels of impact. Larger s		-	_
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 • Naturalistic landcover Sense of openness/ enclosure Landscapes of open and exposed character would have a higher sensitivity to industria 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 • More enclosed landscape, perhaps as a result of higher hedgerows / shelter belts / woodland Scale (landform and component landscape are likely to have a lower sensitivity to these features than more intimate small scale landscapes. • Open and exposed landscape with little opportunity for screening more intimate small scale landscapes. Scale (landform and component landscape are likely to have a lower sensitivity to these features than more intimate small scale		· · · · · · · · · · ·	Prominent, undeveloped skylines
brownfield sites) are likely to be less sensitive to these types of developments which have a perceived uptan/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 industria type developments due to the lack of visual screening, and lesser opportunities for screening mitigation without changing character. Conversely, landscapes with a higher higher potential to visually absorb such development. Data Sources: North Norfolk Landscape Character Assessment; Field survey Some indicators of lower sensitivity • More enclosed landscape, perhaps as a result of higher hedgerows / shelter belts / woodland Some indicators of higher sensitivity • Open and exposed landscape with little opportunity for screening Scale (landform landscape features) and landscape features) and landscape pattern/ complexity Developments that fit the scale of the landscape will result in lower levels of impact. Large scale landscapes are likely to have a lower sensitivity to these features than more intimate small scale landscapes. Some indicators of lower sensitivity • Large scale landscapes Some indicators of higher sensitivit			Landmark (historic) skyline features
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• Large scale landscapes	complexity	Some indicators of lower sensitivity	-
Intimate and small-scale landscape		Large scale landscapes	-
			 Intimate and small-scale landscapes

Sense of tranquillity, remoteness and rurality; current level of human influence/ development	lity, disturbance and having a perceived naturalness), or that have a strong remoteness or traditional rurality with few modern human influences will increased sensitivity to industrial type developments compared to lands have a busier character, sources of human noise and activity or visible se/ form or other development.	
	Some indicators of lower sensitivity	Some indicators of higher
	Industrial / urban areas	sensitivity
	Settled farmland	 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 mari marsh, informal parklands and pre-18 th century enclosure will have a higher sens 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 Re	eport and dataset (2009); Field survey
	Some indicators of lower sensitivity	Some indicators of higher sensitivity
	 Presence / dominance of historic landscape types 	 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 th 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	Some indicators of higher
	Outside a landscape designation	sensitivity
	 Defined special qualities unlikely to be adversely affected by the above industrial type developments 	 Inside a landscape designation Defined special qualities likely to be adversely affected by the above industrial type developments
Other indicators of value not captured through	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.	
other criteria: scenic quality, rarity, intactness,		

representativene ss, nature	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.	
conservation and cultural heritage interests, recreational	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.	
value, and associations with	Landscapes that are valued for leisure and rec development than landscapes that are not.	reation are likely to be more sensitive to
artists or writers.	Landscapes that have strong associations with sensitivity than areas that are lacking in these	, 5
[N.B. Above	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)	
indicators relate to those outlined in Box 5.1 of GLVIA3]		
	Some indicators of lower sensitivity	Some indicators of higher
	Areas with a low scenic quality	sensitivity
	No particularly rare or important types of landscape or features	 Areas with a high scenic quality, that exhibit a rare type of landscape/ features or landscape /
	A landscape assessed as being in poor condition	features are considered a particularly important example
	• Likely to have a low density of presence	Areas that are intact
	of wildlife, earth science or cultural designations, or lacking such designations	 Areas that have a high density of presence of wildlife, earth science or cultural designations
	 Not likely to be valued for recreation or have associations with writers or artists 	 Landscapes that are valued for recreation
		 Landscapes that have strong associations with writers or artists

Reservoirs

Criteria	Indications of relatively higher or lower l	andscape sensitivity							
Susceptibility Cr	iteria								
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	Some indicators of higher sensitivity							
	 Landscapes containing valleys, bowls and 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 sensitivity							
	 Previously developed/brownfield land 	Naturalistic 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 Landscapes with a sense of enclosure 	Some indicators of higher sensitivity							
Scale (landform and component landscape features) and landscape pattern/ complexity	d componentlandscape pattern and individual features, will result in lower levels of impact (lan sensitivity to developments of an appropriate size and scale will be lower). Larger landscapes are likely to have a lower sensitivity to reservoirs of this size (2–5 hectares) than smaller scale landscapes.ttern/Landscapes with a naturalistic pattern are likely to have a higher sensitivity due to landscapes with a naturalistic pattern are likely to have a higher sensitivity due to								

	North Norfolk Landscape Character Assessment; Field survey; OS data									
	Some indicators of lower sensitivity	Some indicators of higher sensitivity								
	Large scale and regular landscapes	• 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 sensitivityBusy landscapes with sources of human	Some indicators of higher sensitivity								
	noise and activity	 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-18 th 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 higher								
	Some indicators of lower sensitivity	_								
	 Some indicators of lower sensitivity Presence / dominance of historic landscape types 	sensitivity								
Value criteria	Presence / dominance of historic	 sensitivity Absence of historic landscape types / dominance of modern land uses such as 20th Century intensive agriculture , urban or industrial 								
Value criteria Presence of landscape designations and extent to which their defined special qualities could be affected	Presence / dominance of historic	 sensitivity Absence of historic landscape types / dominance of modern land uses such as 20th Century intensive agriculture , urban or industrial development meir scenic quality indicate areas of rity depends on the extent to which the ould be affected by the development r Heritage Coast and whose special birs will have a higher sensitivity than 								
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Presence of landscape designations and extent to which their defined special qualities	 Presence / dominance of historic landscape types Landscapes that are formally designated for the higher landscape value. The degree of sensitive special qualities of the designated landscape of type. Areas that are designated as an AONB of qualities may be adversely affected by reserved areas outside a designated landscape or whose to be negatively impacted. Data Sources: Designated area boundaries; 'Valued Features Norfolk Landscape Character Assessment Some indicators of lower sensitivity 	 sensitivity Absence of historic landscape types / dominance of modern land uses such as 20th Century intensive agriculture , urban or industrial development meir scenic quality indicate areas of rity depends on the extent to which the rould be affected by the development r Heritage Coast and whose special birs will have a higher sensitivity than e defined special qualities are not likely 								
Presence of landscape designations and extent to which their defined special qualities	 Presence / dominance of historic landscape types Landscapes that are formally designated for the higher landscape value. The degree of sensitive special qualities of the designated landscape of type. Areas that are designated as an AONB of qualities may be adversely affected by reserved areas outside a designated landscape or whose to be negatively impacted. Data Sources: Designated area boundaries; 'Valued Features Norfolk Landscape Character Assessment 	 sensitivity Absence of historic landscape types / dominance of modern land uses such as 20th Century intensive agriculture , urban or industrial development meir scenic quality indicate areas of rity depends on the extent to which the rould be affected by the development r Heritage Coast and whose special birs will have a higher sensitivity than e defined special qualities are not likely and Qualities' sections of the North Some indicators of higher 								

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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; Aeria imagery (Google Earth)							
ower sensitivity	Some indicators of higher sensitivity						
e or important types of res ondition w density of presence	 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 						
c c lu v	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-H)	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.

Summary of Results

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**.
- 5.2 **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.
- 5.4 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 wind	scale	Mediu scale		Small wind	scale	Solar	PV	Onsho cable routes		Indus type o		Reser	voir
	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
Coastal Plain	н	н	мн	н	м	н	М	н	LM	МН	М	н	М	МН
Coastal Shelf	Н	н	н	Н	мн	Н	мн	Н	мн	мн	мн	Н	МН	МН
Drained Coastal Marshes		н		Н		Н		н		н		н		н
Low Plains Farmland	Н		мн		М		м		м		М		М	
Open Coastal Marshes		Н		Н		Н		H		H		H		н
Rolling Heath & Arable		Н		Н		Н		H		МН		H		МН
Rolling Open Farmland	Н	Н	МН	Н	М	Н	МН	Н	М	МН	Μ	Н	Μ	МН
River Valleys	н	Н	н	Н	МН	Н	Н	Н	МН	Н	ΜН	Н	МН	Н
Settled Farmland	н		МН		М		М		М		М		М	
Tributary Farmland	н	н	МН	н	М	н	МН	Н	М	МН	М	Н	М	мн
Wooded Ridge	н	н	н	н	МН	н	МН	Н	МН	Н	МН	Н	МН	Н

5.5 In the case of any of the types of development listed above, due regard should of course be given to the impact of the development on adjacent Landscape Types, both within NNDC District and in neighbouring Local Authority Areas.

Observations on Landscape Sensitivity to Wind Energy Development

- 5.6 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.
- 5.7 **Figures 5.1-5.3** show the results of the landscape sensitivity assessment for the three scales of wind turbines assessed.
- 5.8 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.
- 5.9 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).
- 5.10 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.
- 5.11 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

- 5.12 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.
- 5.13 **Figure 5.4** shows the results of the landscape sensitivity assessment for field scale solar PV developments.
- 5.14 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.
- 5.15 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.

- 5.16 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.
- 5.17 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

- 5.18 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).
- 5.19 **Figure 5.5** shows the results of the landscape sensitivity assessment for onshore cable routes.
- 5.20 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).
- 5.21 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.
- 5.22 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

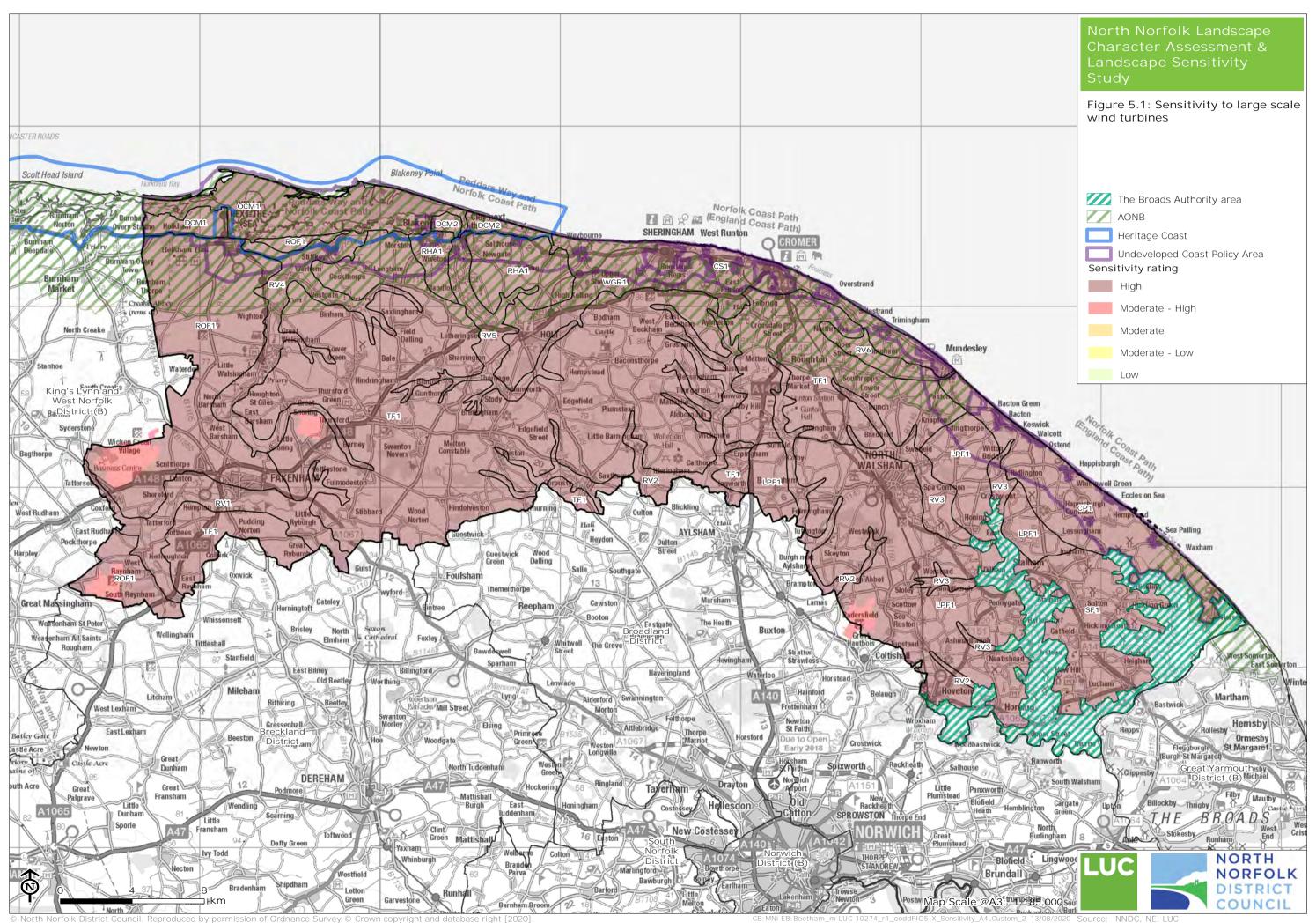
- 5.23 Industrial type developments such as commercial battery storage, anaerobic digestion plants, cable relay stations and sub-stations (for offshore wind farms) result in an increase in the perceived human influence. It is important to ensure a landscape can accommodate such developments by virtue of its topography, scale, landcover and ability to screen such development.
- 5.24 **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).
- 5.25 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

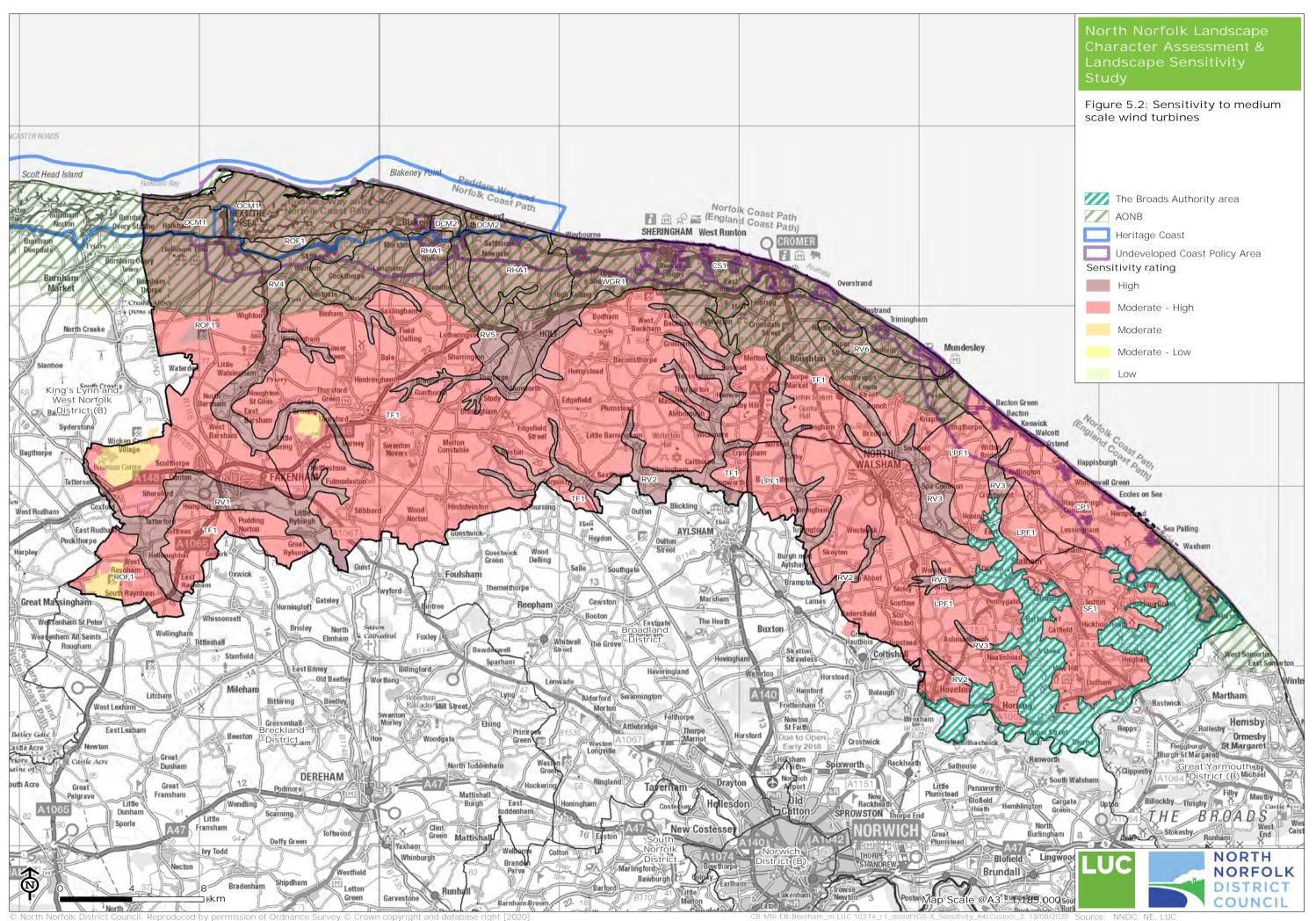
are associated with existing farm complexes containing larger-scale built form, such as storage sheds, and locations with higher visual screening/containment by planting or landform.

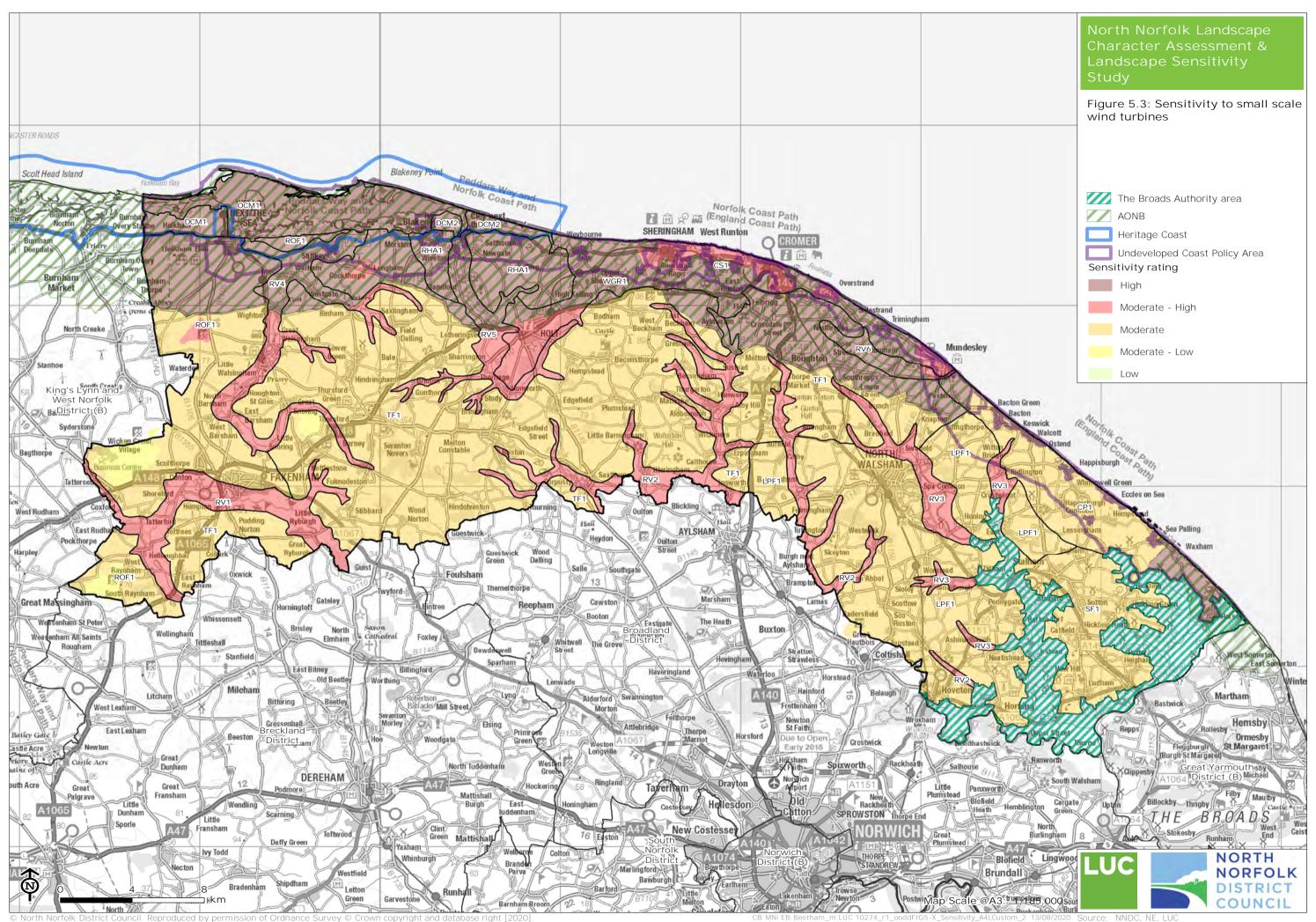
- 5.26 In the Norfolk Coast AONB and Heritage Coast, where the tranquil and undeveloped nature of the landscape is a special quality of the landscape, sensitivity is high. The part of the 'Undeveloped Coast' that falls outside the AONB (i.e. the strip that occurs along the Coastal Plain LCT) has a moderate sensitivity to these types of development.
- 5.27 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**).

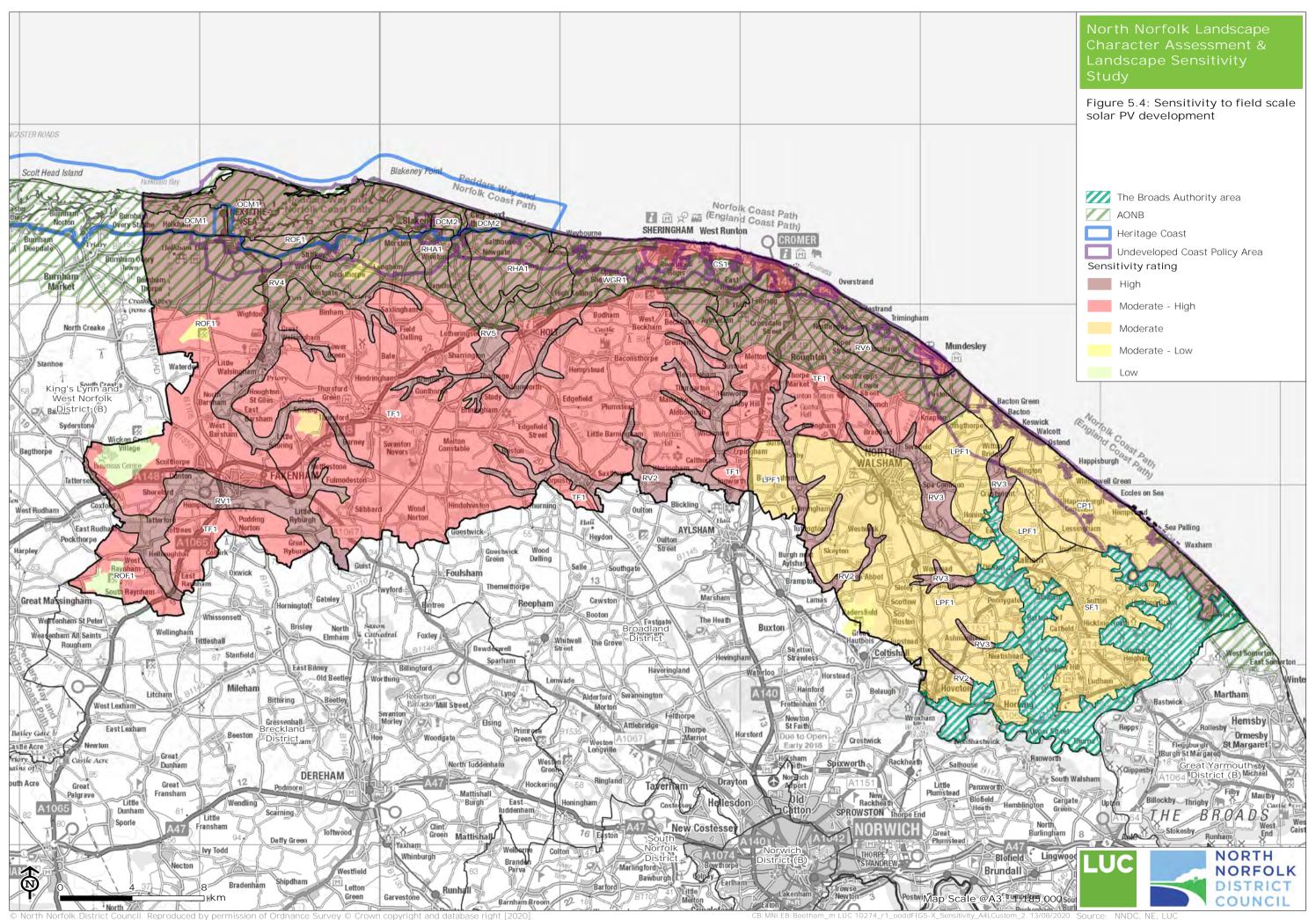
Observations on Landscape Sensitivity to Reservoirs

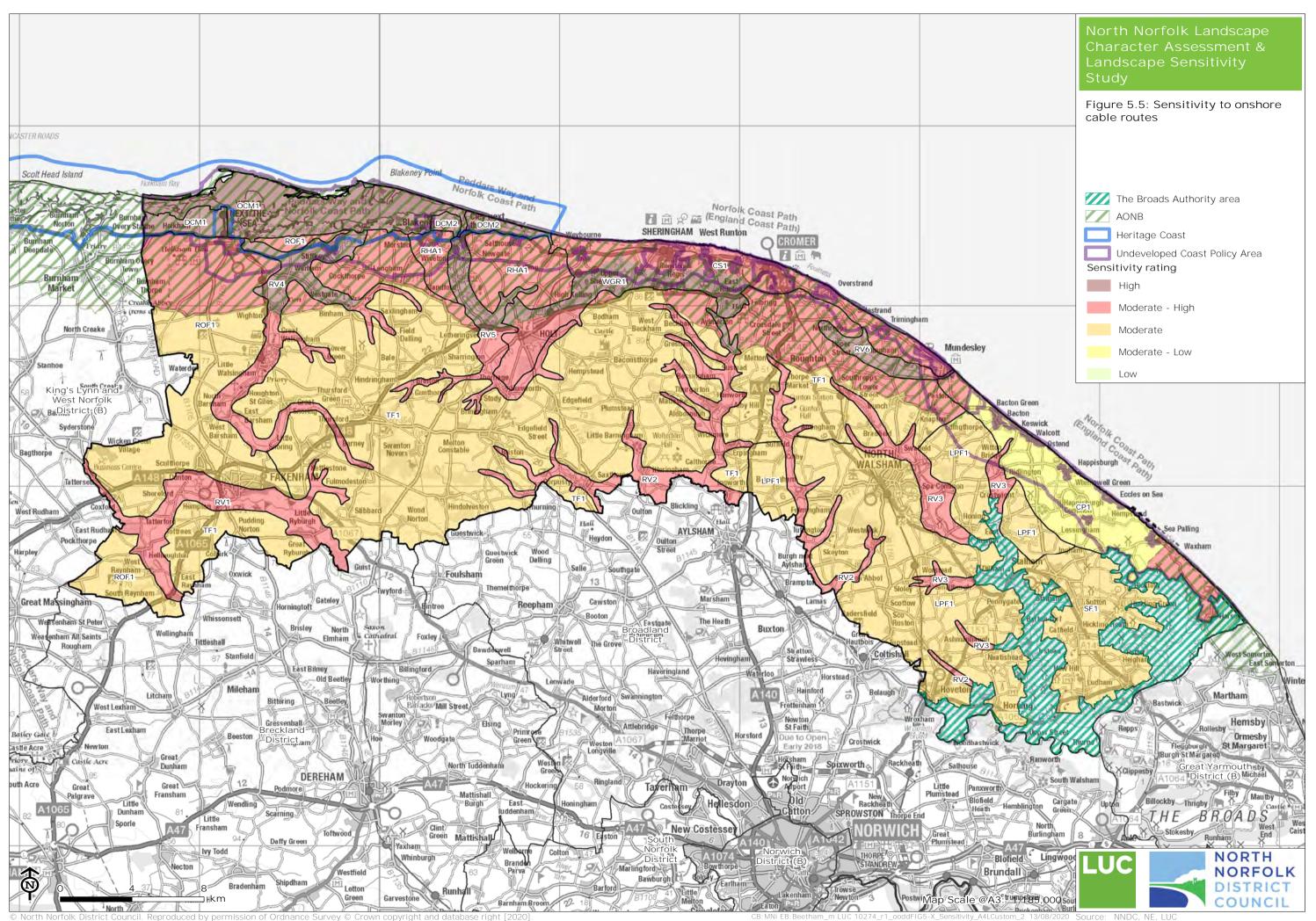
- 5.28 Man-made reservoirs, especially those with engineered steep banks, introduce man-made elements to the landscape and can affect naturalistic and undeveloped qualities of more remote landscapes. It is important to ensure a landscape can accommodate such developments by virtue of its topography, landcover and perceptual character.
- 5.29 **Figure 5.7** shows the results of the landscape sensitivity assessment for reservoir development of 2-5ha.
- 5.30 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.
- 5.31 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**).



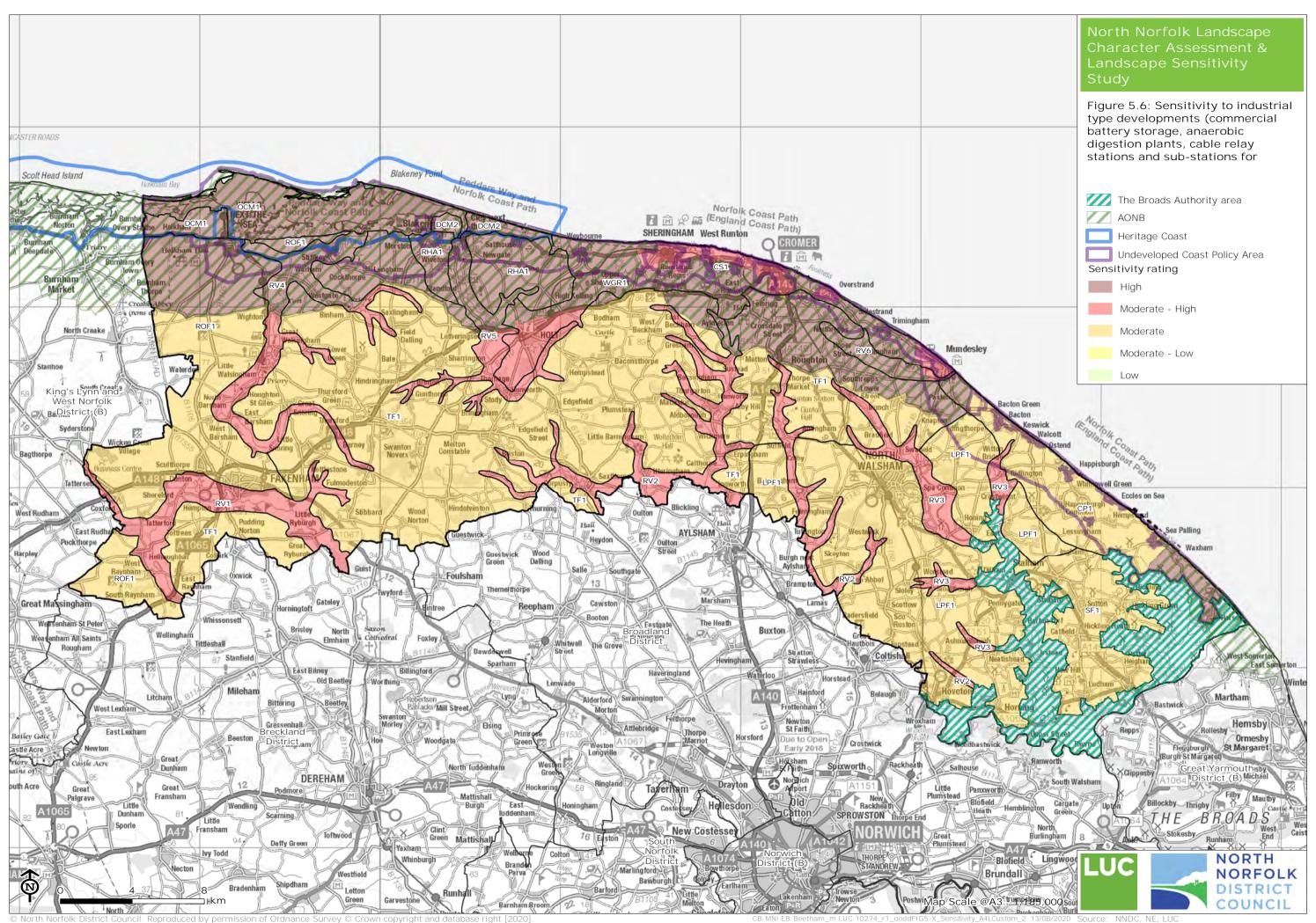


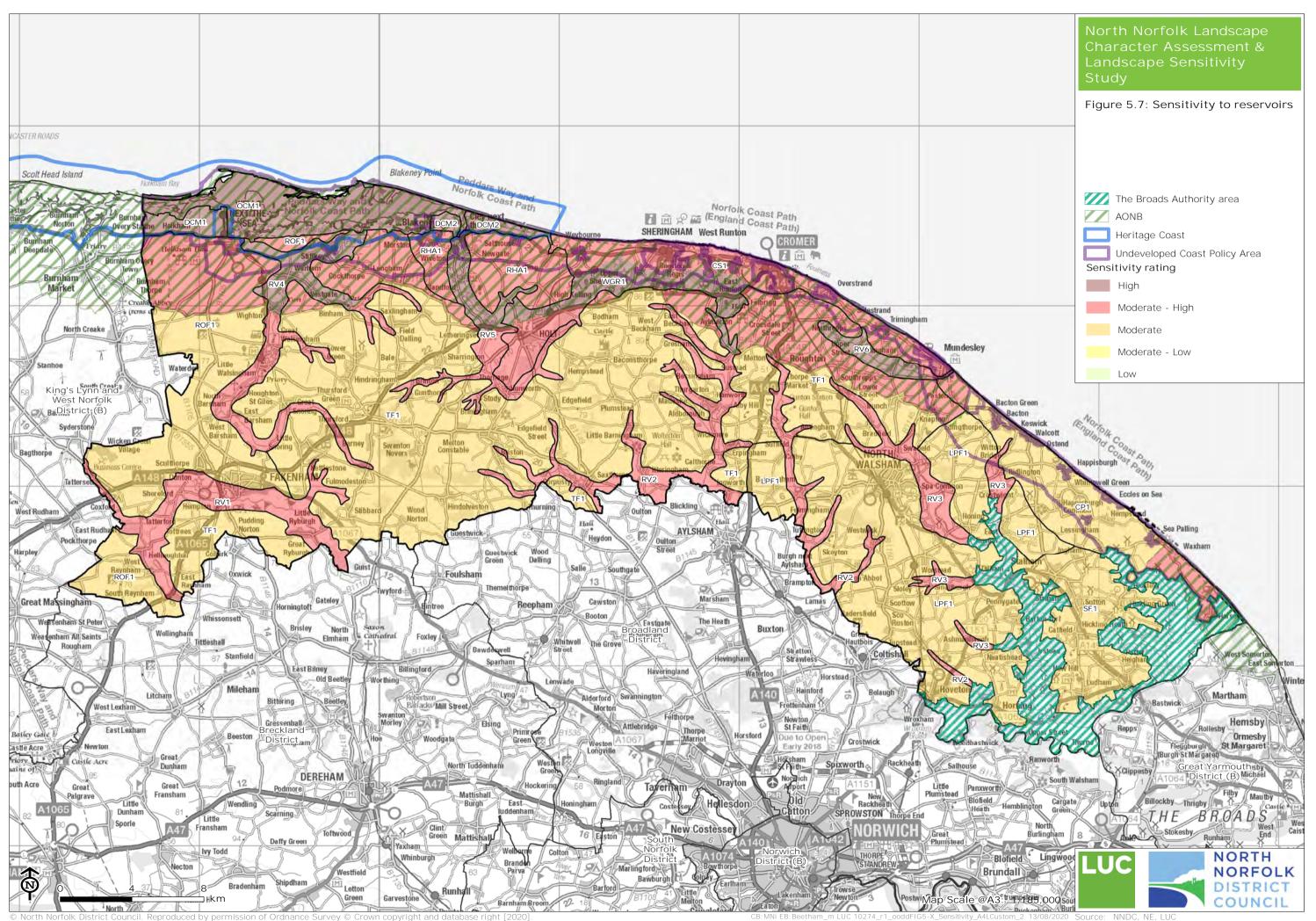






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Summary of Landscape Sensitivity across Airfields

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

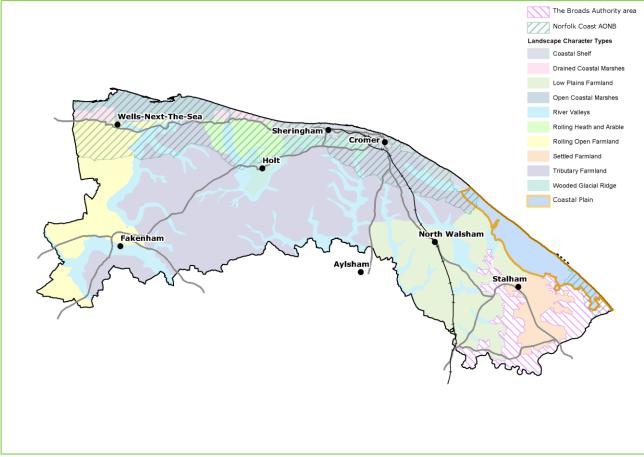
Airfield (LCT)	Large scale wind	Medium scale wind	Small scale wind	Solar PV	Onshore cable routes	Industrial type dev	Reservoir
Coltishall (LPF)	МН	МН	М	LM	LM	LM	LM
Langham (TF)	Н	Ŧ	МН	М	М	МН	м
Little Snoring (TF)	МН	М	LM	М	LM	М	М
North Creake (ROF)	Н	н	МН	LM	LM	М	М
Sculthorpe (ROF)	MH	М	LM	L	L	L	L
West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

- 5.32 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.
- 5.33 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

Coastal Plain





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

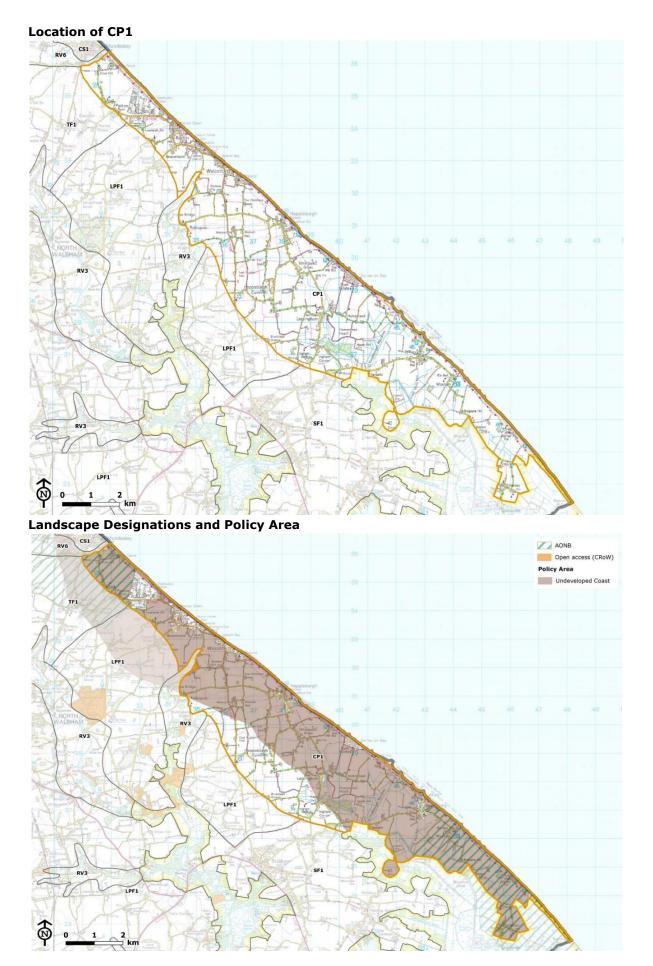
Key Characteristics¹¹

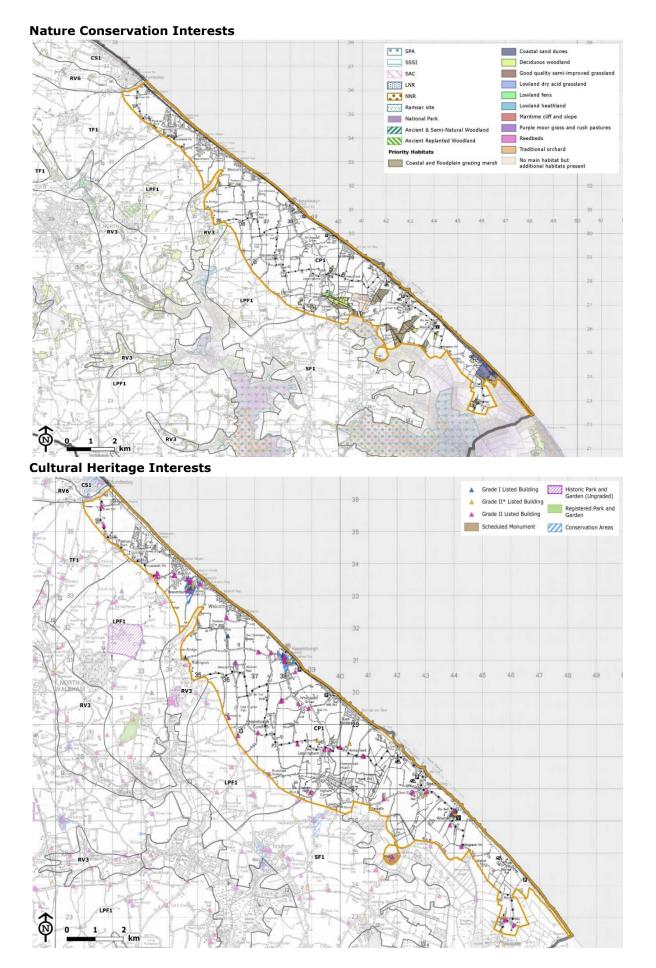
- Flat or very flat terrain, with some minor but noticeable undulations
- An eroding coastal edge comprising low cliffs along the northern stretch, including the nationally significant Mundesley Cliffs SSSI and coastal dunes to the south, both of which are Priority Habitats
- A rural landscape in which 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

 $^{^{11}}$ Detailed information about landscape character and valued features is set out in the North Norfolk Landscape Character Assessment (2018)





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	tes generally e sensitivity to relopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		*
Sensi Crite	itivity ria	Characteristics of t	he LCT			of high velopn			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
Susce	eptibility	y Criteria										
Topo <u>c</u> & sky	Jraphy lines	The major exception skylines is the Bactor which includes tall te are dominant feature wide area. The flat I sensitivity to wind tu solar PV developmen routes, whilst increas	or rises (up to 10m cally the site of d farmsteads. ed skylines ted by historic otably church towers. to the undeveloped in Gas Terminals site, lecom masts which es in views over a andform reduces rbines, field-scale t and onshore cable sing sensitivity to kments are less easily landscape. of taller structures is counterbalanced eveloped skylines s landmark features,				Ţ					Î
Landc	over	Predominantly arable limited pasture assoc settlement or along t low woodland cover to Two distinct areas of landcover exist in the CP1: An inland areas fringes, including coa grazing marsh, carr fens and reedbeds; a strip of coastal sand adjacent grazing mar	tiated with the coastal edge, and throughout the Type. more naturalistic e southern part of around the Broads astal and floodplain woodland, lowland and a long, narrow dunes, with some					Ţ				

increa	utes generally se sensitivity to evelopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		×
Sensitivity Criteria	Characteristics of	the LCT		ators o ach de	-	-	ver sus vpe	ceptib	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
	between Eccles-on-S The dominant arable the middle of the set for the majority of d except for onshore of sensitivity is reduced landcover is able to temporary laying pho of more naturalistic higher sensitivity to types.	a landcover lies in histivity spectrum evelopment types, able routes where d as this type of recover from the ase. Localised areas andcover will have									
Sense of openness/ enclosure	A very open and win with large fields bou and/or banks, often resulting in a strong and lack of visual screening/containme sensitivity to any ne	nded by ditches without a hedge sense of openness ent, which increases	1	Î	Î	Î	ſ	ſ	Î	Î	1
Scale (landform and component features), landscape pattern & complexity	scale and expanse of However, the preservillages, coastal holio rural lanes, windmill farmsteads also intro- features which incre- larger scale developed larger wind energy of larger solar farms ar Overall, these scale other out for the larged solar farms and reserves	from large to small pasture fields we older settlements. very flat landform, and and low banks increase the apparent of the landscape. The landscape. The of vernacular day homes, narrow is and frequent oduces human-scale ase sensitivity to ments such as the levelopments or and reservoirs. factors balance each ger scale r wind turbines, rvoirs). The varied be does not influence					*				

KEY	increas	e sensitivity to relopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		*
Sens Crite	itivity ria	Characteristics of t	he LCT		ators o ach de	_			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
		scale turbines and ca battery storage or AE										
remot ruralit level huma influe Undev	uillity/ teness/ ty & of n	There are some stron these attributes betw developed parts of th wider area around Ba busier, less tranquil of scale infrastructure, a remote southern part together with large a farmland. The undew coastline which is with has a greater sense of the undeveloped cha sense of tranquillity, traditional rurality wh majority of the area the presence of the U policy area) results in sensitivity to all form under consideration.	veen the more the coast (e.g. the facton), which have a character and large and the more of the area, reas of quiet inland veloped southern hin the AONB also of wildness. Overall, racter, relative remoteness and hich prevails in the (also recognised by Undeveloped Coast in increased	1								
Time histor contir		Historic landscape ty are dominated by 20 agricultural enclosure time depth. Other ty smaller areas of 17 th rectilinear grazing ma bordering the Broads freshwater fen adjace dunes around Horsey greater time depth a continuity. Overall, t modern agricultural f the area decreases so forms of development consideration.	th century es, which have little pes present include – 20 th century arsh, in the parts , and unimproved ent to the coastal r, which will have a and historical the predominant armland throughout ensitivity to all	Ţ							Ţ	

incre	butes generally ease sensitivity to development type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	ience			ion/ opment oplicable		≫
Sensitivity Criteria	Characteristics of t	the LCT		ators o ach de	-	-		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
Value Crite	eria										
Presence of landscape designation and extent to which their specia qualities could be affected	the Norfolk Coast AO northern end of the Bacton Gasworks) ar part from Sea Palling boundary south of He part of the Type also (Broads Authority Ex Any of the types of d consideration in this potential to affect the special qualities to so particular the undeve character, sense of m tranquillity and wildn	NB: The far Type (Mundesley to ad the far southern to the District orsey. The southern borders the Broads ecutive Area). levelopment under study have the e AONB's defined ome extent, in eloped coastal emoteness, tess (and dark skies), bitats and the strong l links between land the presence of ed landscapes to all forms of		1	1	ſ	ſ	1		1	1
Other indicators o value	The landscape outsid a generally moderate virtue of the combina stretches of coastline settlements and the rurality inland, which by the large-scale, fl farmland with limited woodland, and the pi century coastal ribbo the dominant industr Terminals. <u>Representativeness:</u> The majority of the L typical arable farmlan	e scenic quality by ation of scenic e, historic vernacular sense of traditional n is counterbalanced at and regular arable d hedgerows and resence of 20 th on development and ry at Bacton Gas									
	The majority of the L typical arable farmla	nd, although the coastal sand dunes is							-	-	

KEY	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity the development ty	to	strong	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		≫
Sens Crite	itivity ria	Characteristics of t	he LCT		ators o ach de	-	-		sceptib	oility ar	nd valı	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
		increases sensitivity	in that localised area.									
		Rarity: There are few rare la present (e.g. coastal marsh and freshwate these could be avoide	dunes, grazing r fen) and therefore	-					_		-	-
		Intactness: Intactness of the land adversely affected by intensive agriculture hedgerow removals, where hedgerows hav maintained, which re	 20th century and associated coupled with areas ve not been 	Î	Ţ	Ţ	Ļ	ſ	Ţ	Ţ	ſ	ſ
		Nature conservation interests: Heritage assets are in this landscape, but d notable buildings, sur and Paston Great Ban windmills, farmhouse Conservation Areas (Bacton) and Schedule Sensitivity will be inc to these features.	nfrequent throughout o include some ch as the Waxham rns, churches, es and several Happisburgh, ed Monuments.	-					_		-	_
		The majority of the L any nature conservat however, there is a c far south of the area, Winterton-Horsey Du and the Great Yarmo SPA. There is also a at Paston Great Barn important bat popula relating to the cliffs a Happisburgh.	tion designations; oncentration in the , comprising the nes SAC and SSSI, uth North Denes small, discrete SAC , designated for its tion, and two SSSIs	-							-	_
		Therefore, the preser conservation designa strongly influence set direction across the r except in proximity to noted above.	tions does not nsitivity in either najority of the LCT,									

KEY	increas	tes generally e sensitivity to relopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ tivity in tion	lence	-		ion/ opment oplicabl		≍
Sensi Crite	itivity ria	Characteristics of t	he LCT		ators (ach de	-	-	ver su: /pe	sceptib	oility a	nd valı	ы
				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:The LCT is served by a higher than average number of PRoWs, comprising a network of linked footpaths and bridleways including the Norfolk Coast Path, making the area particularly accessible. Small, isolated areas of Open Access Land (commons) are scattered across the LCT, and several recreational routes and other PRoWs cross the LCT, including a very short section of the Norfolk Coast Path where the LCT meets the coast around Morston, but recreational use tends to be more focussed in the adjacent coastal LCTs.		1	1	Î	1	1	1	1	1	1
		<u>Literary / artistic ass</u> There are no known f literary/artistic assoc	famous	-	_		—	-	—	_	—	-
		Coastal Plain landsca										

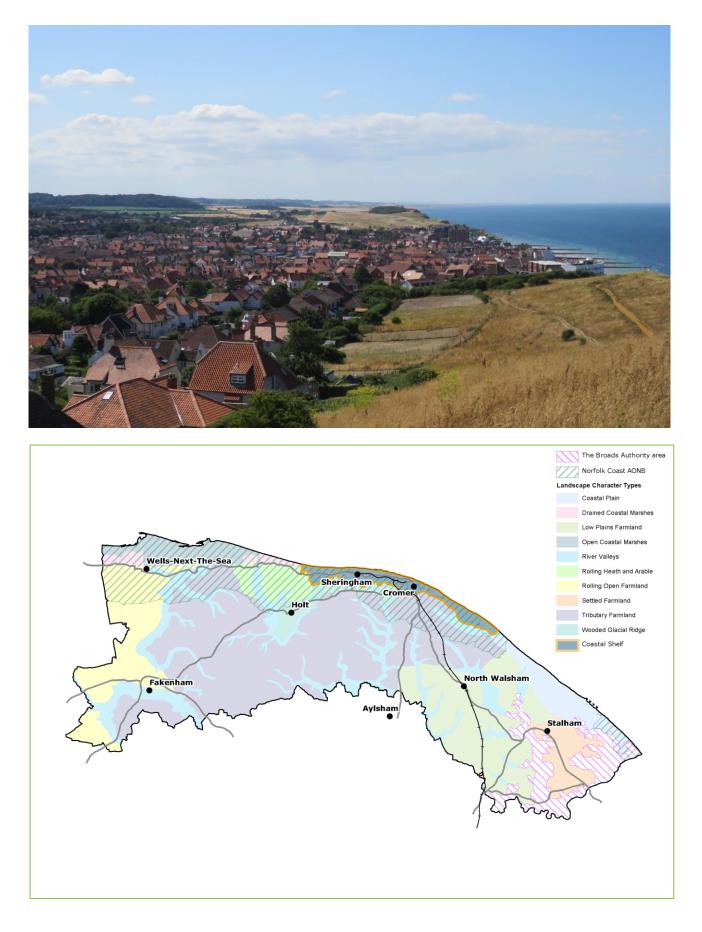
Overall sensitivity to different development types

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)	ουτ	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 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).	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 large scale wind turbines.	High
Medium scale wind turbines, (up to 60m hub height)	OUT	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)	OUT	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 . 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.	Moderate

	7.8.	In addition to the above, the landscape within the AOND is undersigned by the	
	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)	Ουτ	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
	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 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)	Ουτ	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 – 8 ha)	OUT	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. 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 provisity to cultural beitage accest curch as Concervation Areas and listed	Moderate
		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 .	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.	
	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

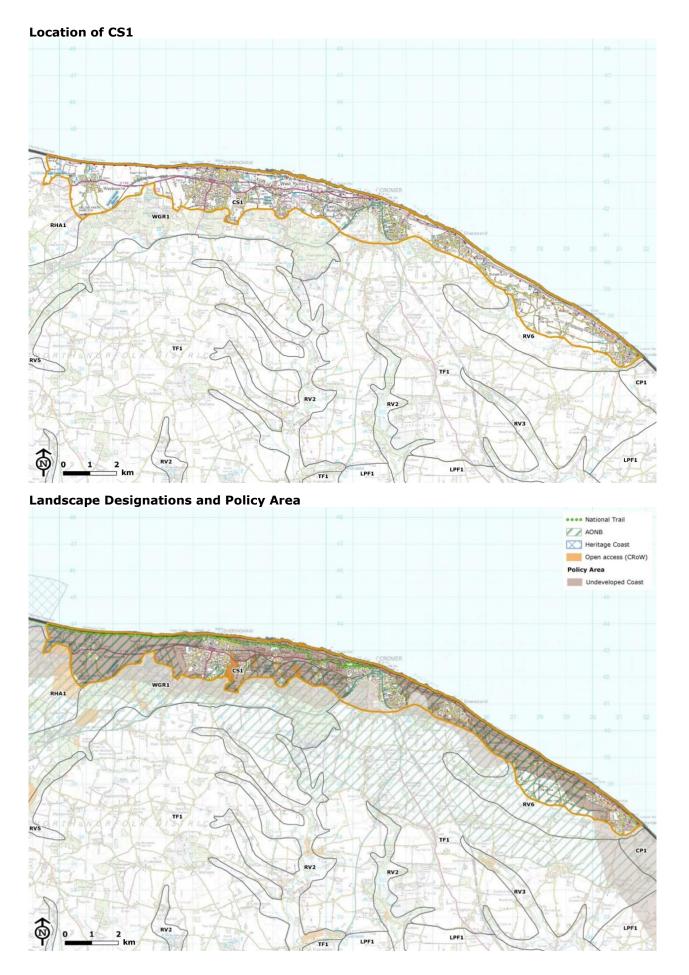
Key Characteristics¹²

- 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

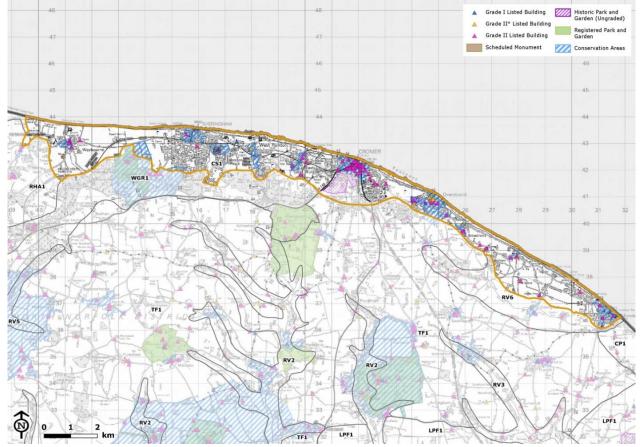
¹² Detailed information about landscape character and valued features is set out in the North Norfolk Landscape Character Assessment (2018)



Nature Conservation Interests



Cultural Heritage Interests



Landscape Sensitivity Evaluation

Criteria Appraisal

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	increas	e sensitivity to elopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		≍
Sensi Crite	itivity ria	Characteristics of t	he LCT			of high velopn			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
Susce	eptibility	/ Criteria										
Topog & skyl	graphy lines	The general topograp irregular and undulat intimate areas often another by fingers of formed of superficial reaching towards the landform often rises scarp slope of the Cro- whereas there are dis relatively flatter (but alongside the coast, i isolated coastal hills Despite the concentra- skylines throughout t generally undevelope wooded backdrop of which encloses views on the horizon in view coast. There are ma features which punct including numerous p towers, such as those Weybourne and Bees Weybourne windmill lighthouse. Modern of almost entirely low-rr prominent on the sky exceptions being one which is prominent o above West Runton, Dome. The irregular and div includes distinct featu Cromer Ridge, and so slopes, together with	ing, resulting in screened from one higher land, glacial deposits, coast. Inland, the sharply towards the omer Ridge, screte areas of not flat) land in between the and 'bumps'. ation of settlement, the LCT are ed, formed by the the Cromer Ridge, inland, and the sea ws towards the ny historic landmark uate the skyline, prominent church e at Cromer, iton Regis, the and the Cromer development is ise and/or not vline; the main e telecoms mast, n the wooded ridge and the Trimingham erse landform, which ures such as the pronounced	ſ	ſ	ſ	Î	ſ	ſ	ſ	ſ	Ţ

increa	utes generally se sensitivity to evelopment type	Attributes generally decrease sensitivity the development ty	to	strong	utes do gly influ ivity in ion	lence			ion/ opment oplicabl		\times
Sensitivity Criteria	Characteristics of t	the LCT		ators (ach de	_		ver sus vpe	ceptib	ility ar	nd valı	Je
			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
	generally undevelope sensitivity to wind tu solar PV developmen routes and the taller industrial type develo landform provides m naturally integrate re associated embankm generally impact on s sensitivity to reservo	rbines, field-scale it, onshore cable elements of opments. The ore opportunities to eservoirs and eents, which do not skylines, therefore		- +		_	<u> </u>	~~~	~ ~		
Landcover	Landcover is varied, farmland (predomina and eastern ends of areas/brownfield land holiday/caravan park paddocks for horse k naturalistic areas suc beaches and cliffs, w commons containing lowland heath, dry and fen habitats (e.g. Ben West Runton Common exist as complex hab Outside the built-up farmland forms the p landcover and does r influence sensitivity if except for onshore ca is able to recover mon temporary cable layin In principle, the exist containing buildings have a lower sensitivity character terms to all development under of (consideration of ress specifically excluded this study). Areas of semi-natura result in a localised h all forms of development	comprising arable ant at the western the LCT), built-up d, golf courses and as, pasture, seeping, and more ch as the extensive oodland and semi-natural cid grassland and eston, East and ons); some of which bitat mosaics. areas, arable oredominant, typical not strongly in either direction, able routes, as this ore easily from the ng phase. ting built-up areas and hard surfaces rity in landscape II forms of consideration idential amenity is from the scope of									

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	ience	ce 📩 development type						
Sensi Criter	-	Characteristics of t	he LCT			of high velopn			ceptib	ility ar	nd valı	Je		
				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 openn enclos	ness/	In general, the coast open, exposed charac- sense of enclosure. I closer to the ridge ex- enclosure, due to gre- variation in landform, the wooded ridge itse more frequent wood higher hedgerows wh around the lower slop The typically open, e: LCT have a higher se of development as th opportunities to scree absorb such developm	cter, with limited More inland areas perience stronger later undulation and /landcover, from elf and from the and copses and lich occur on or bes of the ridge. sposed parts of the nsitivity to all forms is provides fewer en or visually	ſ	Î	1	1	ſ	1	1	ſ	ſ		
Scale (landfa and compo featur landsc patter compl	onent res), cape rn &	Fields exhibit significa and form, with the w edges of the LCT typi larger arable fields (c irregular form), and t containing a more co smaller arable and pa hedgerows and areas heathland and grassl combination with the areas, housing and le golf courses and cara this results in a typic medium scale, varied landscape character, sensitivity to larger s such as larger wind t and reservoirs. This landscape scale influence on sensitivi developments such a turbines and cable re storage or AD plants.	estern and eastern cally containing of regular and the central areas mplex mosaic of asture fields, higher of woodland, and, often in edges of built-up eisure uses such as van parks. Overall, ally small to and intimate which increases cale developments urbines, solar farms has a lesser ty to the other s smaller scale lay stations, battery	Î	ſ		Î	*				1		

KEY	increas	e sensitivity to relopment type	Attributes generally decrease sensitivity the development ty		strong	utes do gly influ ivity in ion	ence		Criteri develo not ap	×				
Sensit Criter	-	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		
Sense tranqu remote rurality level o humar influer	uillity/ eness/ y & of n	The presence of man including two towns, busy road network, m tranquillity, remotene within the LCT are ty other parts of the Dis sensitivity to all form under consideration. However, many smal rurality and tranquilli the busier parts of th in the western end of Sheringham, and on the wooded ridge. Th also recognised and r Undeveloped Coast p Sensitivity in these a than is typical for the LCT.	and a relatively neans that levels of ess and rurality pically lower than strict, which lowers s of development I areas of relative ty co-exist amongst e LCT, particularly the LCT beyond the lower slopes of hese qualities are reinforced by the olicy area. reas will be higher	Ţ	Ţ	Ţ			Ţ		Ţ	Ţ		
Time c histori contin	cal	The predominant hist types within the LCT modern 18 th , 19 th and agricultural enclosure majority of the areas settlements and typic time depth, reducing forms of developmen consideration. However, there is als other types, which oc across the LCT and ty discrete, smaller area informal parkland, un pasture, small farm of meadow, historic ear and woodland plantat exhibit a greater time historical continuity, increased sensitivity areas.	include relatively d 20 th century es, which occupy the outside the cally have a low sensitivity to all t under to a wide variety of ccur infrequently ypically occupy as. These include himproved rough clusters, enclosed thworks, commons tions, which will e depth and and therefore	Ţ		Ţ			Ţ		Ţ	Ţ		

KEY	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity the development ty	to	stron	utes do gly influ tivity in tion	lence		Criter devel not ap	≫		
Sensi Crite	itivity ria	Characteristics of t	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 desigr and e to whi	nations xtent ich special ies be	and the strong and d between land and se presence of these na landscapes increases	Shelf type lie within ast AONB, whilst the heringham, Cromer, desley) are excluded h. evelopment under study have the e AONB's defined ome extent, in eloped coastal emoteness, less (and dark skies), listinctive visual links a. As a result, the tionally valued is sensitivity to all ht within or potentially by virtue of their	1	1	1	1	Î	Î		1	1
Other indica value	tors of	High scenic quality: The parts of the LCT within the AONB are moderate scenic qua and extent of modern form and busy road r from scenic quality w historic town / village along the coast and i wooded ridge, and oo skyline features enhat <u>Representativeness</u> : The majority of the L typical arable farmlan settlement.	typically of a lity. The density n settlement / built network detract while the presence of e cores, long views nland to the ccasional landmark ance scenic quality.									
		<u>Rarity:</u> Few rare landscape t	ypes are present.	ſ	ſ	ſ	ſ	Ţ	ſ	Ţ	ſ	Ţ

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development ty	to	strong	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		≫
Sensi Crite	itivity ria	Characteristics of t	he LCT			of high velopn	-	ver sus /pe	sceptib	oility a	nd valı	Je
				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 as the farmland area adversely affected by intensive agriculture hedgerow removals, piecemeal and in-fill occurred in between and village cores, e.g cliff-top caravan park	s have been 20 th century and associated and much development has the historic town J. many prominent	ſ	Ţ	ſ	Ţ	Ţ	Ţ	Ţ	ſ	Ţ
		Nature conservation interests: There are several ext coastal cliffs designat important soft cliff ha number of rare speci Cliffs is designated as whilst, Weybourne, E and Trimingham Cliff Beeston Regis Comm SSSI and SAC in rela heathland and fen ha	tensive stretches of ted for their abitats, which host a es. Overstrand is a SAC and SSSI, seeston, Sidestrand is are SSSIs. toon is also an inland tion to its lowland	1	1	1	1	1	1	1	1	1
		Priority habitats are t across the LCT, and i woodland, lowland he grassland, meadows, orchards.	nclude deciduous eathland, dry acid	1	1	1	1	1	1	1	1	1
		There is an above av cultural heritage asse with many Conservat buildings focused aro settlement cores, e.g Cromer, West Runtor There are also severa Monuments and a Gr Park and Garden at T Overstrand.	ets within the LCT, cion Areas and listed ound the historic of Weybourne, of & Overstrand. al Scheduled ade II Registered	1	1	1	1	1	1	1	1	1
		Recreational value: Recreational value is combination of the ex and beaches, the Nor National Trail, numer	xtensive coastline folk Coast Path	1		1		1	1	1	1	1

KEY	increas	tes generally se sensitivity to velopment type	nsitivity to decrease sensitivity to strongly in				lence		Criterion/ development type not applicable			*
Sensitivity Criteria		Characteristics of t	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
		outdoor visitor attract allowing access inland ridge and associated <u>Literary / artistic asso</u> The Coastal Shelf Ian depicted in the painti renowned Norfolk art Sell Cotman, John Cr Crome. Cromer is als Emma by Jane Auste Cromer Hall is believe inspiration for Basker Arthur Conan Doyle's of the Baskervilles.	d to the wooded Open Access Land. <u>ociations:</u> dscape has been ngs of several ists, including John aske and John so referenced in n (1815), and ed to have been the rville Hall in Sir									

Overall sensitivity to different development types

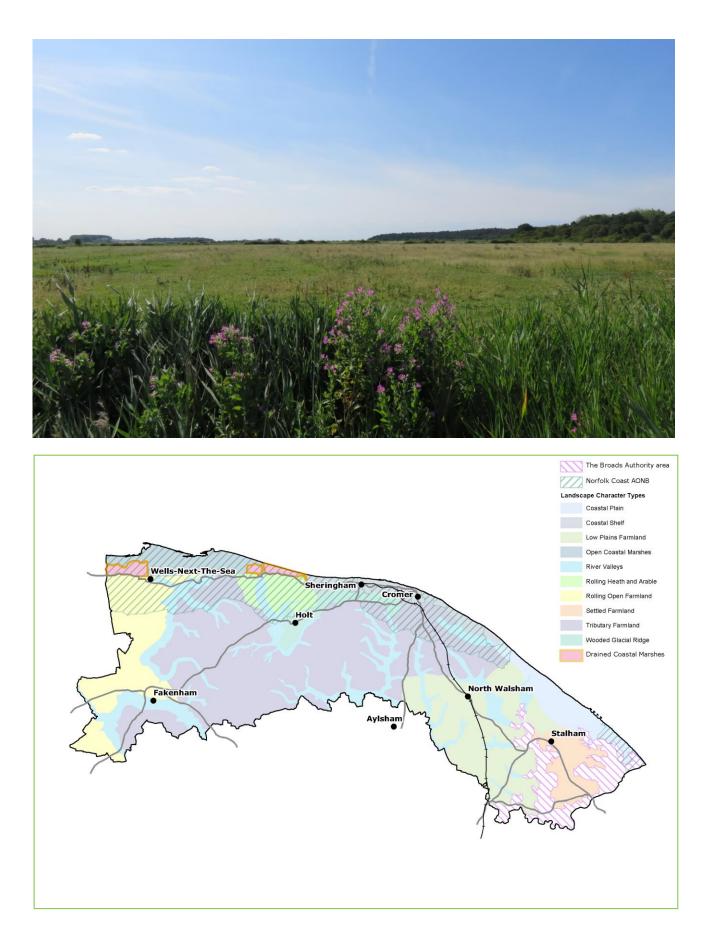
The following table provides an overall sensitivity rating, and justification for that rating, in relation to the relevant development types, based on the LCT sensitivity evaluation table above. It should be emphasised that the overall rating represents the typical sensitivity across the entire LCT, 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)	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 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)	High
Medium scale wind turbines, (up to 60m hub height)	OUT	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 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,	High

		locally distinctive habitats (e.g. soft cliffs). 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.	
Small scale wind turbines, (up to 30m hub height)	ουτ	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	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.	High
		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.	
Field-scale solar PV developmen t (above 10 hectares site area)	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 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.	High
		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.	

Onshore cable routes for offshore wind farms (30m-80m clearance)	ουτ	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
	IN	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)	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)	OUT	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 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 qualities. Therefore,	High

Reservoirs (typical size range 2 – 5ha)	ουτ	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	Moderate- High
	IN	sensitivity is considered to be moderate-high . 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)	Moderate- High



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 Characteristics¹³

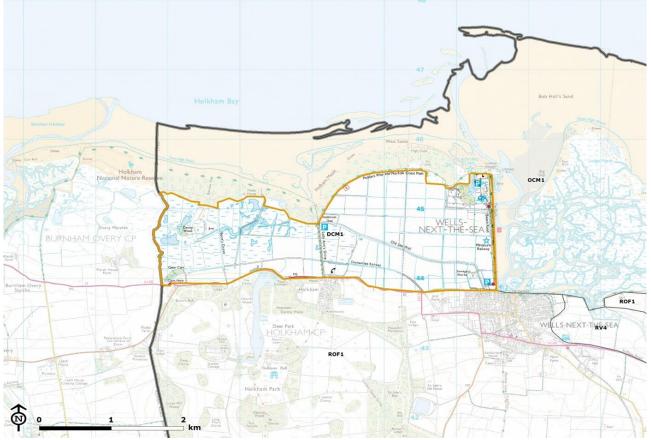
- A flat, open low lying landscape dominated by grazing marsh and drained farmland
- Enclosed by natural (sand dunes, shingle banks) or man-made (clay) banks which keep the sea out
- A dynamic and changing landscape
- A remote, peaceful landscape, but with some 'honeypots' of activity and built development
- 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

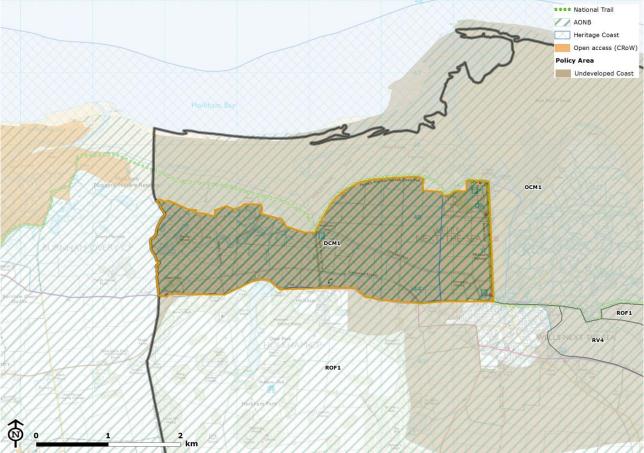
- Areas of coastal grazing marsh, reedbeds, rush pastures, saline lagoons and shingle banks of significant ecological value
- The sense of openness, large skies, and quality of coastal light
- Relative absence of human settlement and remote, peaceful nature
- Historic features including remnant historic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

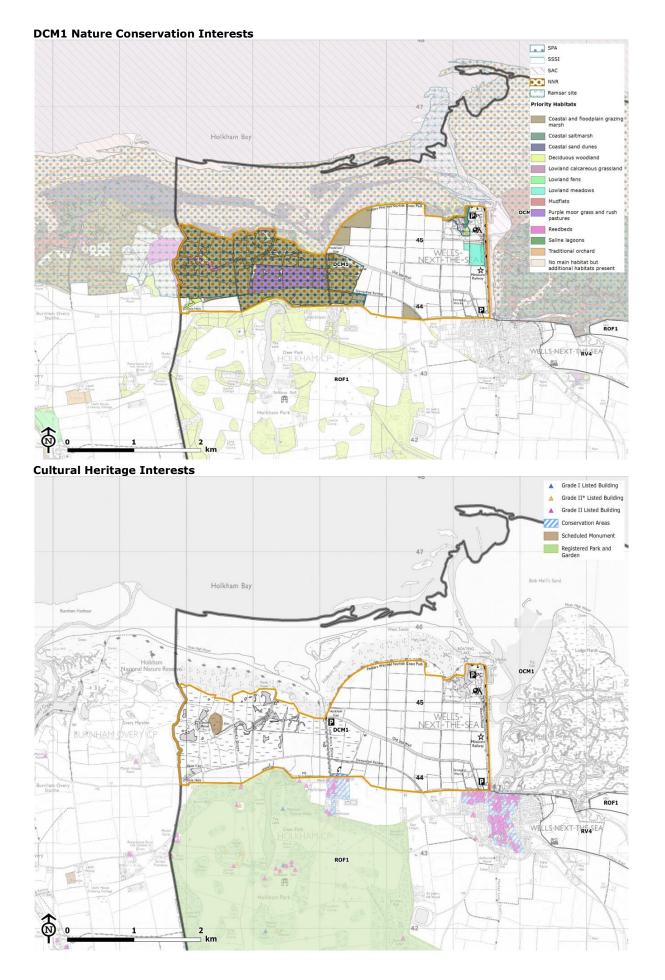
 $^{^{13}}$ Detailed information about landscape character and valued features is set out in the North Norfolk Landscape Character Assessment (2018)

Location of DCM1



DCM1 Landscape Designations and Policy Area





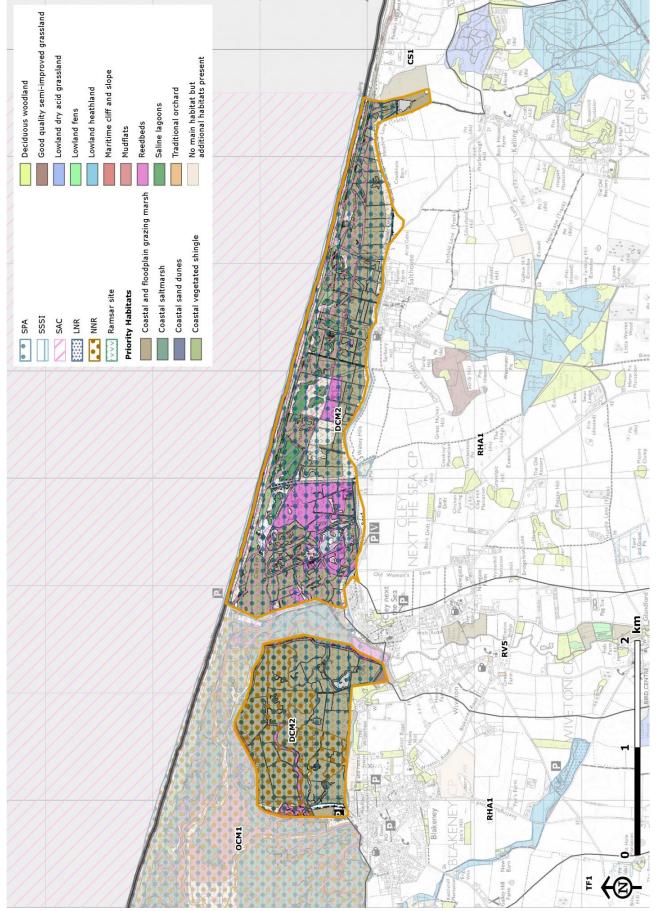
Location of DCM2



DCM2 Landscape Designations and Policy Area







Historic Park and Garden (Ungraded) Conservation Areas S Grade II* Listed Building Grade I Listed Building Grade II Listed Building Scheduled Monument --**RHA1** ΡV Ê Sea ۵. **RV5 RHA1** OCM1 E

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 relopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	ience	Criterion/ development type not applicable			*	
Sensi Criter	-	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		Flat and predominant landform with undeven which is intrinsic to t LCT. This increases s development types.	Î		1	Î	1	1	Î	Î	1	
Lando	over	Combination of natur grazing marshes, sal reedbeds and rush part and part of DCM1 – i the LCT), which increa all development type improved pasture (pa does not strongly infl either direction (exce cable routes).	1		1			1	1	1	1	
Sense openn enclos	ness/	Landscape has a high exposed character du combination of flat la vegetation and abser development/visual s increases sensitivity types. Generally, the (seaward) enclosure landscape is provided woods within the adj marsh at Holkham (r	ue to the indform, low-lying ince of screening. This to all development only sense of within the d by the coastal pine acent open coastal		Î	Î	1	Î	Î	1	1	ſ
Scale (landfo and compo featur landso patter	onent es), cape	The uniformly flat lar uninterrupted coasta large-scale, expansiv However, the appare landscape pattern hid complexities in terms the mosaic of coastal	l views create a e landscape. nt simplicity of the des some significant s of the interaction of	Î				*	1	ſ	Î	1

KEY	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity the development typ	to	strong	utes do gly influ ivity in ion	ence			ion/ opment oplicabl		×
Sensi Crite	itivity ria	Characteristics of t	he LCT		ators o ach dev	_			ceptib	ility aı	nd valı	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
comp	lexity	Whilst the expansive generally reduces ser larger scale developm turbines, this is coun frequently complex la where marsh, creeks interact.	nsitivity to the nents, such as wind terbalanced by the andscape pattern									
remot ruralit level o huma influe Undev	uillity/ teness/ ty & of n	A strong sense of tra remoteness prevails LCT, particularly DCM managed as nature r Norfolk Wildlife Trust human activity and ir of DCM1, including th holiday park and pub Wells-next-the-Sea, a Visitor Centre and ca Drive close to Holkha the level of tranquillith human influence incr all development type These characteristics reinforced by the Uno policy area.	in most parts of the 12 which is mostly eserves by the . There is greater intervention in parts he large Pinewoods lic car park north of and the Lookout r park at Lady Ann's im beach. Overall, ty, remoteness and eases sensitivity to s. are recognised and	1	1		1				1	Î
Time histor contir		There are a number of types throughout the a strong sense of tim qualities, plus the po archaeological evider areas of unimproved 18 th century curviline enclosures and the h (Iron Age fort) north- which increase sensit development.	ELCT which display the depth and historic tential for preserved nce. This includes marine marsh, pre- tear drained istoric earthwork -west of Holkham,	1	1	1	1		1		1	1

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	ence			ion/ opment oplicabl		≫
Sensi Crite	itivity ria	Characteristics of t	he LCT			of high velop n	-		sceptib	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
Value	e Criteri	a										
landso desigr and e to whi	nations xtent ich special ies be	Coast AONB, and the also falls within the N Coast. Any of the typ	in this study have the y affect the AONB's cles to some extent, eveloped coastal emoteness, less (and dark skies), listinctive visual links a. As a result, the tionally valued s sensitivity to all	↑	1	1	1	1	1	1	1	1
Other indica value	tors of	High scenic quality: The high scenic quali through AONB and H designations, which t the whole of this LCT <u>Representativeness:</u> The drained coastal r	eritage Coast cogether incorporate (see above). marshes are a			↑ ↑			↑		↑	↑ ↑
		particularly importan example of this lands <u>Rarity:</u>	scape type.	U		L	L	L	L	L	l	
		The mosaic of habita the LCT is nationally <u>Intactness:</u>	rare.	Î	1	Î	Î	Î	Î	Î	Î	1
		The landscape displat of intactness, and par subject to 20 th centur intensification (enclose enlarged and convert Parts are also subject dynamic natural char inundation of freshwar saltwater during stor	ts have been ry agricultural sures in DCM1 ted to arable). t to constant and nge, particularly ater marshes with	_		_					-	_

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		stron	utes do gly influ tivity in tion	lence			ion/ opment oplicabl		×
Sensi Crite	itivity ria	Characteristics of t	he LCT			of high velopn			sceptib	oility a	nd valı	Je
			Nature conservation and cultural				Field scale solar PV	Onshore cable routes	Cable relay stations & sub-stations	Commercial battery storage schemes	Anaerobic digestion plants	Reservoirs
		Nature conservation heritage interests	and cultural									
		The majority of the la exception being the of DCM1) is subject to a and international nat designations, reflecti and rarity of habitats Ramsar; SPA; SAC;	easterly part of a range of national cure conservation ing the importance and species:	1	1	1	1	1	1	1	1	1
		There are limited here the LCT, reflecting the intervention and sett Valley Conservation a mouth of the River G LCT.	ne lack of human clement. The Glaven Area extends to the	_	-		-	-	-		_	_
		Recreational value The Norfolk Coast Pa along the boundary of is also important for recreational activities watching within Cley Marshes Nature Rese	a range of other s, notably bird and Salthouse	Î	Î	1	1	Î	1	Î	Î	Î
		Literary / artistic ass	<u>ociations</u>									
		There are no known literary/artistic assoc Drained Coastal Mars	ciations for the	—			-	-	-		-	

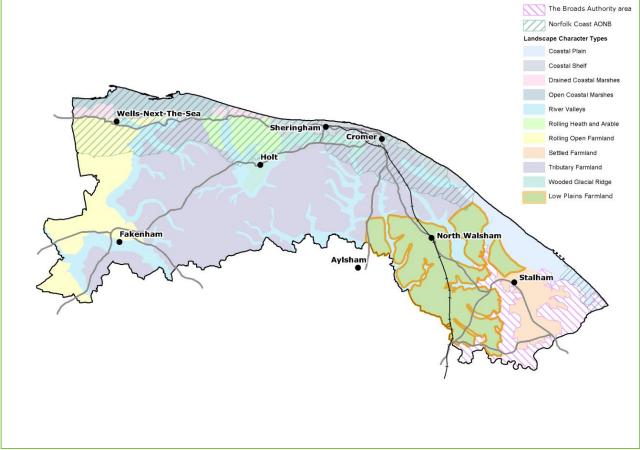
Overall sensitivity to different development types

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 tranquility, 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 (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.	
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	High

Development Type	Reason for judgement	Overall Sensitivity
	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.	
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 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 Characteristics¹⁴

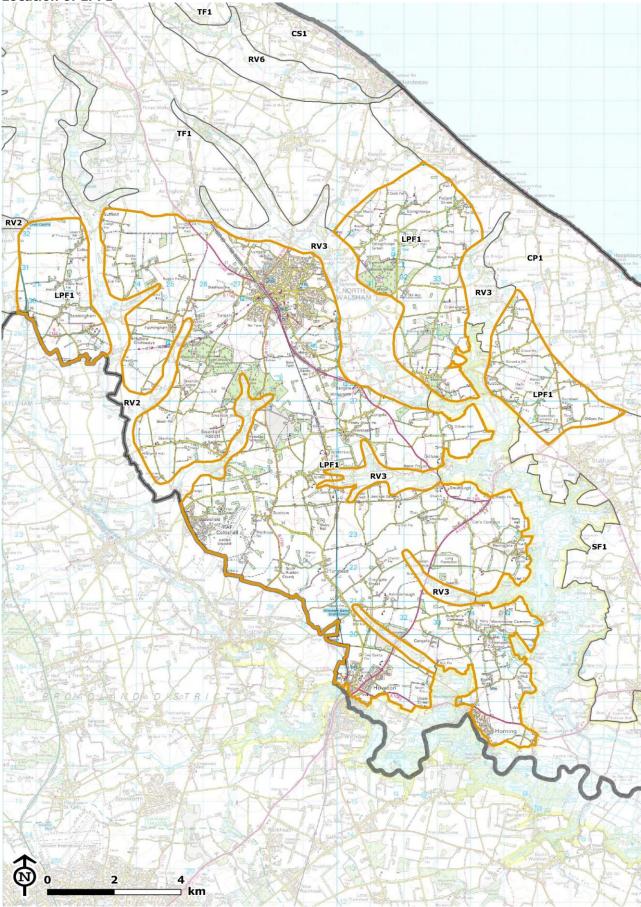
- Flat or very gently undulating terrain, draining by small streams
- A rural landscape in which arable land use predominates with pasture more common closer to the river valleys and the Broads
- An open landscape with large fields and low hedges
- Grassed bank and ditch field boundary features
- A 'copse 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 tower

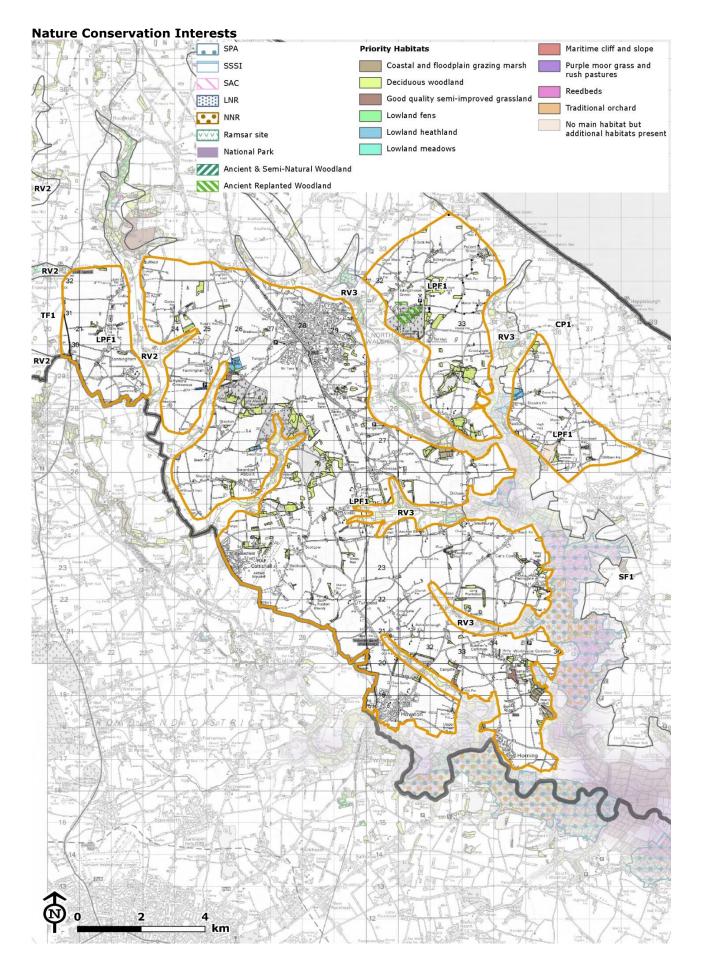
¹⁴ Detailed information about landscape character and valued features is set out in the North Norfolk Landscape Character Assessment (2018)

Location of LPF1

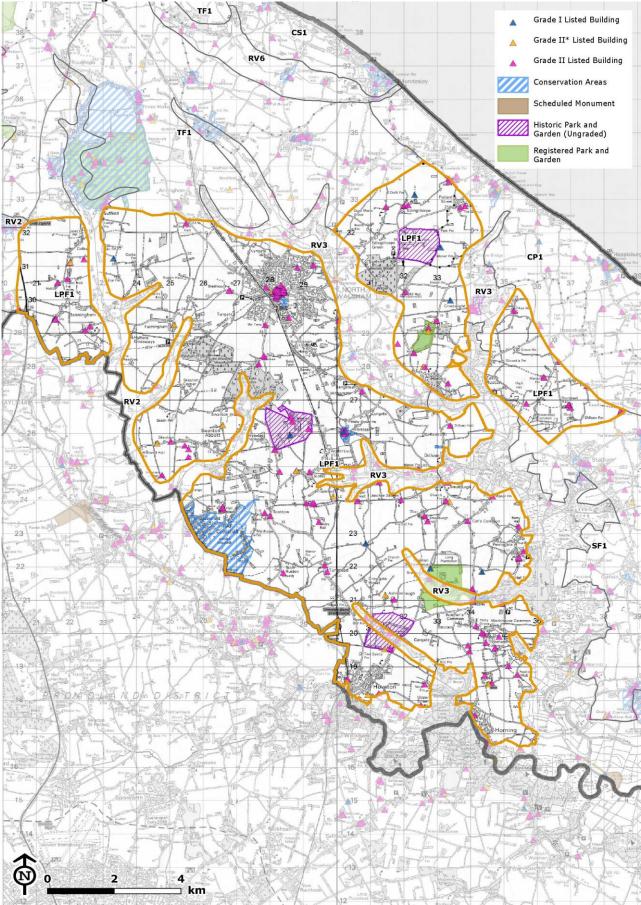


TF1 AONB CS1 Open access (CRoW) **Policy Area** RV6 Undeveloped Coast TF1 RV2 LPF1 P. A RV3 CP1 RV3 LPF1 LPF1 RV2 LPF1 RV3 SF1 RV3 2 4 s km

Landscape Designations and Policy Area



Cultural Heritage Interests



Landscape Sensitivity Evaluation

Criteria Appraisal

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	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		stron	utes do gly influ ivity in ion	ience	-		ion/ opment oplicabl		≫
Sensi Crite	itivity ria	Characteristics of t	he LCT			of high velopn			sceptib	oility aı	nd valı	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 & skyl		river valleys which di The flattest areas boo whereas the north of and less undulating. Skylines are generall formed by farmland a fairly frequently punc church towers. Loca around North Walsha built form on the sky towers, larger-scale i buildings and housing The generally flat lan sensitivity to all form except reservoirs, wh skylines increase sen structures such as wi	in limited areas with opes. Slopes are the LCT borders the issect the landscape. rder the Broads, the LCT is higher y undeveloped and and woodland, and ctuated by landmark lised areas within and in contain modern line, such as water industry/commercial g. dform lowers as of development hilst the undeveloped usitivity to taller ind turbines. elay stations, battery I AD plants is not	1	1	1	Ţ	Ţ				1
Landc	over	A combination of pre farmland across muc smaller areas of past settlement and the v scattered woodlands, remnant heathland. arable landcover doe influence sensitivity i except for onshore ca arable farmland is ab	h of the landscape, cure around alleys/Broads, , parklands and The predominant s not strongly n either direction, able routes, as		-	-	-	Ţ	_			-

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development ty	to	strong	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		≫
Sens Crite	itivity ria	Characteristics of t	he LCT		ators o ach de	-	-	ver sus vpe	ceptib	ility 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
		from the temporary of The areas of semi-na have a higher sensiti development.	atural habitats would									
Sense	ness/	A generally open cha combination of large typically bounded by due to widespread ha the extensive areas of character, the sense relative lack of visua containment increase new development. Lo greater enclosure are mature oak trees, wh and field boundaries, woodlands, some ext Bacton Woods and to Westwick, and river landform and frequent hedges.	arable fields low grass banks edgerow removal. In of generally open of openness and l screening/ es sensitivity to any ocalised areas of e provided by hich line many roads a scattered tensive such as o the north of valleys due to the	1	ſ	1	1	1	1	1	1	1
Scale (landf and comp featur landso patter comp	form onent res), cape rn &	Fields are generally of size which reduces so scale developments of turbines and solar fa there is variation in b resulting in a more in landscape pattern in settlements and the increases sensitivity developments. In ad- of vernacular villages lanes, farmsteads, hi isolated churches and trees also introduces human-scale feature increase sensitivity to developments. Overall, these scale fo other out for the large	ensitivity to larger such as larger wind rms. However, both size and shape, ntricate, small scale proximity to river valleys which to larger scale dition, the presence s, narrow rural istoric estates, d field/roadside relatively frequent s which also o larger scale					*				

	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		×
Sensiti Criteri	-	Characteristics of t	he LCT		ators o ach de	_		ver sus vpe	ceptib	oility a	nd valı	Je
				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
		scale of the landscap influence sensitivity of other for the other do as smaller scale turb stations, battery stor	one way or the evelopments such ines and cable relay									
Sense of tranqui remote rurality level of human influence Coast p area	llity/ ness/ & & ce	The rural settlement there are large areas farmland and dark sl between the towns a providing a sense of tranquillity, which ind all forms of developen consideration. These recognised and reinfo Undeveloped Coast p The expanding town and its surroundings where human influen than is typical for the LCT, with significant traffic, which reduces tranquillity and remo	s of quiet rural kies at night in nd villages, remoteness and crease sensitivity to nent under e qualities are also proced by the policy area. of North Walsham is one location nee is notably higher e remainder of the levels of road s the sense of	1		ſ	ſ	ſ	ſ	ſ	ſ	Î
Time de historic continu	al	The more common h types within the LCT modern 18 th , 19 th and agricultural enclosure vast majority of the a have a low time dept sensitivity to all form under consideration. However, there is als types, which occur in the LCT and typically smaller areas. These parkland, ancient wo century rectilinear gr enclosed meadows a (in close proximity to Broads), which will e depth and historical of therefore increased s	include relatively d 20 th century es, which occupy the area and typically th, reducing as of development so a variety of other afrequently across occupy discrete, e include informal odland, 17 th – 20 th razing marsh, nd water meadows o the valleys and xhibit a greater time continuity, and	Ĵ			Î		Ţ	Ţ	Ţ	Ţ

KEY	increas	tes generally le sensitivity to velopment type	Attributes generally decrease sensitivity the development typ	v to 📕 strongly influence 📩 developr							ment type		
Sensi Criter	-	Characteristics of t	he LCT			_	er/lov nent ty		sceptib	oility a	nd valı	Je	
				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											
Preser landsc design and ex to whi their s qualitie could l affecte	ape nations ktent ch special es be	part of the Norfolk Co in the north of the ar The south-eastern pa borders, but is not w Any of the types of d consideration in this potential to affect the special qualities to so particular the undeve character, sense of re tranquillity and wildn and the strong and d between land and se presence of these na landscapes increases	e LCT is a very small bast AONB (c.21ha), rea around Paston. art of the LCT ithin, the Broads. evelopment under study have the e AONB's defined ome extent, in eloped coastal emoteness, ess (and dark skies), istinctive visual links a. As a result, the tionally valued sensitivity to all it within or potentially	Î	1	1	1	1	1	1	Î	Î	
Other indicat value	tors of	scenic quality by virt large scale, gently ur arable farmland, in c	vpically of a moderate ue of the medium to indulating and regular ombination with ernacular settlements, ters, treed horizons adside oaks and a particularly	-	1	₽		1	1	1	1	₽	
		<u>Rarity:</u> Few rare landscape t	ypes are present.	ſ	Ţ	ſ	Ţ	ſ	ſ	ſ	ſ	Ţ	

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	lence	Ι		ion/ opment oplicabl		×			
Sensi Crite	itivity ria	Characteristics of t	he LCT			_	er/lov nent ty		ver susceptibility and va vpe						
				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		Intactness:				U 10			0.00						
indica value	ators of		removals, coupled dges have not been been addressed in	Ţ	Ţ	Î	ſ	ſ	ſ	Ţ	Ļ	Ţ			
		-	the LCT is not e conservation e present, all and discrete, such h SSSI, or very small m the adjacent AC, SPA, SSSI), rond the Broads								l				
		Conservation Areas (include deciduous eath, floodplain emi-improved ets are scattered ily in the form of igs. There are fewer North Walsham, shall and Dilham) than yo registered parks		-	_	_					_			
		Recreational value: The LCT contains a tr PRoWs for the Distric Weaver's Way and Pa Recreational Routes Walsham. Whilst no present, there is an a amount of Open Acco Bacton Woods, Bryan	ct, including the aston Way through North Naional Trails are above average ess Land, including												

-

KEY	increas	butes generally ase sensitivity to levelopment type Attributes generally decrease sensitivity to the development type Attributes do not strongly influence sensitivity in either direction						opment		్		
	itivity ria	Characteristics of t	he LCT	Indicators of higher/lower susceptibility and value for each development type								
	riteria				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
		number of smaller co Broads. However, rec to be more focussed coastal LCTs and the Literary / artistic ass	creational use tends on the neighbouring Broads.									
		There is evidence that & 19 th Century landso Humphry Repton influ- historic parkland at H Honing Hall. The Mu Ackroyd, Agatha Chri spent time in North W be the setting for sor	at the prominent 18 th cape designer uenced the design of loveton Hall and rder of Roger stie: Agatha Christie Valsham, which may		-							

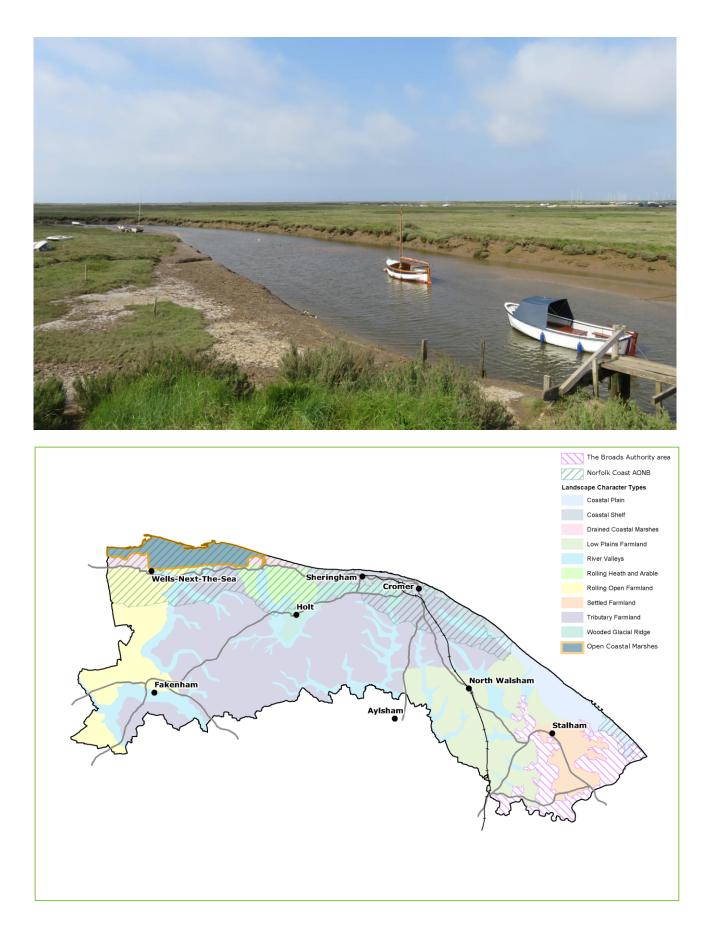
Overall sensitivity to different development types

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 	High
Medium scale	features, such as church towers.	
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. 	Moderate-
	 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 tranquility) 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 	High
Small scale wind turbines, (up to 30m hub height)	 features, such as church towers. 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 towers. Sensitivity is likely to be lower: In localised areas of lower intervisibility with the designated landscapes; 	Moderate
	 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 moderate:Typical sensitivity to medium scale wind turbines is moderate:• 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.ModeSensitivity is likely to be particularly high: • Where intervisibility between field-scale solar PV development and the 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 cableTypical sensitivity to onshore cable routes is moderate:	rate
solar PV development (above 10 hectares site area)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.ModeSensitivity is likely to be particularly high: • Where intervisibility between field-scale solar PV development and the 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.ModeOnshore cableTypical sensitivity to onshore cable routes is moderate:Typical sensitivity to onshore cable routes is moderate:Mode	rate
 Where intervisibility between field-scale solar PV development and the 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 Typical sensitivity to onshore cable routes is <i>moderate</i>: 	
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 Typical sensitivity to onshore cable routes is moderate:	
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 Typical sensitivity to onshore cable routes is moderate:	
 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 Typical sensitivity to onshore cable routes is <i>moderate</i>: 	
 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 Typical sensitivity to onshore cable routes is <i>moderate</i>: 	
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 Typical sensitivity to onshore cable routes is moderate:	
 Foutes for offshore wind farms (30m – 80m clearance) 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 Mode sensitivity. 	rate
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.	
Commercial Typical sensitivity to industrial type developments is <i>moderate</i> :	
 battery storage schemes, Cable relay stations and sub-stations (for offshore wind farms) and Anaerobic 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. 	rate
digestion Sensitivity is likely to be higher:	
 plants (typical size range 2.5 - 8 ha) 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 tranquility); and 	
 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 sensitivity to reservoirs is <i>moderate:</i>	
(typical size range 2 – 5ha)	• 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.	Moderate
	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.	



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 Characteristics¹⁵

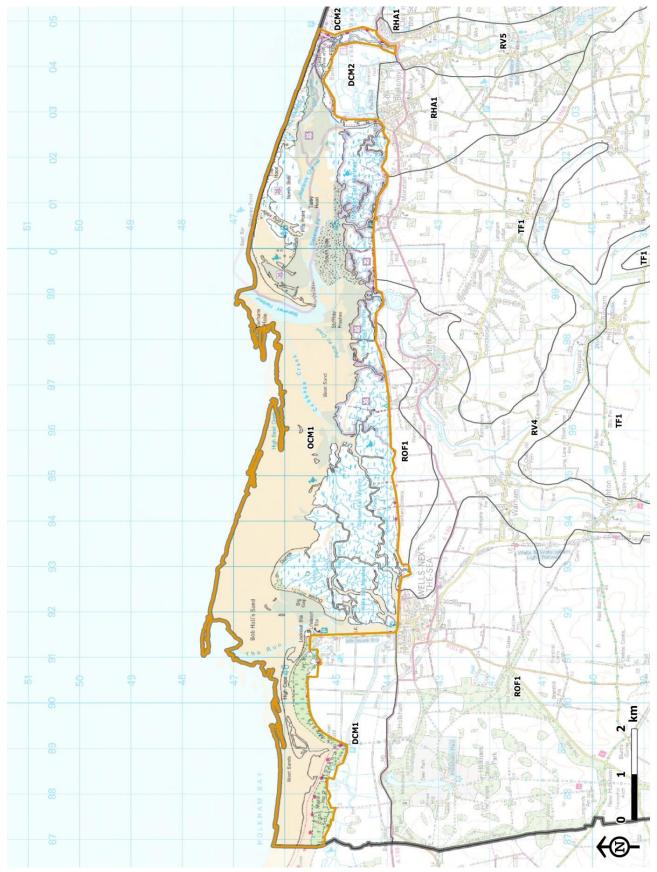
- Flat, open landscape of saltmarshes, creeks, sand bars and mudflats
- A constantly changing natural landscape
- Holkham Meals sand dune system and pine woods
- Little human interference and absence of settlement
- Great nature conservation interest and a haven for breeding birds
- Boats are a feature, 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

 $^{^{15}}$ Detailed information about landscape character and valued features is set out in the North Norfolk Landscape Character Assessment (2018)

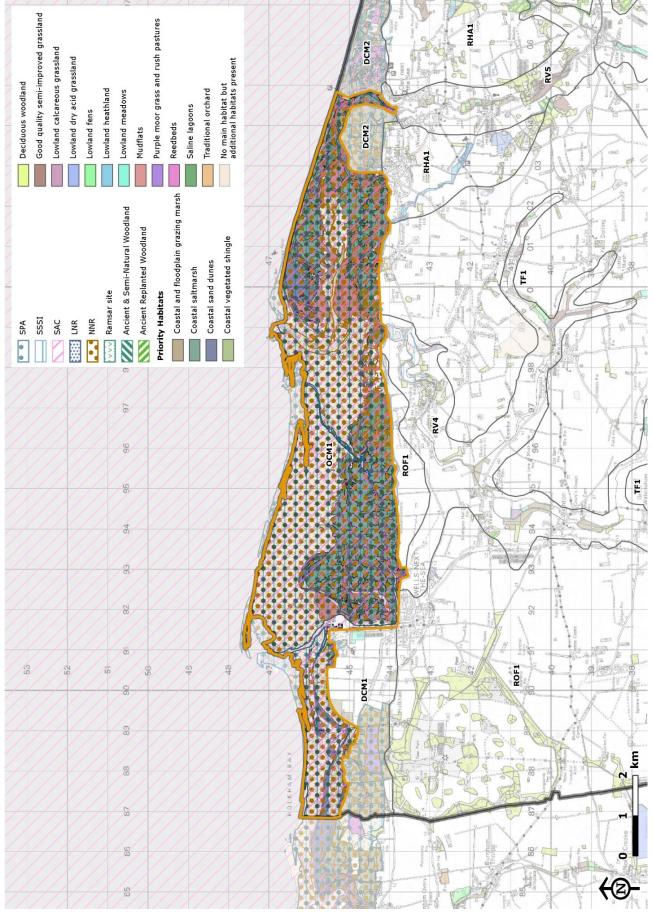
Location of OCM1

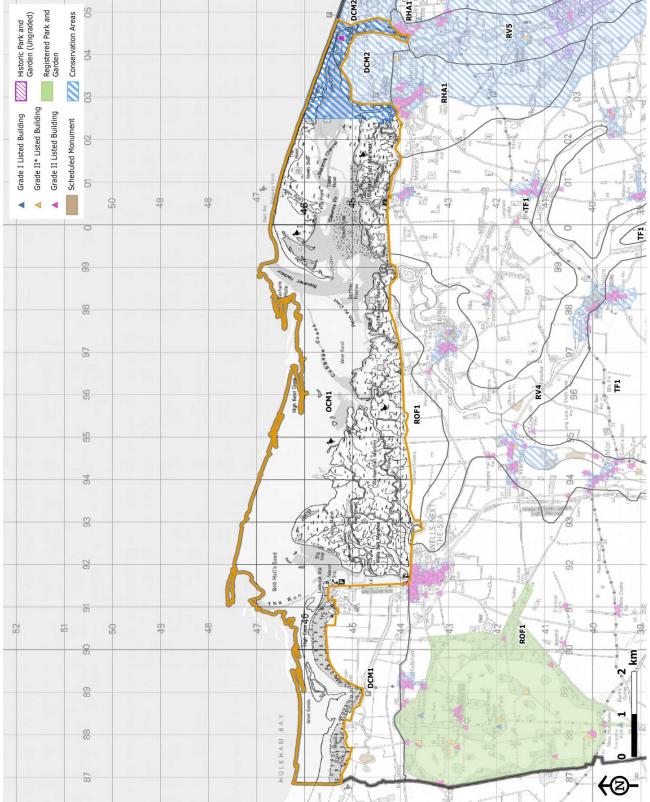


Landscape Designations and Policy Area



Nature Conservation Interests





Cultural Heritage Interests

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	Attributes generally se sensitivity to velopment type			strong	utes do gly influ ivity in ion	ience	-		ion/ opment oplicabl		≍	
Sensi Criter	-	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		Flat but locally complex naturalistic landform with undeveloped skylines, which is intrinsic to the character of the LCT. This increases sensitivity to all development types.			1	1	1	Î	1	Î	Î	1	
Lando	over	Highly naturalistic complex of salt marshes, mudflats, sand bars and dunes, which increases sensitivity to all development types.			Î	Î	Î	1	1	1	1	1	
Sense openn enclos	ness/	Landscape has a highly open and exposed character due to the combination of flat landform, low-lying vegetation and absence of development/visual screening. This increases sensitivity to all development			1	1	Î	1	1	1	1	1	
Scale (landfi and compo featur landsc patter compl	onent es), cape m &	types. The uniformly flat landform, and long, uninterrupted coastal views create a large-scale, expansive landscape. However, the apparent simplicity of the landscape pattern hides some significant complexities in the mosaic of coastal habitats. Whilst the expansive landscape scale generally reduces sensitivity to the larger scale developments, such as wind turbines, this is counterbalanced by the frequently complex landscape pattern where marsh, creeks and sand bars/dunes interact.			1	1		*	1	1	1	1	

KEY	increas	tes generally se sensitivity to velopment type			strong	utes do gly influ ivity in ion		Criteri develo not ap	*				
Sensitivity Cha 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	
Sense of tranquillity/ remoteness/ rurality & level of human influence Undeveloped Coast policy area		A strong sense of tra remoteness and wild intrinsic to the chara increases sensitivity types. Minimal huma no settlement preser characteristics are re reinforced by the Uno policy area.	ness, which is cter of the LCT and to all development n intervention and ot. These cognised and									1	
historical are do continuity and m strong qualiti archae		Historic landscape ty are dominated by un and marine marsh, w strong sense of time qualities, plus the po archaeological evider sensitivity to all form	improved intertidal which display a depth and historic tential for preserved nce. This increases	Î	1	1	1	1	Î	1	Î	1	
Value	e Criteria	a											
and ex to whi	cape nations xtent ich special ies be	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 indica value	tors of	High scenic quality: The high scenic quali through AONB and H designations, which i whole of this LCT (se	eritage Coast ncorporate the	1	Î	1		1	1		1	Î	

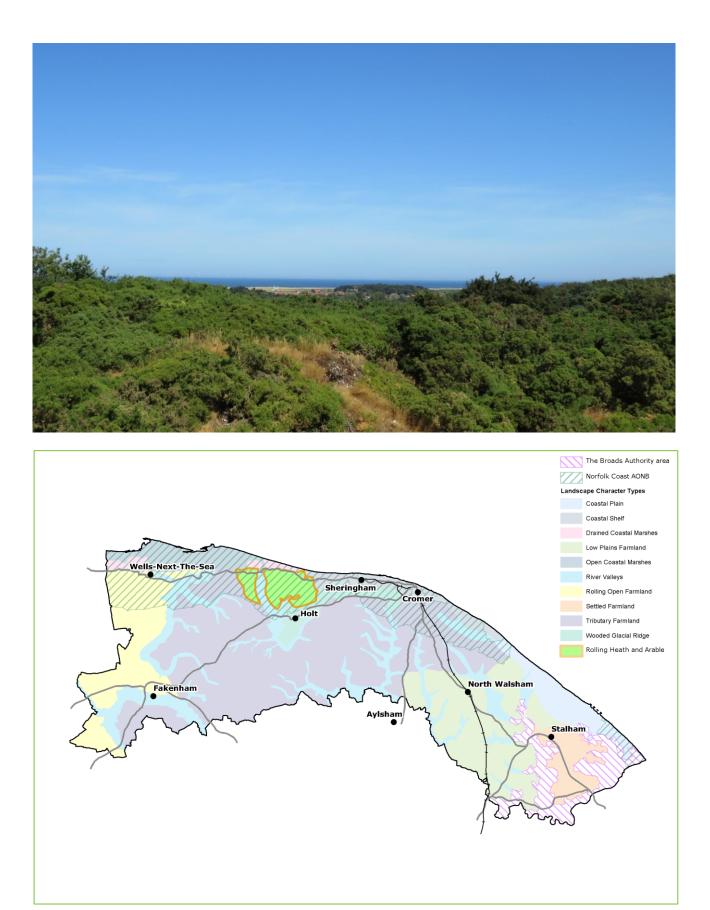
KEY	increas	se sensitivity to decrease sensitivity			ase sensitivity to evelopment type Attributes generally decrease sensitivity to the development type decrease sensitivity in either direction							Criterion/ development type not applicable			
Sensitivity Criteria		Characteristics of the LCT			Indicators 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			
		Representativeness:													
		The open coastal ma particularly importan example of this lands	t and representative	1	1	1	1	1	1	Î	Î	Î			
Other indica value	ators of	<u>Rarity:</u> The mosaic of habita the LCT is nationally		Î	Î	Î	Î	Î	Î	Î	Î	1			
		<u>Intactness:</u> The landscape displa intactness, albeit wit constant and dynami	hin the context of	1	1	1	1	1	Î	1	1	1			
		Nature conservation heritage interests Landscape is subject number of nature con designations, reflecti and rarity of habitats Ramsar; SPA; SAC; I	to a very high nservation ng the importance and species:	1	1	1	1	1	1	1	1	1			
		Heritage assets are la reflecting the absence intervention and sett Valley Conservation / mouth of the River G LCT.	argely absent, e of human lement. The Glaven Area extends to the									_			
		Recreational value The Norfolk Coast Pa along the southern b The area is also impo other recreational ac watching, boating an watching trips.	ortant for a range of tivities such as bird	Î	ſ	ſ	Î	Î	1	1	1	Î			
		Literary / artistic ass There are no known literary/artistic assoc Coastal Marshes land	famous iations for the Open						-	-	-				

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 tranquility, 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. 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.	High
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	High

Development Type	Reason for judgement	Overall Sensitivity
	between land and sea). Overall, typical sensitivity to this form of development throughout the LCT is considered to be 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 tranquility, 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



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 Characteristics¹⁶

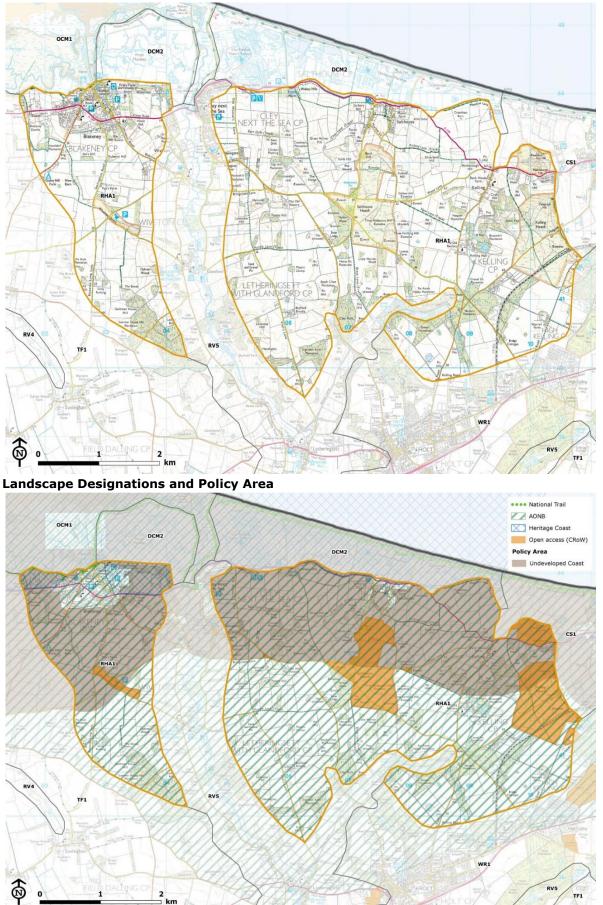
- Distinctive glacial topography
- An open, elevated character affording long views to the coast and inland
- Extensive heathlands and woodland blocks are prominent features
- A strong rural character, with nature conservation interest and tourism land uses
- Concentration of settlement along the coast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

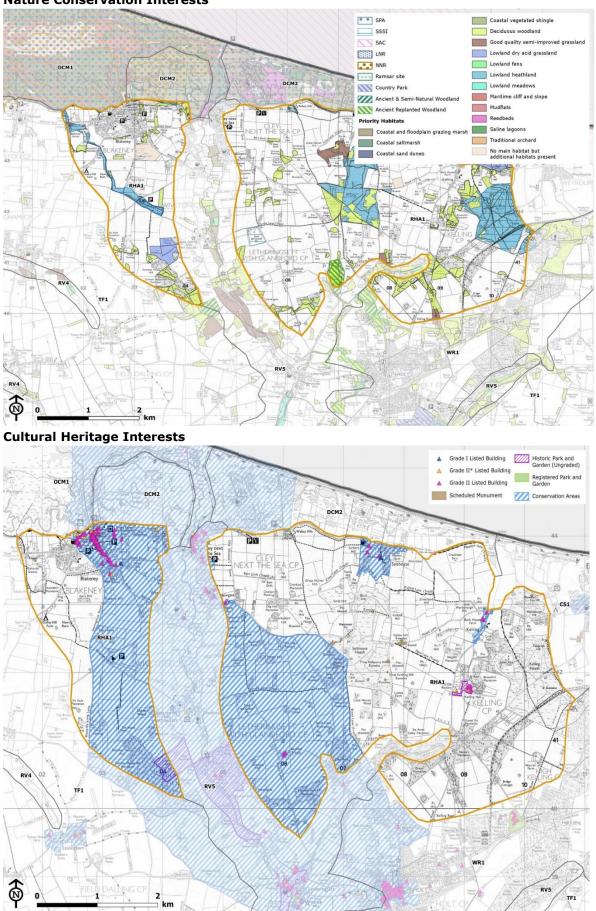
Valued features and qualities

- 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

¹⁶ Detailed information about landscape character and valued features is set out in the North Norfolk Landscape Character Assessment (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	Attributes generally se sensitivity to evelopment type			strong	utes do gly influ ivity in ion	lence			ion/ opment oplicabl		≫
Sensi Crite	itivity ria	Characteristics of t	he LCT	Indicators of higher/lower susceptibility and val 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
Susc	eptibilit	y Criteria			·							
Topo <u>c</u> & sky	graphy lines	Gently rolling and un landform characterise from the elevated hir towards the coastal r localised areas of ste the eastern scarp slo Subtle small, gentle l gravels and neighbou localised intimate are to the variation in lar shaping and enclosin Generally undevelope skylines formed by a heathland and woodl punctuated by histori notably church tower at Cley and Weybour LCTs). The varied landform areas of higher and le lower-lying developm farms, onshore cable stations, battery stor plants and reservoirs degree of slope and I whilst the presence of features on a largely generally increases s structures such as wi	ed by gentle slopes interland down marshes, with eper slopes such as pe of Kelling Heath. hillocks of sands and uring hollows provide eas which contribute indscape character, g views. ed and prominent rable farmland, and,occasionally ic landmark features, rs and the windmills ne (in neighbouring results in localised ower sensitivity to nents such as solar s and cable relay rage schemes, AD t, according to the andform screening, of historic landmark undeveloped skyline usceptibility to taller	ſ	1	1						
Lando	over	Predominantly arable pig farming, conifero clumps, interspersed naturalistic habitats, lowland heaths at Ke	with more including extensive			-	-	ſ	-			

KEY	increas	ites generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development typ	tivity to 📕 strongly influence 📩 development								*			
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			
		smaller heathy outcr Downs, acid grasslar hill, and deciduous/n the edges of the hea (designated ancient The dominant arable the middle of the ser for the majority of de except for onshore co sensitivity is reduced landcover is able to r temporary laying pha naturalistic landcove lowland heathland, g ancient woodland, w sensitivity to all deve	nixed woodland on ths and at Cley Park woodland). landcover lies in nsitivity spectrum evelopment types able routes where l as this type of recover from the ase. Areas of r, such as the irassland and ill have higher												
Sense openn enclos	ness/	A generally open cha the arable farmland a by the elevation and coast, giving a feelin uninterrupted views The varied landform, steeper slopes, hilloo presence of shelterbo trees, woodland and hedgerow trees and provide localised are enclosure. The prevailing strong and relative lack of v screening/containme majority of the LCT i to any new developm	aracter throughout areas, accentuated proximity to the g of spaciousness, and large skies. with areas of tks and hollows and elts, clumps of heathy scrub, higher hedges, as of greater g sense of openness risual ent throughout the ncreases sensitivity	1			1					1			
Scale (landf and compo featur landso patter compl	Form onent res), cape rn &	Fields are generally g medium to large size sensitivity to larger s such as larger wind t reservoirs. However in both size and shap more intricate, small pattern particularly in settlements which in	e, which reduces scale developments surbines and , there is variation be, resulting in a scale landscape n proximity to			0	-	≫							

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development ty		strong	utes do gly influ ivity in ion	ence			ion/ opment oplicabl		≫
Sensi Criter	-	Characteristics of t	he LCT		ators o ach de	-	-		ceptib	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
		to larger scale develo addition, the presence villages, narrow rura farmsteads also intro human-scale feature sensitivity to larger s such as the larger wi developments or larg reservoirs. Overall, t balance each other o scale developments turbines, solar farms The varied scale of the not influence sensitive other for the other d as smaller scale turb stations, battery stol	ce of vernacular I lanes and oduces frequent is which increase scale developments ind energy ger solar farms and these scale factors out for the larger (larger wind s and reservoirs). he landscape does vity one way or the evelopments such ines and cable relay									
Sense tranqu remote ruralite level o humar influer	uillity/ eness/ y & of n	Away from the coast road, a strong sense remoteness and trad prevails in large expa farmland and heathla human intervention counteract this, whic notably dark skies.	of tranquillity, litional rurality anses of quiet and, with little and activity to ch also results in This increases	ſ	1	1	1	1	1	1	Î	Î
Time c histori contin		The more common h types within the LCT modern 18 th , 19 th an agricultural enclosur- is also a variety of of commons and heaths numerous ancient bu ancient woodland, sr informal parkland an villages, all of which time depth and histo These areas, which c across the LCT, broa lower time depth of t modern farmland so sensitivity is not stro either direction for a	include relatively d 20 th century es. However, there ther types, including s (containing urial mounds), mall areas of d vernacular display a stronger orical continuity. occur frequently dly balance out the the remaining more that overall, ongly influenced in									

	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development ty		strong	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		*
Sensit Criteri	-	Characteristics of t	he LCT			of high velopn		ver sus /pe	sceptib	oility a	nd valı	e
				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
		development types u	nder consideration.									
Value	Criteri	a										
Presen landsca designa and ex to whic their sp qualitie could b affecte	ape ations ctent ch pecial es pe	defined Heritage Coa of development under this study have the p AONB's defined speci extent, in particular t coastal character, se	aller coastal areas ey are also within the st. Any of the types er consideration in obtential to affect the ial qualities to some the undeveloped nse of remoteness, ess (and dark skies), istinctive visual links a. As a result, the tionally valued sensitivity to all	1	1	1	1	1	1	1	ſ	1
Other indicat value	ors of	High scenic quality: The high scenic quali through AONB and H designations, which t the whole of this LCT <u>Representativeness:</u>	eritage Coast ogether incorporate	1	1	1	1	1	1	1	1	1
		The majority of the L typical arable farmlar extensive lowland he notable and importar habitat, which will ind locally in these heath <u>Rarity:</u> The extensive lowlan landscape features, w sensitivity locally in t remaining predomina	nd, however the aths are particularly at examples of this crease sensitivity aland areas. d heaths are rare which will increase hese areas. The	-			-	_			-	_
		farmland is not rare. <u>Intactness:</u> Intactness of the land adversely affected by intensive agriculture	20 th century	-	-		-	-			_	_

incre	butes generally ase sensitivity to levelopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		×
Sensitivity Criteria	Characteristics of t	the LCT		ators o ach dev	-	-		ceptib	oility aı	nd valu	Je
			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
	 most intact areas of Norfolk (with reversi- heathland being enc- areas), and a number historic villages. The other out to a neutral sensitivity (although in siting and design) <u>Nature conservation</u> interests: Heritage assets are a around the settleme Salthouse and Kellin and clusters of listed addition, the Glaven Area encompasses a landscape within this defined Glaven River and there are numer Monuments dotted a in the form of ancier (tumuli). 	ave not been er, areas of w plantings also contains some of the lowland heath in on of farmland to ouraged in other er of relatively intact ese balance each al influence on care will be needed <u>& cultural heritage</u> focussed in and nts of Blakeney, g (Conservation Areas I buildings). In Valley Conservation n extensive area of s LCT, beyond the r Valley LCT (RV5), rous Scheduled boross the landscape, at burial mounds designations within y associated with the vland heath (Kelling Downs are s, whilst Wiveton al Nature Reserve). a County Wildlife ley Park, in the designated as an dland. Sensitivity all forms of or otherwise s; however, in the				1 1					1

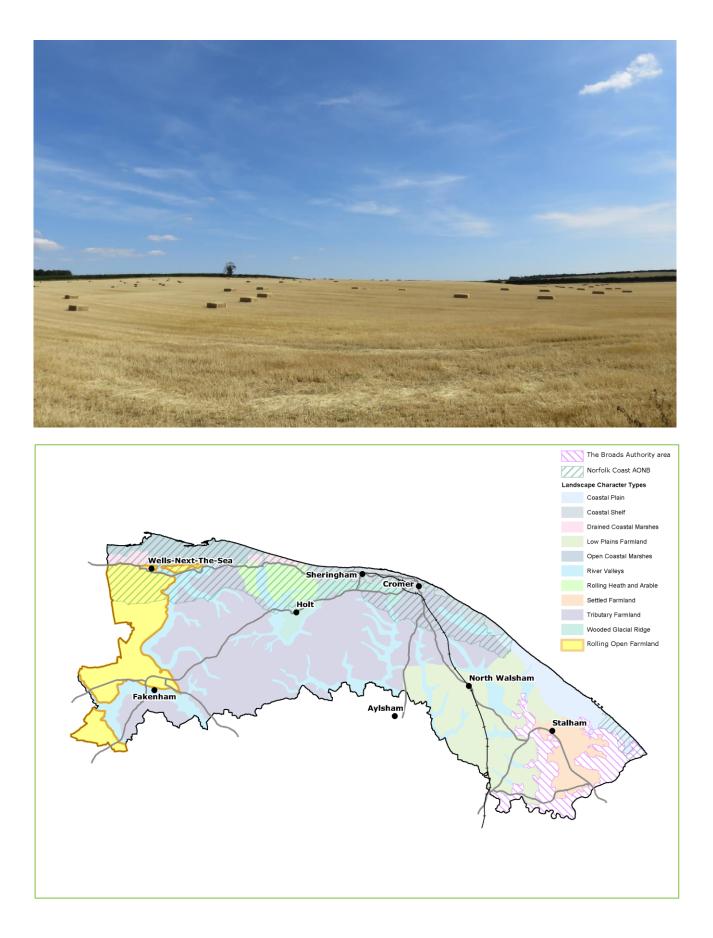
KEY	increas	tes generally e sensitivity to relopment type Attributes generally decrease sensitivity the development type			to strongly influence					Criterion/ development type not applicable		
Sens Crite	itivity ria	Characteristics of t	he LCT		ators o ach de	-	-		sceptib	oility a	nd valı	Je
				Large 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: The LCT includes some of the District's largest areas of Open Access Land, focused on the heathlands, and several PRoWs cross the LCT, including a short section of the Norfolk Coast Path along the coastline at Blakeney. Blakeney is also a hub for boat trips and seal watching trips, and the two Dark Sky Discovery Sites provide a notable and rare recreational resource.		1	1	1	Î	Î	Î	Î	Î	1
		Literary / artistic asse There are no known f literary/artistic assoc landscape character f	amous iations with this	-	-		-		—		—	-

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	High
	buildings such as those at Kelling Hall, have additional cultural heritage sensitivities.	
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.	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.	
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	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. 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.	Moderate- High



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-Nextthe-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 Characteristics¹⁷

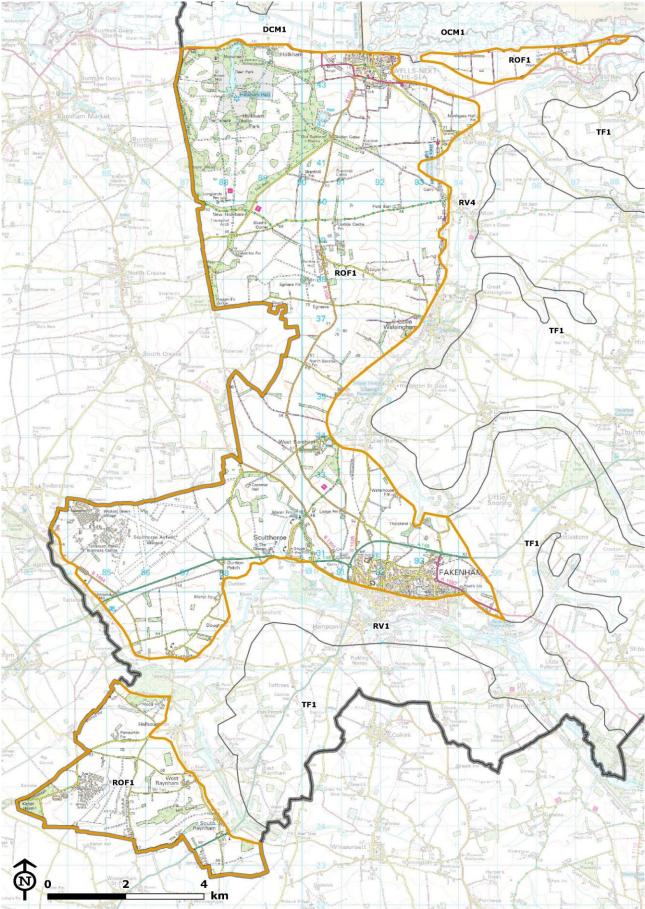
- Gently rolling terrain sloping down to river valleys and the coast
- Arable land use with large, geometric fields and low hedges
- Relatively low level of woodland cover
- Holkham Hall parkland
- Former airfields are prominent features
- An open, homogeneous character with expansive views
- Sparse, 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.

¹⁷ Detailed information about landscape character and valued features is set out in the North Norfolk Landscape Character Assessment (2018)

Location of ROF1



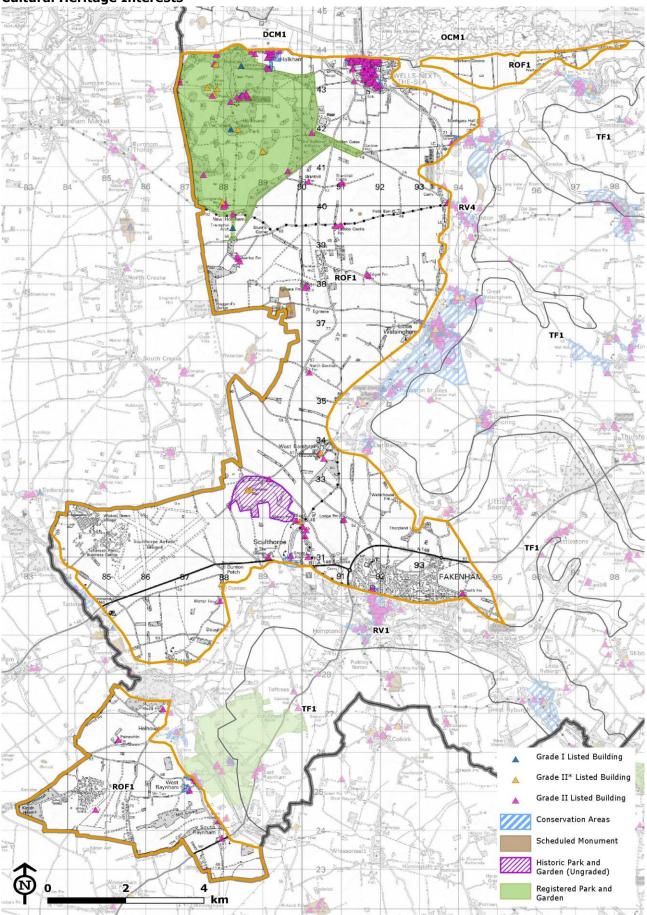
•••• National Trail DCM1 OCM1 AONB 🔀 Heritage Coast Open access (CRoW) **Policy Area** Undeveloped Coast TF1 RV4 ROF1 TF1 AKENHA RV1 TF1 ROF1 2 4 ⊐ km

Landscape Designations and Policy Area

DCM1 OCM1 ROF1 TF1 6 RV4 15-15 93 88 97 1 ROF1 37 TF1 TF a AKENHA RV1 Good quality semi-improved grassland TF1 SPA SSSI Lowland calcareous grassland Lowland dry acid grassland SAC Lowland fens LNR Lowland heathland NNR ROF1 Lowland meadows Ramsar site Mudflats Ancient & Semi-Natural Woodland Purple moor grass and rush pastures Ancient Replanted Woodland **Priority Habitats** Reedbeds Coastal and floodplain grazing marsh Saline lagoons Coastal saltmarsh Traditional orchard Coastal sand dunes No main habitat but additional habitats present 2 4 Deciduous woodland Fillen km the last

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 relopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	lence	-		ion/ opment oplicabl		*
Sensi Crite	itivity ria	Characteristics of t	he LCT		ators (ach de	_		ver sus /pe	sceptib	oility a	nd valı	эг
				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	graphy lines		ng down to river y undeveloped punctuated by atures, such as church oped skylines and the cularly those on the River Valleys LCT,	ſ	ſ	ſ	ſ	ſ	ſ	1	ſ	ſ
Landc	over	Predominantly arable level of woodland rel Woodland cover is hi Holkham Park and in around West Raynha parkland at Holkham typical arable landco will increase suscepti development types in	ative to other LCTs. gher around the far south m. The registered is in contrast to the ver of the LCT and ibility to all				-	ſ				
Sense openn enclos	ness/	Landscape has a ver- character due to the arable landcover and large field sizes, low sloping elevated plat lack of visual screeni generally increases s types of new develop	combination of lack of woodland, hedges and gently eau landform. This ng/containment usceptibility to most	1	1	1	1	1	Î	1	1	1
Scale (landf and compo featur	onent	Typically a large scal large, geometric field sparse settlement ler simple and regulated scale, simplicity and	ls, low hedges and nding an ordered, l character. This	Û	Î	Ţ	Û	*				ſ

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development typ	to	strong	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		≫
Sensi Crite	itivity ria	Characteristics of t	he LCT		ators o ach de	_		ver sus /pe	ceptib	ility aı	nd valı	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
landso patter comp	rn &	landscape pattern ge susceptibility to the r larger scale developr influence on the sma developments.	more expansive and ments. It has less									
remot ruralit level o huma influe Undev	uillity/ teness/ ty & of n	Strong sense of trans and traditional ruralit quiet farmland, which vicinity of the few se (particularly Fakenha extent Wells) and ma particular the A149 of busy tourist seasons absence of modern h development on the susceptibility to all ty relative to more 'dev	ty in large areas of h reduces in the ttlements am and to a lesser ain roads (in coast road and in). This general human influence and landscape increases ypes of built form,	1	1	1	1	1			1	1
Time histor contir		Historic landscape ty are dominated by ex century enclosures, t century agriculture a parkland associated of (Holkham Hall, Crann Barsham Hall). This t strongly influence su in the vicinity of the where susceptibility of increased to all deve	tensive 18th – 19th together with 20th and areas of informal with historic estates mer Hall and West typically does not sceptibility, except historic parklands, will be locally	_								
Value	e Criteri	a										
landso design and e to wh	nations extent ich special ies be		AONB increases the the landscape, as f development under ely to affect the ial qualities to some the undeveloped nse of remoteness, ness (and dark skies), listinctive visual links	1	1	1	1	1	1	1	1	1

i	increas	tes generally e sensitivity to relopment type	Attributes generally decrease sensitivity the development typ	to	strong	utes do gly influ ivity in ion	ence		Criteri develo not ap		*	
Sensiti Criteria	-	Characteristics of t	he LCT			of high velopm			ceptib	ility 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
Presence landsca designa and ext to which their sp qualitie could be affected	ape ations tent th becial es be	Outside the AONB the generally undesignat development outside still affect special qua including the sense o tranquillity and wildn skies), and the strong visual links between	ed, but built the AONB could alities within it, f remoteness, ess (and dark g and distinctive									
Other indicato value	ors of	High scenic quality: If outside the designate a degree of scenic qu attractive pattern of open farmland, and t uninterrupted views.	ed landscapes display ality by virtue of the undeveloped rolling	Î	1	1	Î	1	1	Î	Î	1
		Representativeness: LCT is relatively typic although Holkam Par important example o which increases sens this landscape featur	al arable farmland, k is a particularly f an historic park itivity in proximity to				-			-		
		Rarity: This area of a not a particularly rare	rable farmland is	Ţ	ſ	ſ	ſ	ſ	ſ	ſ	ſ	ſ
		Intactness: Typically post-18 th century ara maintained hedgerow	ble farmland with	Î	1	Î	1	1	1	1	Î	
		Nature conservation interests: Overall, co are relatively limited landscape, and conce areas where their pre sensitivity locally rath whole area. For exam interests include the Registered Park & Ga Hall within the northe which contains nume (also within the AONI Areas at Holkham, W West Raynham (also of listed buildings), a Monuments at Egmen	nservation interests in this arable entrated in small esence increases her than across the hple, key heritage extensive Grade I orden of Holkham ern part of the LCT, rous listed buildings B), Conservation ells, Sculthorpe and containing clusters nd Scheduled									

KEY	increas	tes generally se sensitivity to velopment type	to De	strong	utes do gly influ tivity in tion	lence	—	Criterion/ development type not applicable			≫			
Sens Crite	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		
		Castle. Nature conse designations are limit Wells Chalk Pit SSSI, orchid populations, a of ancient woodland Raynham.	ted to the small noted for its rich nd an isolated area											
		Recreational value: T Path National Trail ru northern boundary o sensitivity locally. Th area has local footpa greater recreational y countryside areas.	ns along part of the f the LCT, increasing e majority of the ths but has not	Ţ	Î	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ		
		Literary / artistic ass There are no known Rolling Open Farmlar	associations to the	-	-	-	-	-	-	-	-	-		

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.

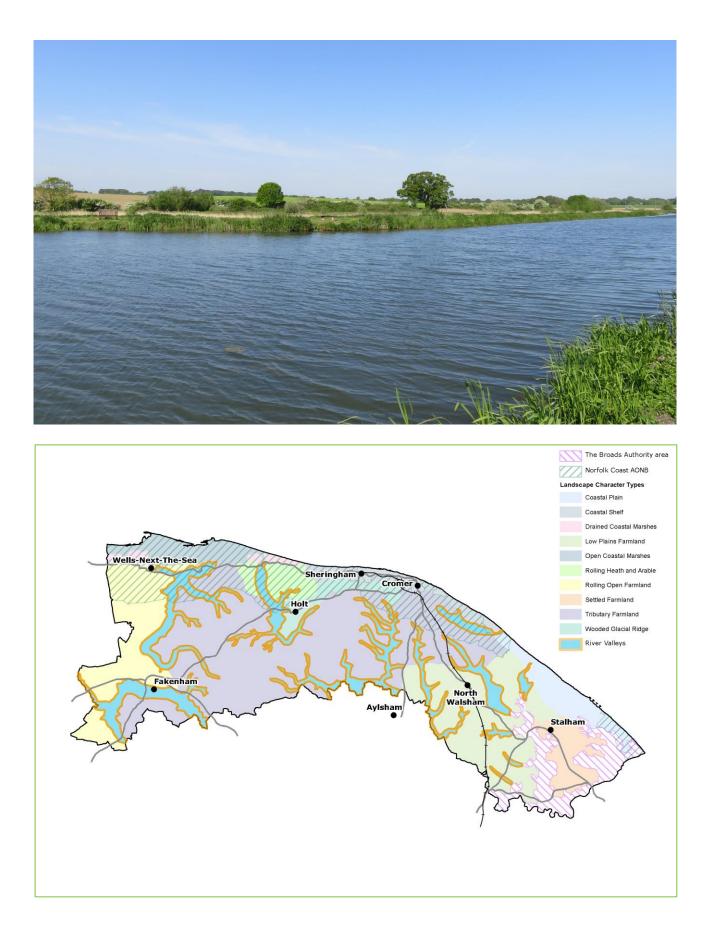
Overall sensitivity to different development types

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)	ουτ	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)	ουτ	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. In addition, the Grade I Registered parkland at Holkham Hall, the	High
		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)	OUT	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.	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.	

	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, tranquility 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 clusters of listed buildings) have additional cultural heritage sensitivities.	High
Field-scale solar PV development (above 10 hectares site area)	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 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 combination with existing mature linear shelter belts, woodland blocks and higher hedgerows may afford greater visual screening and containment of solar panels.	Moderate- High
	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 (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)	OUT	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	Ουτ	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	Moderate

plants (typical size range 2.5 – 8		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.	
ha)		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.	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.	
Reservoirs (typical size range 2 – 5ha)	ουτ	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.	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.	
	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 this landscape. Overall, typical sensitivity to reservoir development in the AONB is considered to be moderate-high.	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.	- nign



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

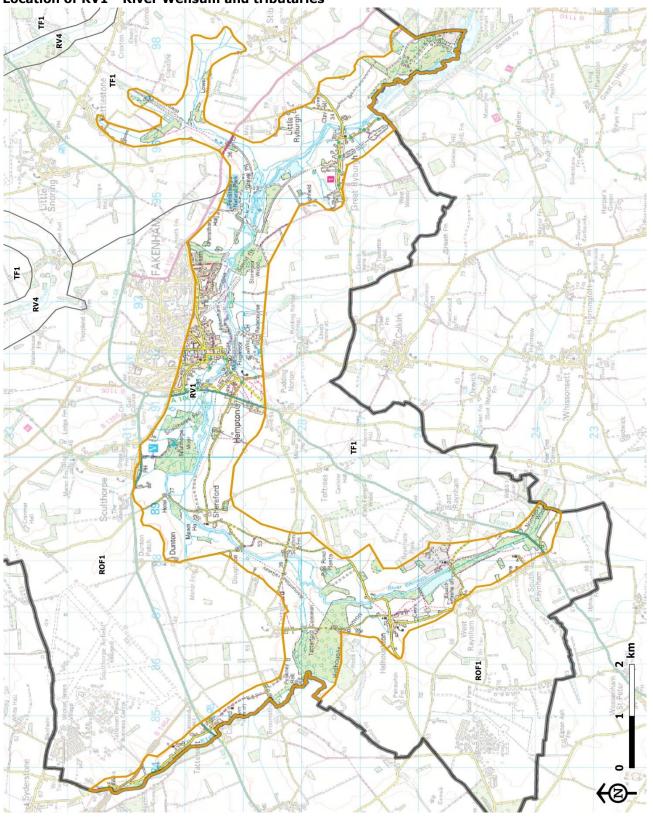
Key Characteristics for Type¹⁸

- 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

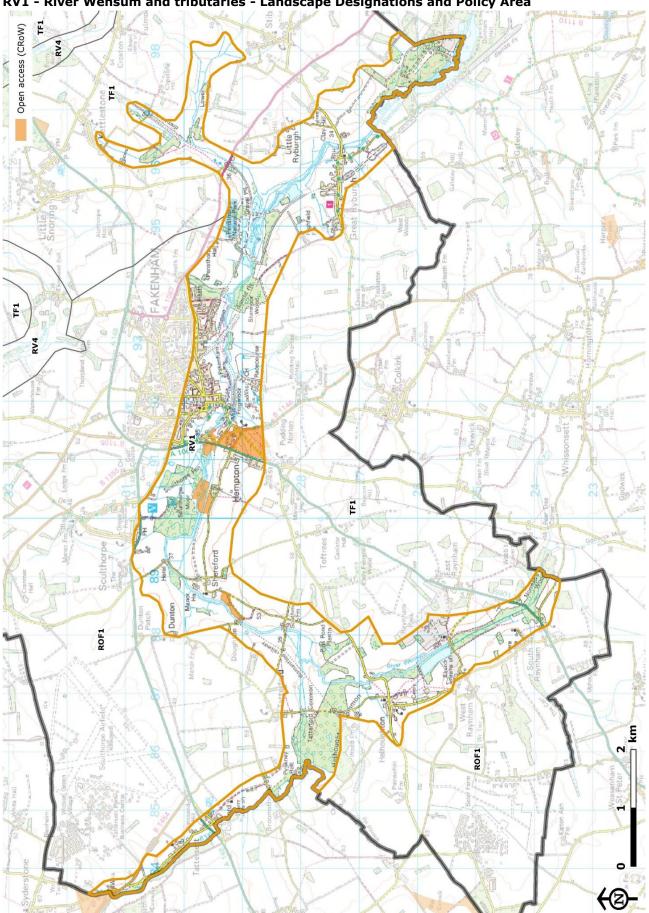
Valued features and qualities

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

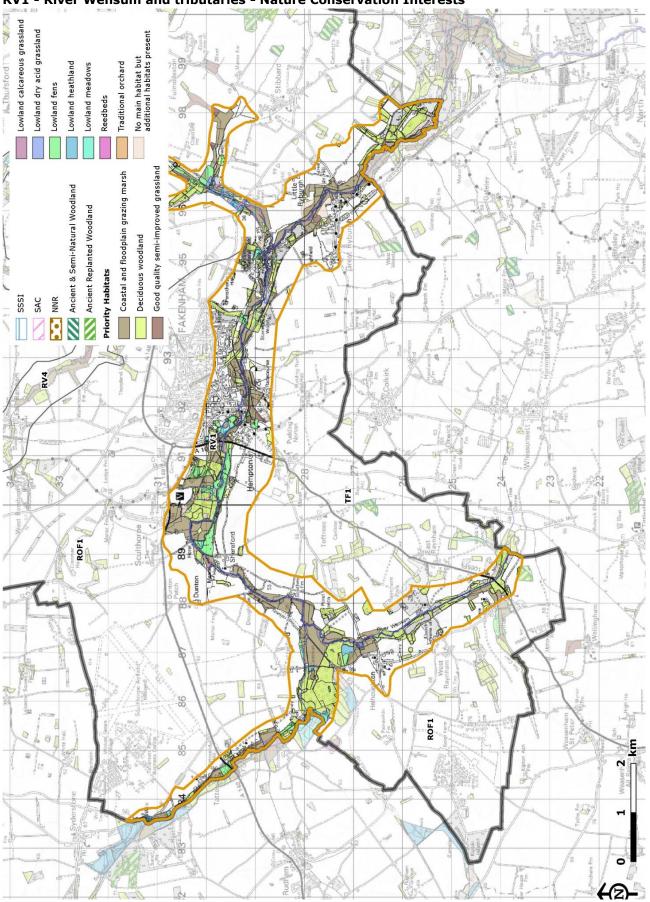
¹⁸ Detailed information about landscape character, including characteristics specific to each Character Area, and valued features is set out in the North Norfolk Landscape Character Assessment (2018)



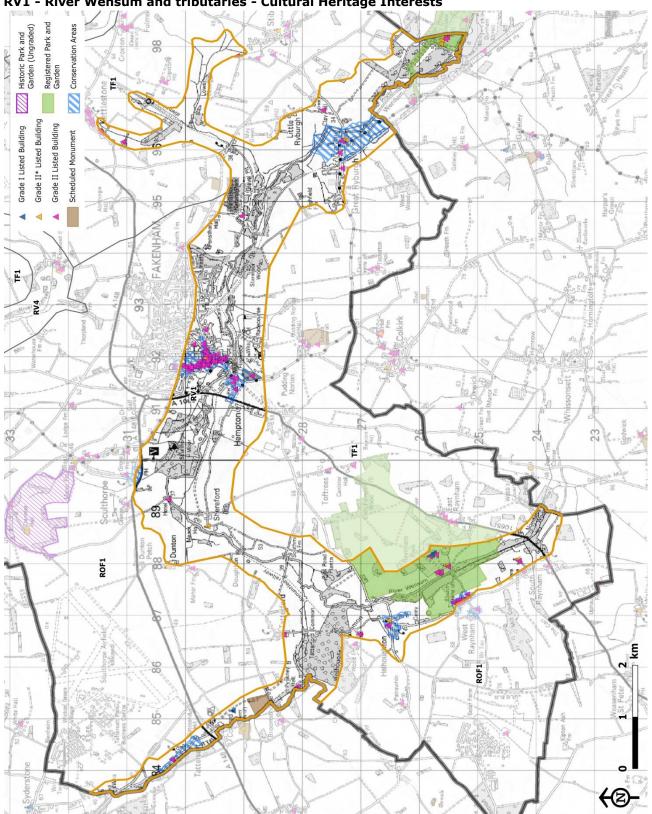
Location of RV1 - River Wensum and tributaries



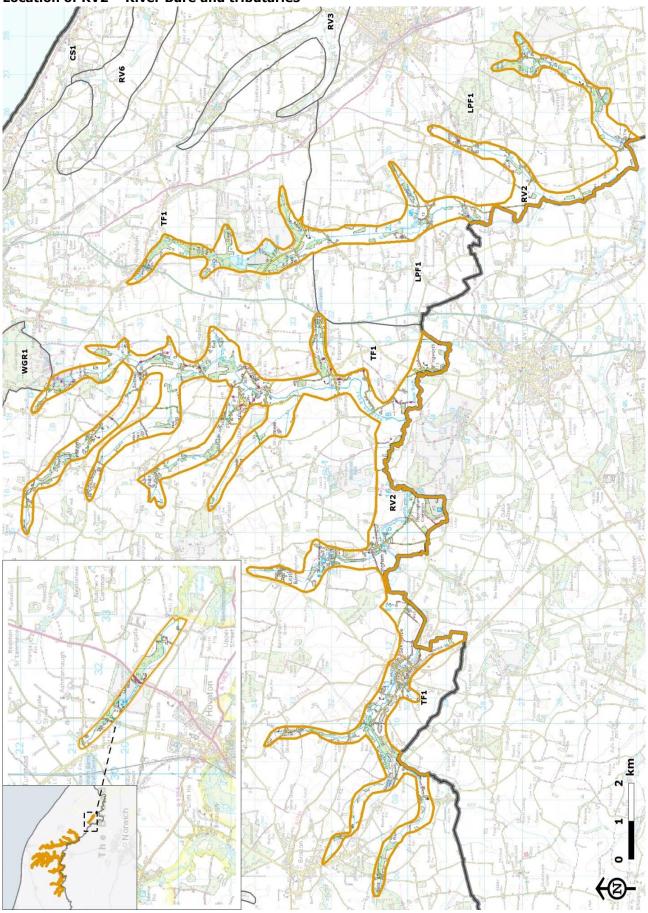
RV1 - River Wensum and tributaries - Landscape Designations and Policy Area



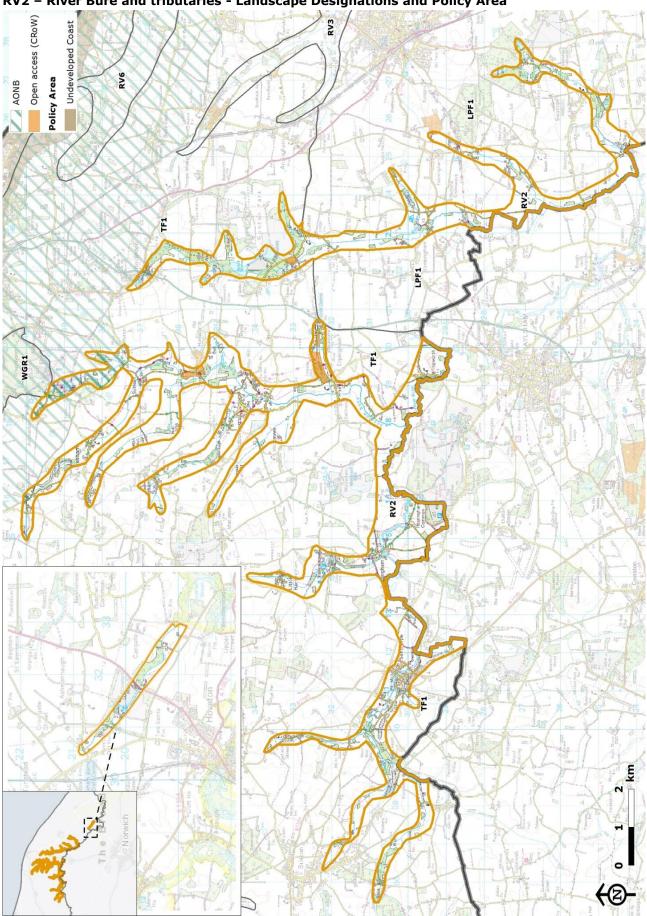
RV1 - River Wensum and tributaries - Nature Conservation Interests



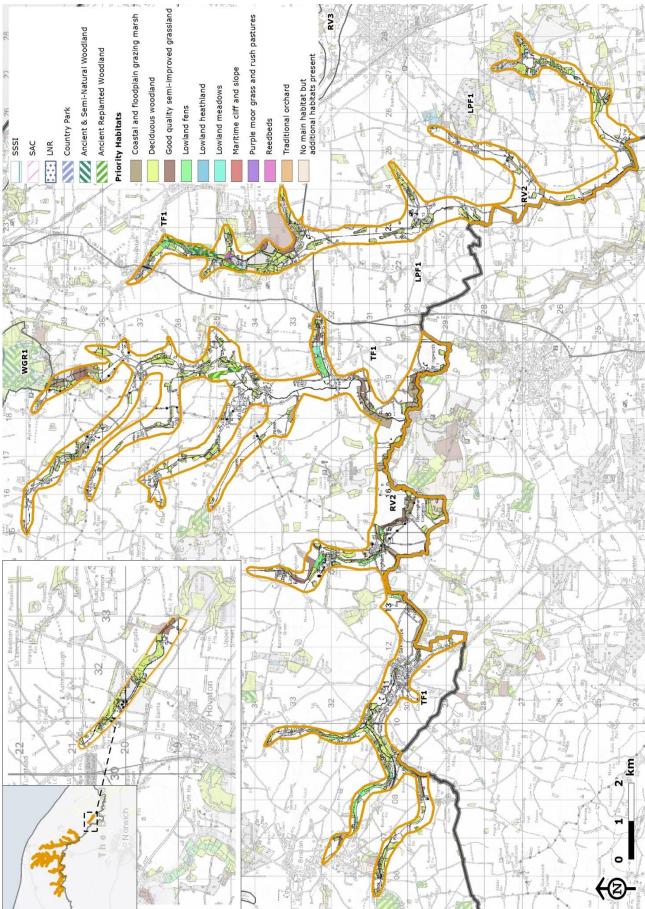
RV1 - River Wensum and tributaries - Cultural Heritage Interests



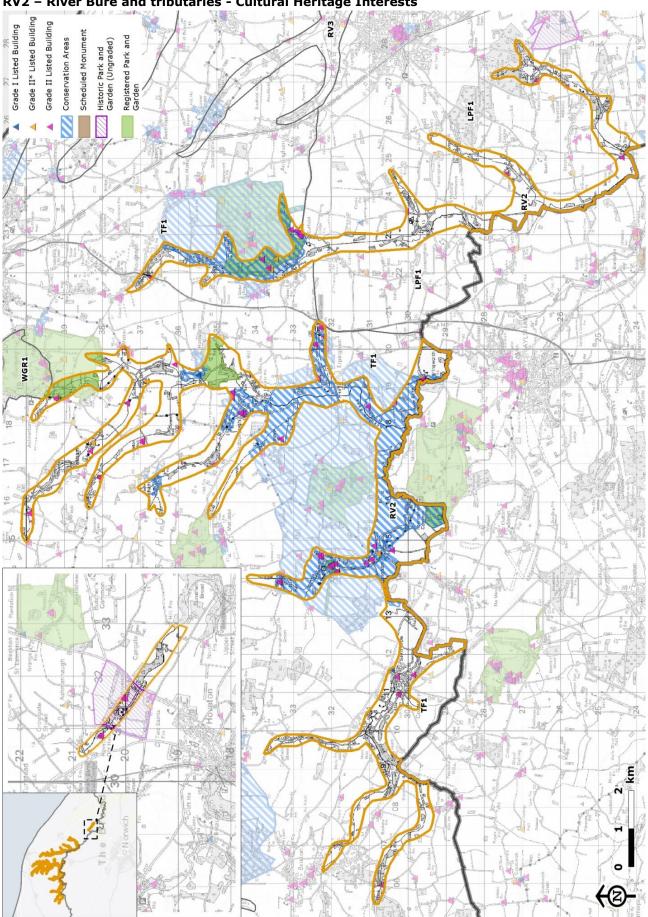
Location of RV2 – River Bure and tributaries

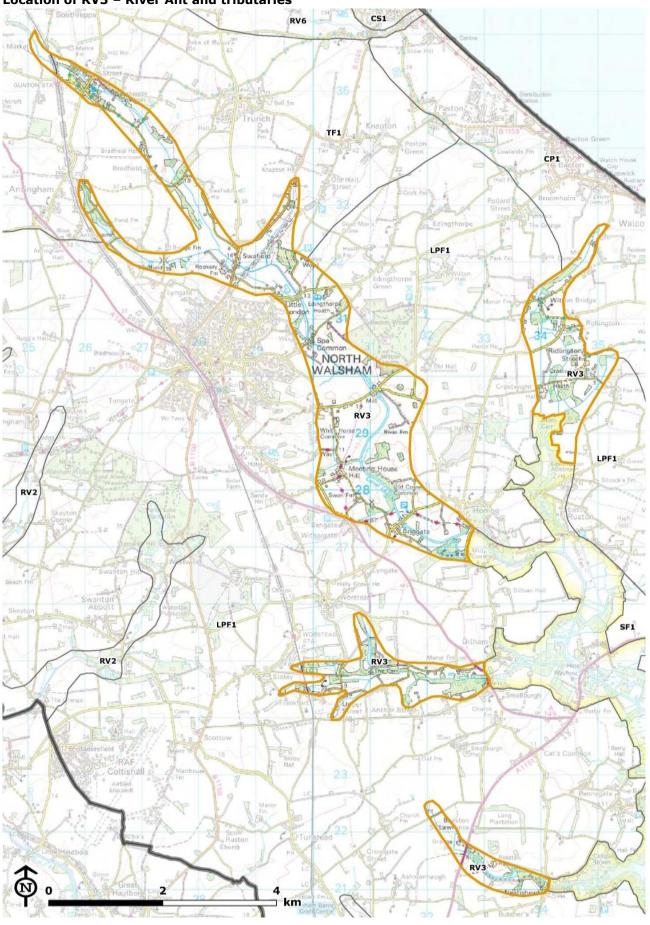


RV2 – River Bure and tributaries - Landscape Designations and Policy Area

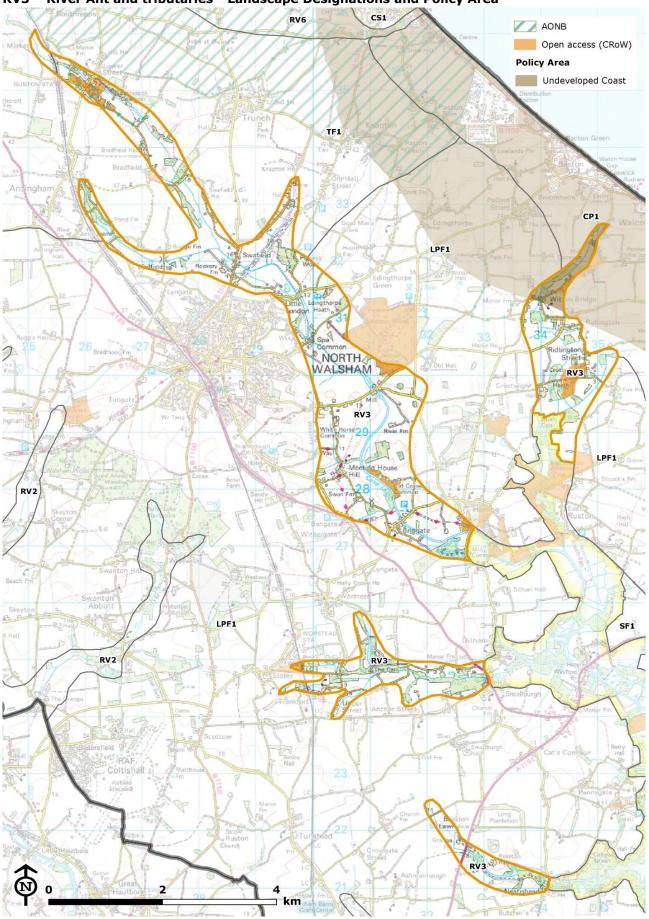


RV2 – River Bure and tributaries - Nature Conservation Interests

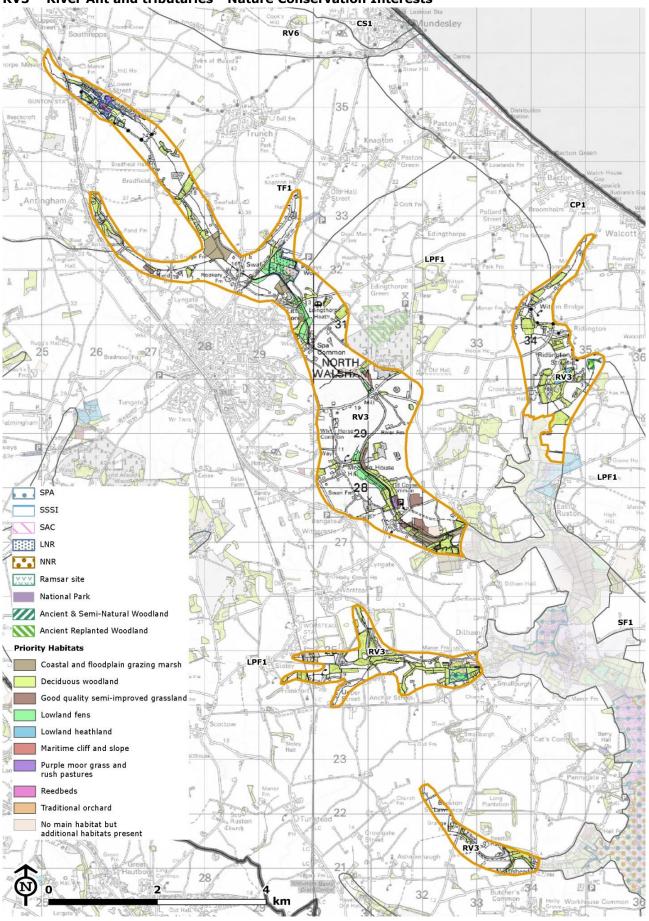




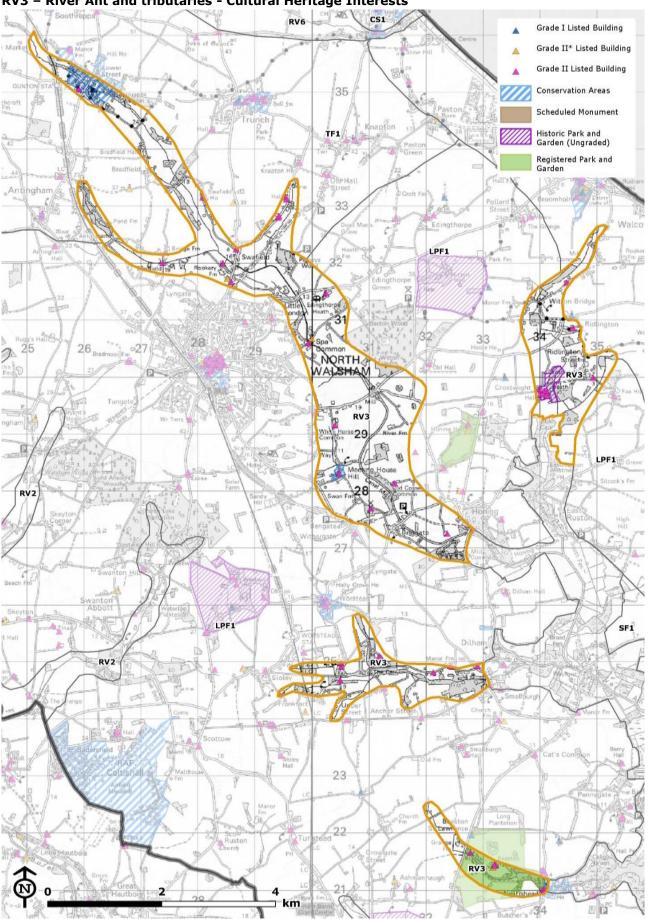
Location of RV3 – River Ant and tributaries



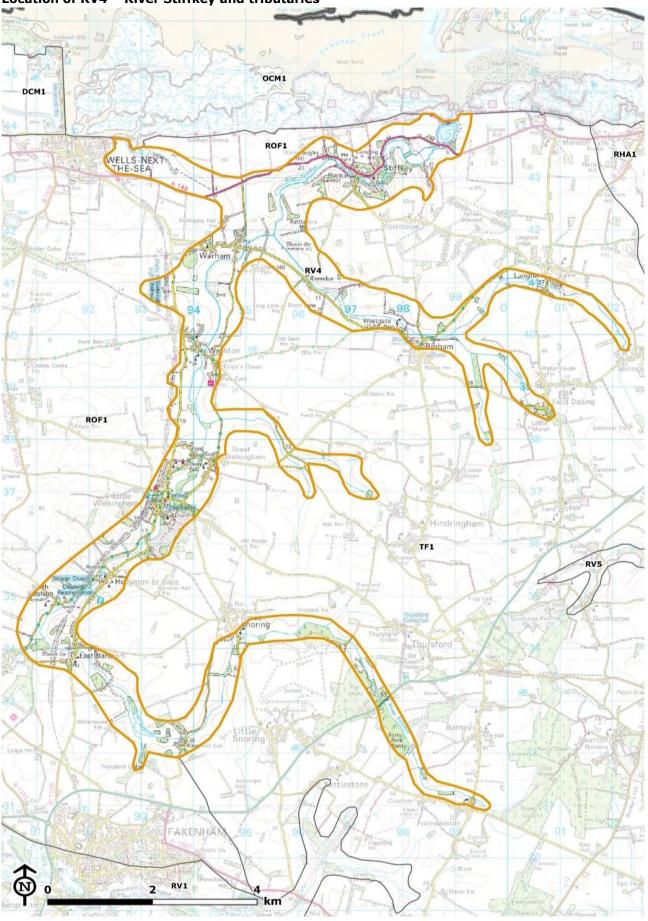
RV3 – River Ant and tributaries - Landscape Designations and Policy Area



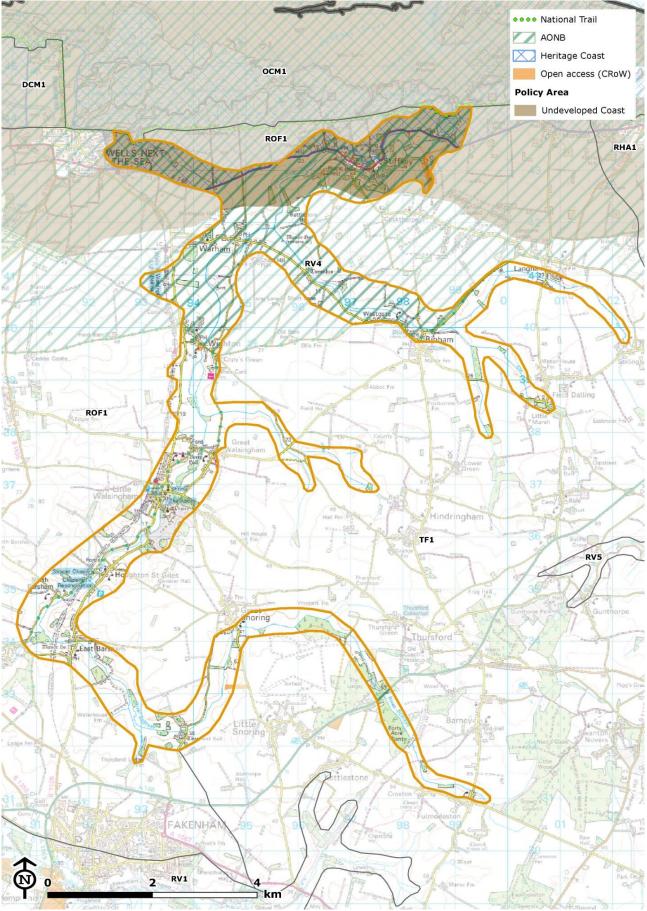
RV3 – River Ant and tributaries - Nature Conservation Interests



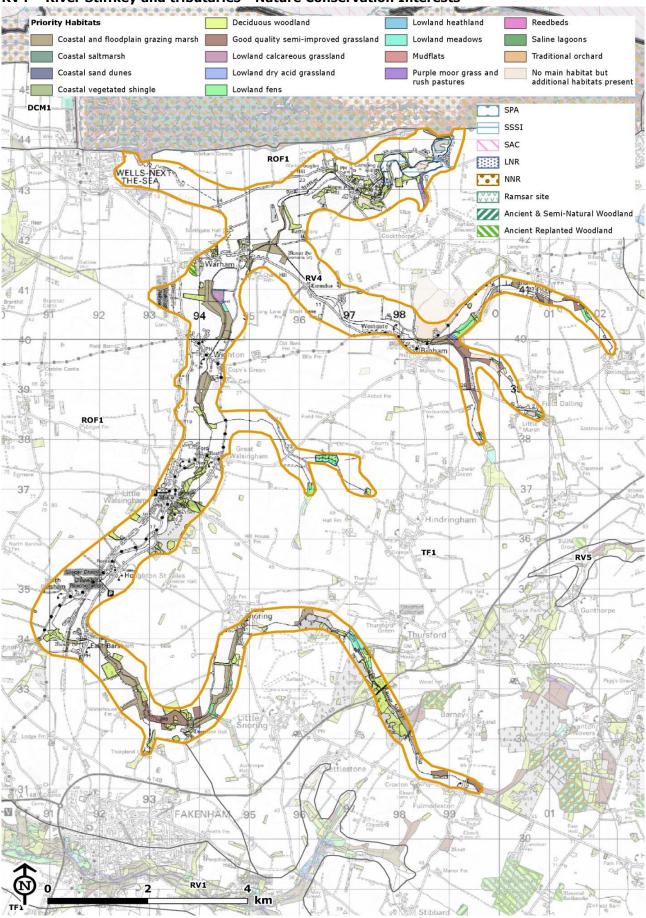
RV3 – River Ant and tributaries - Cultural Heritage Interests



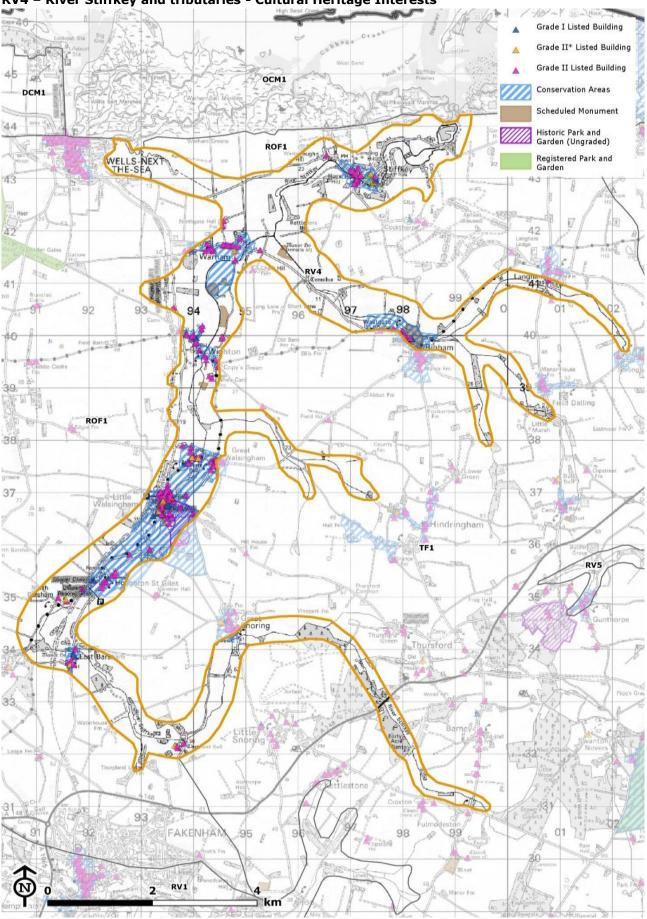
Location of RV4 – River Stiffkey and tributaries



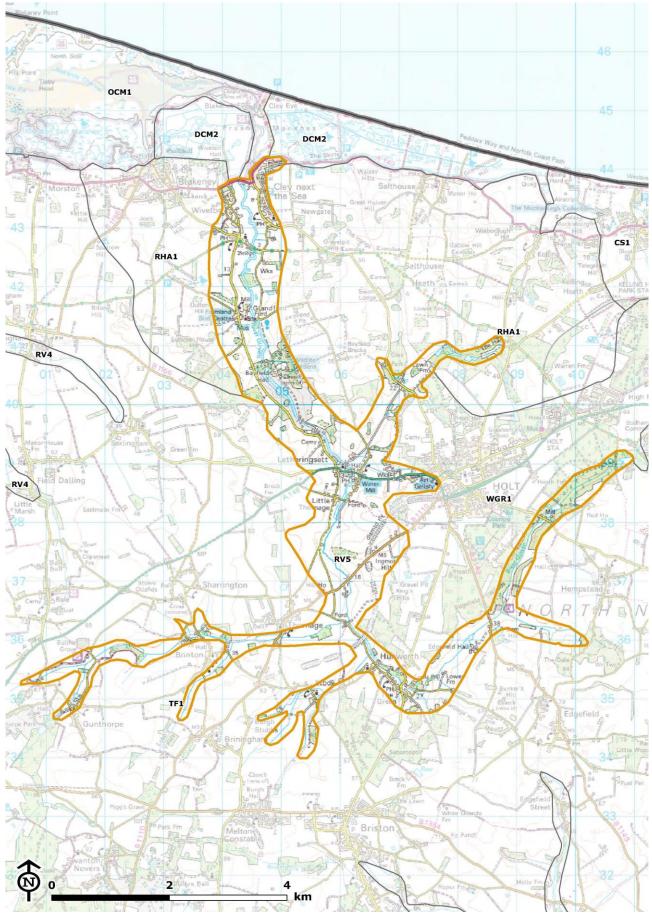




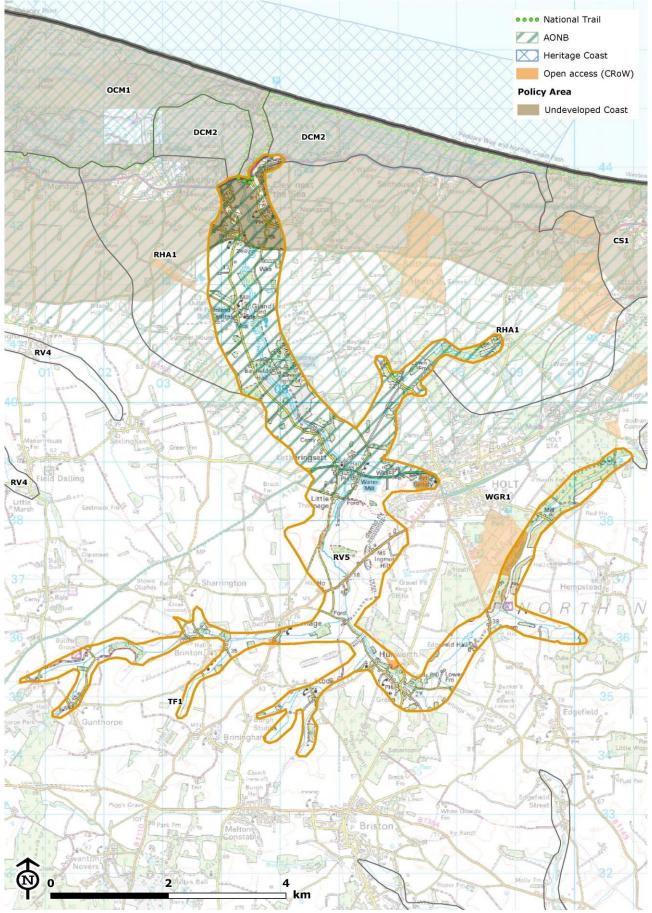
RV4 – River Stiffkey and tributaries - Nature Conservation Interests



RV4 - River Stiffkey and tributaries - Cultural Heritage Interests

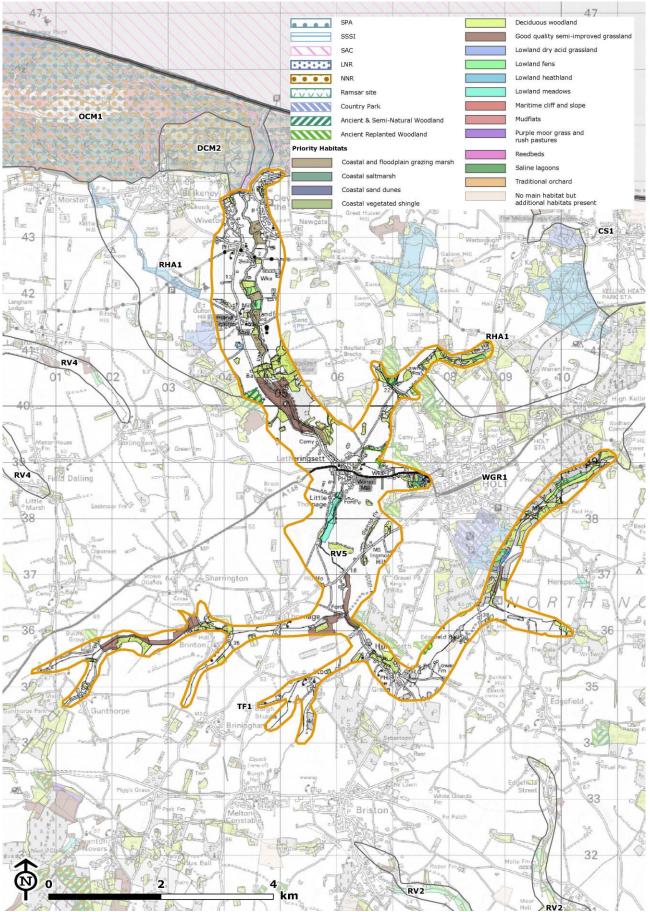


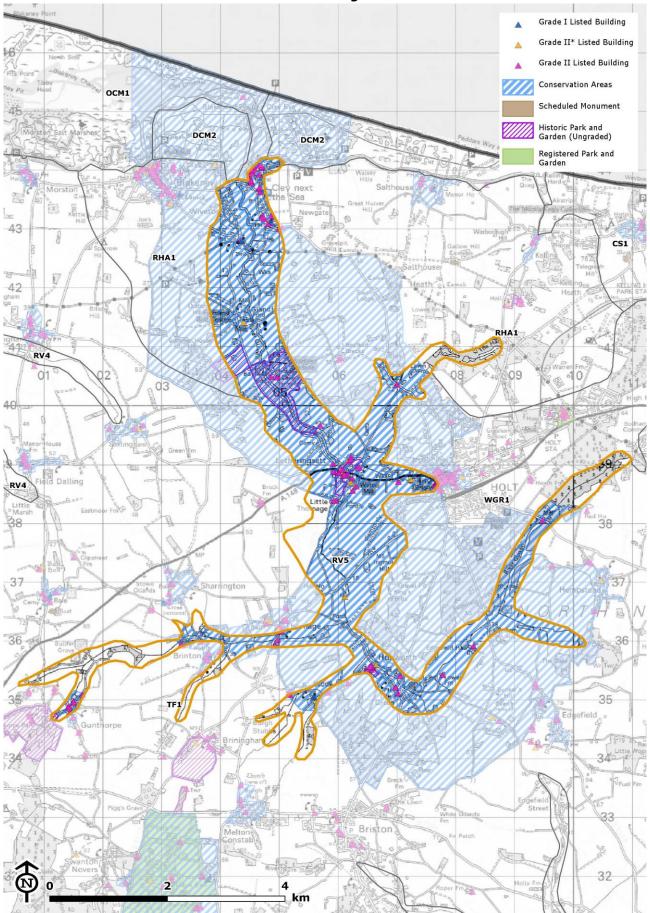
Location of RV5 – River Glaven and tributaries



RV5 – River Glaven and tributaries - Landscape Designations and Policy Area

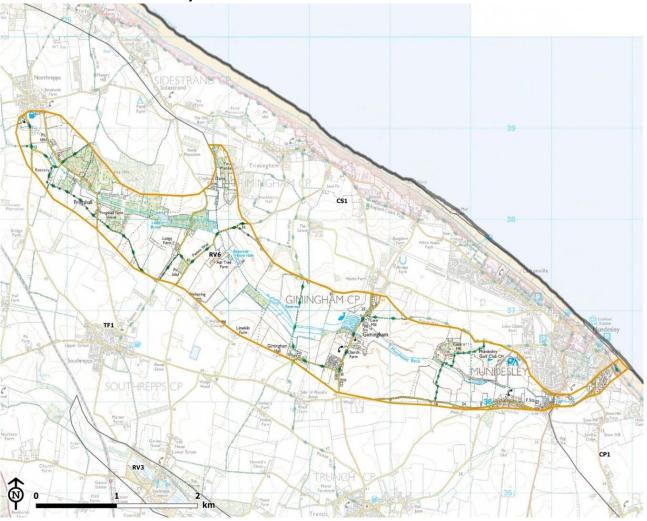
RV5 – River Glaven and tributaries - Nature Conservation Interests

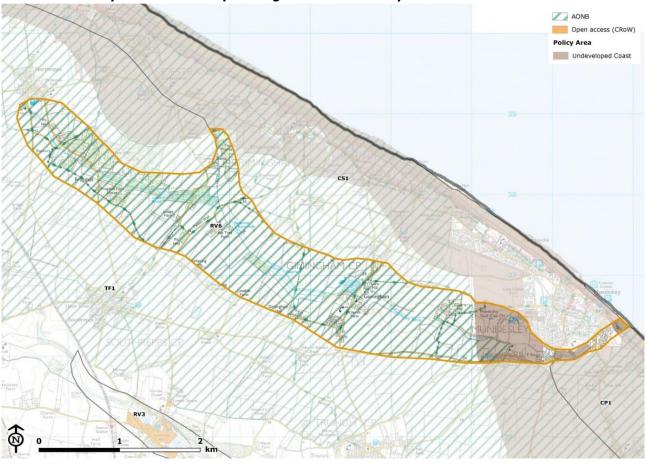




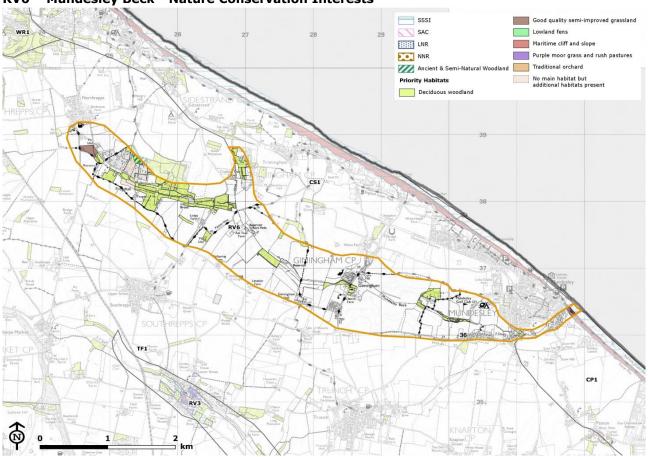
RV5 – River Glaven and tributaries - Cultural Heritage Interests

Location of RV6 – Mundesley Beck

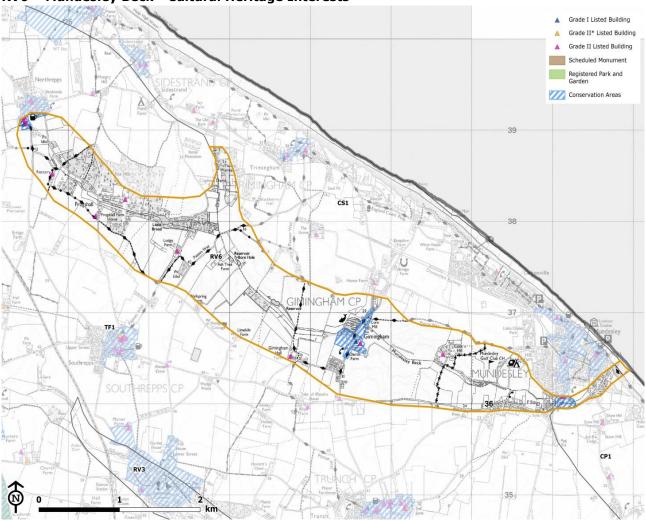




RV6 – Mundesley Beck - Landscape Designations and Policy Area



RV6 – Mundesley Beck - Nature Conservation Interests



RV6 - Mundesley Beck - Cultural Heritage Interests

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	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		stron	utes do gly influ ivity in ion	lence	-	Criter devel not a	ion/ opment pplicabl	type e	*
Sensit Criter	-	Characteristics of t	he LCT			of high velopn			sceptib	oility a	nd valı	ər
				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										
Topogi & skyli		is the largest river in typical wide valley flo indistinct, valley side indistinct, complex fo and small hills in the valley, and the Stiffk	hark historic features rs sited on valley , Bessingham) are hich generally to tall features, such ich could dominate y sides. The Wensum the District, with a bor and low, often s; the Ant has an orm with terracing context of a larger ey and Glaven oast are deeper than have higher s such as field scale ts, cable routes or hich would be more	ſ	ſ	ſ	ſ	ſ	ſ	ſ	ſ	ſ
Landco	over	River valleys have gr diversity than the bro landscapes that typic including higher leve pasture. There is son between the more di and the less diverse within adjacent Char are often in arable us natural landcover ele sensitivity to all type	bader arable cally surround them, is of tree cover and netimes a transition verse valley floors higher valley sides, acter Areas, which se. A diversity of ments increases	1	1	1	1	ſ	1	1	1	1

KEY	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity the development ty	to	strong	utes do gly influ tivity in tion	lence	-		ion/ opment oplicabl		≫
Sensi Crite	itivity ria	Characteristics of t	he LCT		ators (ach de			ver sus /pe	sceptib	oility a	nd valı	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
Sense openr enclos	ness/	Valley floor vegetation hedgerows – often pre enclosure that contra openness of much of farmland, but typical to a relatively narrow valley sides are gene and their elevation all creates a degree of or within the context of the wider landscape. balance each other or sensitivity to wind tu cable routes and rese developments. Local woodland may reduct	rovides a sense of ests with the the surrounding ly this relates only belt of land. The rally more open, bove valley floors openness albeit containment from These attributes ut in terms of rbines, solar PV, ervoir ised enclosure by e sensitivity to						ļ	ļ	Ţ	
Scale (landf and comp featur landso patter comp	form onent res), cape rn &	River valley landscap complex, smaller-sca cover than the arable which they are largel Association with wate topography means th more sinuous and les the dominant landsca adjacent farmlands. I villages and narrow o to complexity and the the landscape. These sensitivity to all deve	le mosaic of land e farmlands by y contained. ercourses or sloping hat shapes are often as geometric than ape pattern in Frequent small connecting lanes add e 'human' scale of a factors increase	1	1	1	1	×	Î	1	Î	ſ
remot ruralit level o huma influe Undev	uillity/ teness/ ty & of n	The river valleys are but for the most part small rural villages, of character recognised Conservation Area de connected by minor r from the wider lands sense of rural tranqu increases sensitivity types.	this consists of often with a historic through esignations, roads. Containment cape also adds to a illity which	1	1	1	1	1	1	1	1	

ind	tributes generally crease sensitivity to development type Attributes generativity to the development	ity to	strong	utes do gly influ ivity in ion	ence	-		ion/ opment oplicabl		≫
Sensitivi Criteria	ty Characteristics of the LCT		ators o ach de	_			sceptib	oility an	nd valı	le
		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 dep historical continuity	valley landscapes mean that the	1	1	1	1	1	1	1	1	Î
Value Cr	iteria									
Presence landscape designation and exter to which their spec qualities could be affected	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. Any of th	e ise t an	1	1	1	1	1	1	1	1
Other indicators value	High scenic quality: The contrast between open, large-scale arable farmland and the smaller-scale, more varied and more wooded river valleys outside the AONB and Heritage Coast, is valued as adding to scenic	1	1	1		1	1	Î	1	1

KEY	increas	ites generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		≫
Sens Crite	itivity ria	Characteristics of t	he LCT		ators o ach de	_		уре	sceptib	oility a	nd valı	Je
				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
		quality. Historic vern woodlands, hedgerov parkland trees and la to scenic quality and valley landforms pern This scenic quality in development.	vs, meadows and kes also contribute sense of place, and nit scenic views.									
		Representativeness: Although valued in th the river valleys are terms, considered pa examples at a nation	not, in landscape rticularly important					-			-	_
		Rarity: Chalk streams, of wh Stiffkey, Glaven and are rare, ecologically associated floodplain fens and wet woodlar valued and have a hi However, the majorit valleys is not priority developments could	ich the Wensum, Mun are examples, rich habitats, and grazing marshes, nd are likewise gher sensitivity. cy of land in these habitat, so					_		I		_
		this ecological constru- Intactness: Although well-treed, little ancient woodlar have been less affect intensive agriculture landscapes. The num intact historic village substantial developm valleys, so they typic to have a degree of i raises sensitivity to d	the valleys have ad; however they ed by 20 th century than adjacent ber of relatively s reflects the lack of eent within river ally are considered ntactness that	ſ	ſ	ſ	ſ	Î	ſ	ſ	Î	ſ
		Nature conservation interests: Heritage assets are f more commonplace t areas where arable fa predominant land use	requent, and typically han in adjacent arming is the	Î	1	ſ	1	1	ſ	ſ	Î	ſ

KEY	increas	ites generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	ence			ion/ opment oplicable		≫
Sensi Crite	itivity ria	Characteristics of t	he LCT		ators o ach dev	-			sceptib	ility ar	nd valı	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
		Conservation Area) a historic villages. The Parks & Gardens (e.g Gunton Park and Bee	of Conservation t all of the Glaven he Bure Valley and ington and Wolterton ind many small re are also Registered J. Raynham Park, eston Hall) which eys. The frequency of gnations increases lopment types. ervation much smaller area e ones, and are the Wensum than I trails or significant ssociated with river lower reaches of and Mun are visible ay and Norfolk well-used coastal tinations (Wells, Historic villages									
		recreational visitors, part the Landscape T recreational use. Literary / artistic asso Betjeman wrote a po which references the century poet George Itteringham Church v	ype has limited ociations: em ('Norfolk', 1954) Bure, and 20 th Barker is buried at									
		the River Bure, but n adds significant value landscapes at a strat	either association e to river valley								-	

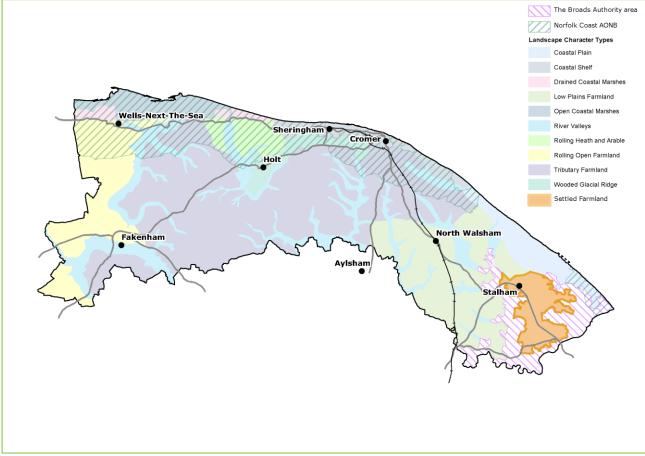
Overall sensitivity to different development types

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)	ουτ	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 . Areas of particularly high sensitivity are associated with locations in proximity to the AONB and Heritage Coast designations, Conservation Areas and historic	High
		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)	OUT	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 .	Moderate-
		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.	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 hectares site area)	ουτ	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
		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 -	ουτ	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.	
80m clearance)		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
	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)	ουτ	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 . In shallower upper valley locations, where screening potential is more limited,	Moderate- High
and Anaerobic digestion plants		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.	
(typical size range 2.5 – 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 Characteristics¹⁹

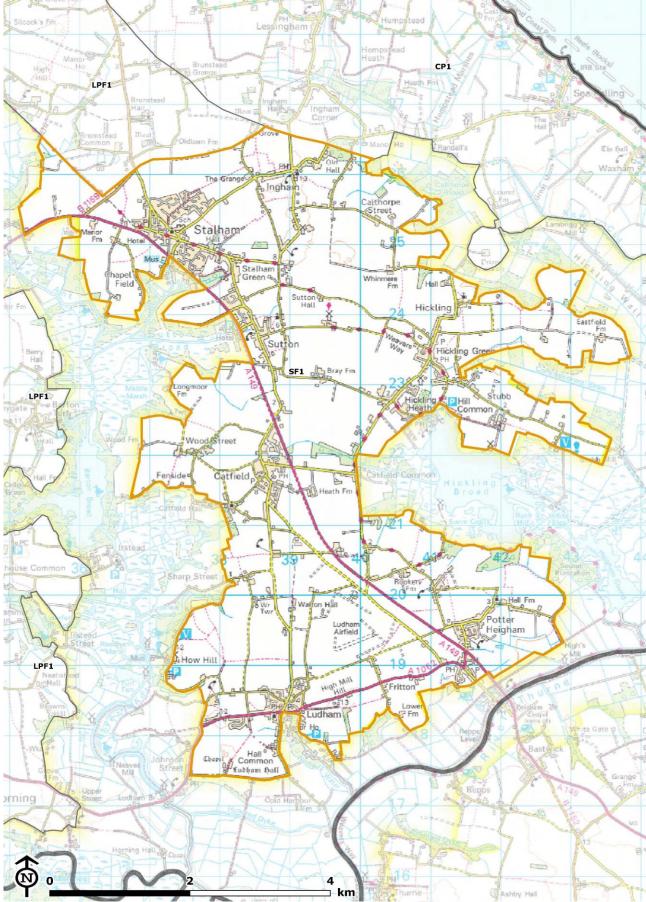
- Flat or very flat terrain, with watercourses limited to running ditches
- A rural landscape in which arable land use predominates with small pockets of pasture around settlement and some farmsteads
- An open landscape with large fields bounded by ditches, grassed banks and low hedges
- Low woodland 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

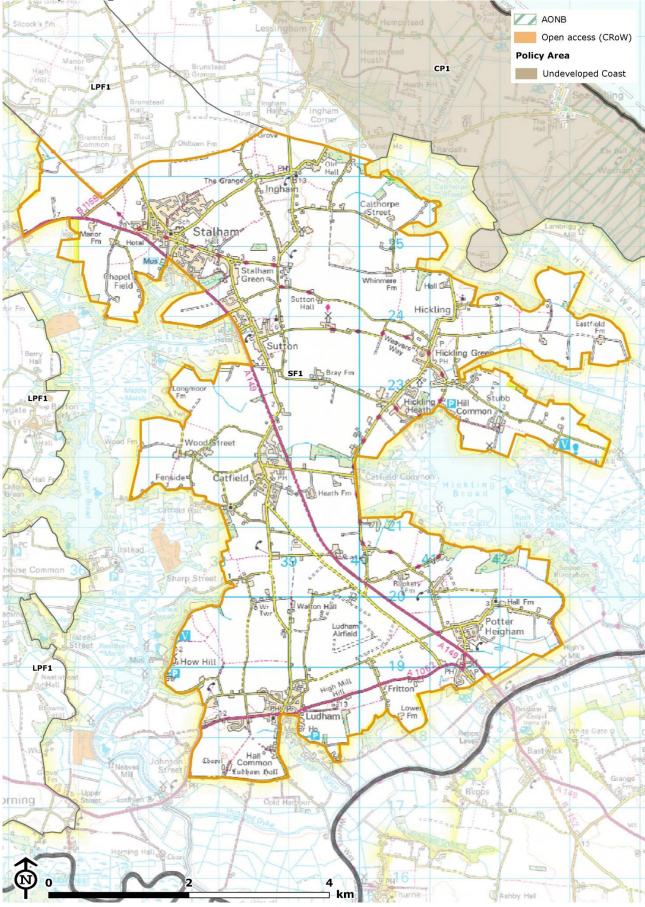
- Strong rural character with a sense of remoteness and tranquillity
- Highly productive farmland
- Remnant semi-natural habitats
- Historic market towns and villages with vernacular buildings
- Rural lanes
- Long views punctuated by distinctive skyline features including numerous church towers
- Treed horizons

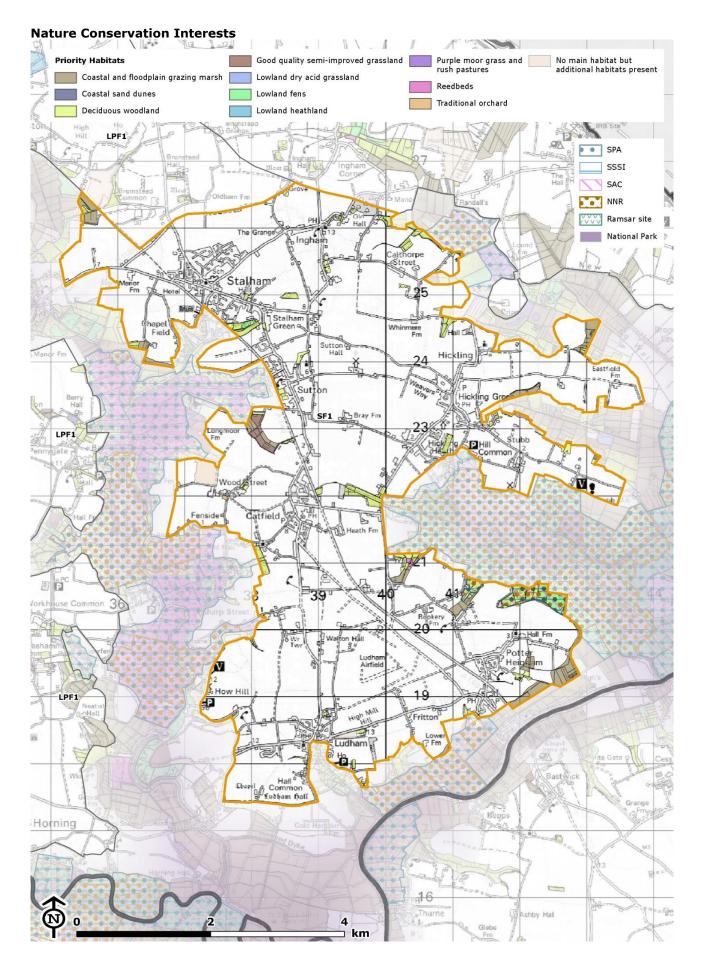
¹⁹ Detailed information about landscape character and valued features is set out in the North Norfolk Landscape Character Assessment (2018)

Location of SF1

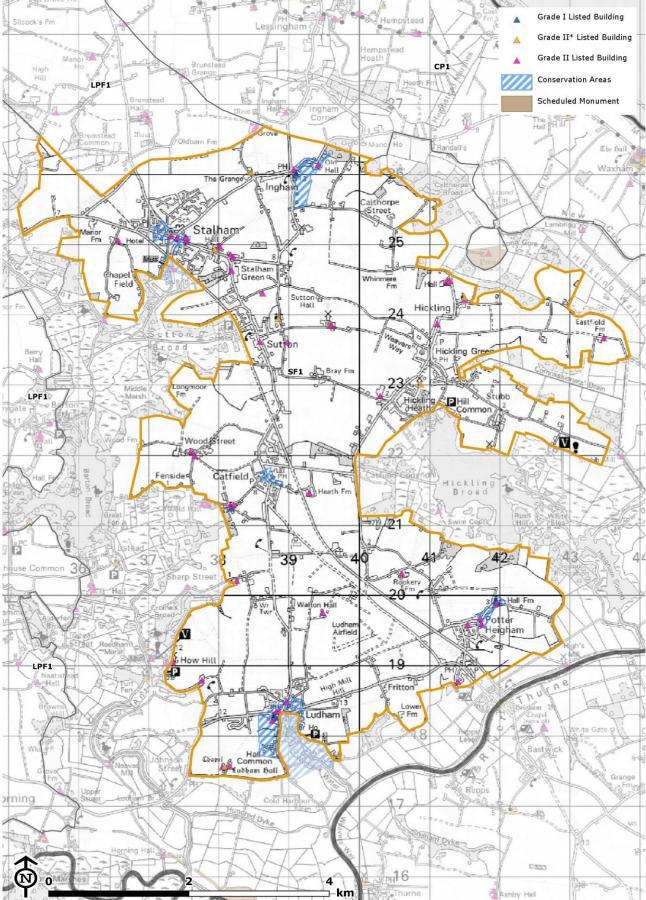


Landscape Designations and Policy Area





Cultural Heritage Interests



Landscape Sensitivity Evaluation

Criteria Appraisal

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.

	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		stron	utes do gly influ tivity in tion	lence			ion/ opment oplicabl		*
Sensiti Criteri	-	Characteristics of t	he LCT			of high velopn		ver sus /pe	sceptib	oility a	nd valı	эг
				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
Suscep	ptibilit	y Criteria										
Topogra & skylir		Generally undevelop by arable farmland a occasionally punctua landmark features or settlement fringes. T lowers sensitivity to onshore cable routes easily perceived in fla	d 7m above sea level. ed skylines, formed nd Broads woodland, ted by historic r interrupted by the flat landform solar farms and s, which are less at landscapes, whilst pric landmark features oped skyline ndform to increase cructures such as rvoir embankments ated into flat e sensitivity is	Î	1	1	Ţ	Ţ				1
Landco	ver	Predominantly arable low level of woodland LCTs, which does not sensitivity in either d exception of onshore arable is easier to re trenches than more landcover. Small are pasture fields around and wet woodland ar around the Broads fr higher sensitivity to types due to their mo qualities and ecologie	d relative to other t strongly influence lirection, with the cable routes, as store above cable naturalistic as of remnant d older settlements, nd grazing marsh inges, will have all development ore naturalistic					Ţ				

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development ty	to	strong	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		*
Sensi Crite	itivity ria	Characteristics of t	he LCT		ators o ach de	_			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
Sense openr enclos	ness/	Landscape has a typi exposed character du combination of the flu- landcover, large field boundaries comprisin ditches or low hedges of visual screening/co generally increases s development types. enclosure is locally in proximity to the tree neighbouring Broads, correspondingly lowe indicator.	ue to the at landform, arable sizes, and field og low banks, s. This relative lack ontainment ensitivity to all The sense of ocreased in close d horizons of the , which will	1	1	Î	1		Î	1	Î	
Scale (landf and compo featur landso patter compo	form onent res), cape rn &	The large, regular ar- field boundaries incre- scale of the landscap counterbalanced by t settlement pattern of farmsteads and the t with historic building remnant pasture field roadside/field oaks, v frequent human-scal landscape. Therefore relevant developmen strongly influenced in this criterion.	ease the apparent e; however, this is he semi-dispersed f traditional villages, own of Stalham, s and smaller ds, and scattered which introduce e features into the , sensitivity to all t types is not				-	*				
remot ruralit level o huma influe	uillity/ teness/ ty & of n	A relative sense of tr remoteness and trad prevails in areas of q from the main roads. a general sense of m influence throughout landscape due to the roads, intensive arab modern built form as industry and some se This results in an ove influence on sensitivi development types. I increased susceptibili	itional rurality uiet farmland away There is, however, odern human much of this presence of busy le agriculture and sociated with farms, ettlement fringes. erall neutral ty to all Localised areas of									

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		≫
Sensi Crite	itivity ria	Characteristics of t	he LCT		ators o ach de	-		ver sus vpe	ceptib	oility au	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
		Broads fringes; notal remote east of the LC										
Time histor contin		Historic landscape ty are dominated by 20 agriculture, which ge sensitivity to all type except in the vicinity settlements, which d sense of time depth.	th century nerally lowers s of development, of the historic	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	₽		Ţ
Value	e Criteri	a										
landso design and e to wh	nations xtent ich special ies be	There are no designate within the LCT; however relationship with the surrounds the LCT or most instances views landscape from the L its extensively wooder there are more open woodland does not open boundary.	ver, it has a close Broads, which a three sides. In of the Broads CT are restricted by ed fringes, although views where	ſ	ſ		-	_				
		The AONB is also loca the LCT, beyond the locations the separat the AONB is under 14	Broads. In some ion distance from									
		The proximity to thes landscape designatio overall sensitivity of taller developments, turbines, which may visible on the otherw skyline within the Bro and be likely to adve special qualities of na including the undeve sense of remoteness Sensitivity to all othe	ns will increase the the landscape to such as larger wind be more widely ise undeveloped oads and the AONB, rsely affect their atural beauty, loped character, and tranquillity. r development types									
		may also be locally ir proximity to the bour National Park, where may be similarly affe	ndary of the Broads the special qualities									

i	increase	es generally e sensitivity to elopment type	Attributes generally decrease sensitivity the development typ	to	strong	utes do gly influ ivity in ion	ence			ion/ opment oplicable		≍
Sensiti Criteria	-	Characteristics of t	he LCT			of high velopm			ceptib	ility ar	nd valı	le
				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 indicato	ore of	High scenic quality:										
value		The landscape displation scenic quality by virtue combination of attractive vernacular settlement and remnant field/room hedgerows, which is the extensive, flat and farmland, and occasion scale modern develop infrastructure.	ue of the tive historic ts, treed horizons adside oaks and counterbalanced by d regular arable onal intrusive large-								-	
		Representativeness:										
		The majority of the L typical arable farmlar		↓	Ţ	Ţ	Ţ	Ţ	Ţ	↓	Ţ	Ţ
		<u>Rarity:</u>										
		No rare landscape ty	pes present.	↓	Ŷ	Ţ	Ŷ	Ŷ	Ŷ	↓	↓	Ŷ
		Intactness Intactness of the land adversely affected by intensive agriculture hedgerow removals.	20 th century	Ţ	Ţ	ſ	Ţ	Ţ	ſ	ſ	Û	ſ
		Nature conservation interests:	& cultural heritage									
		Heritage assets are r tend to be concentrat around the settlemen Conservation Areas (Potter Heigham, Stal and isolated listed bu churches (e.g. Holy T [Grade I], farmhouse Sutton windmills).	ted within and hts, including Ludham, Catfield, ham and Ingham) hildings including Trinity, Ingham								-	
		Nature conservation extremely limited thr majority of the LCT, very small incursions Broads designations SAC), which extend r	oughout the being restricted to of the adjacent (NNR, SPA and	Ţ	Ţ	Û	Ţ	Ţ	Û	ſ	Ţ	Ţ

T

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		stron	utes do gly influ tivity in tion	lence	-		ion/ opment oplicabl		≍
Sens Crite	itivity ria	Characteristics of t	he LCT		ators (ach de	-			sceptib	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
		the Broads Authority eastern parts of the I high value of these d sensitivity will be sig to all forms of develo impact on these sma whilst typical sensitiv of the LCT will be low	LCT. Given the very esignations, nificantly increased opment that may II, discrete areas, vity in the remainder									
		Recreational value Not an area of notab valueNo National Tra small, isolated areas Land (commons). Th recreational route cro	ils present. Two of Open Access e Weaver's Way osses the LCT.	_	_	_	_	_	_	_	-	-
		Literary / artistic ass Ingham church was t painting by renowned painter John Sell Cot however, this associa significant value to th landscape for the put	the 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. 	High
	 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 tranquility) 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.	
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. 	Moderate
	Sensitivity is likely to be higher:	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 tranquility) 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. 	
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:	Moderate
	 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. Ludham, Ingham, Stalham and Potter Heigham), and/or where turbines may compete with landmark skyline features, such as church towers. 	

Development Type	Reason for judgement	Typical Sensitivity
	 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: 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 	Moderate

Development Type	Reason for judgement	Typical Sensitivity
	 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 tranquility); 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 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 Characteristics²⁰

- 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

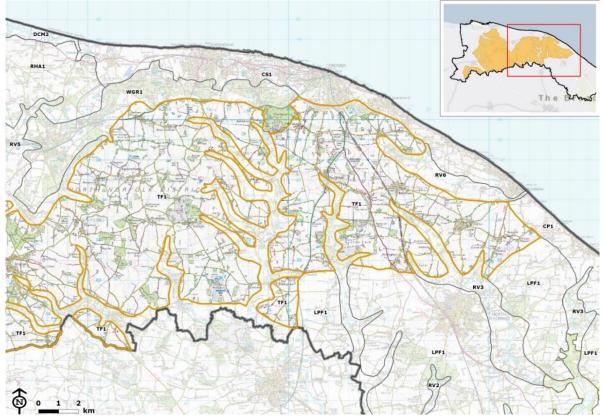
- Strong rural character with a sense of remoteness and tranquillity
- Historic parklands
- Historic field patterns
- Woodland cover, hedgerows and hedgerow trees
- Remnant semi-natural habitats
- Rural historic villages and vernacular buildings
- Rural lanes
- Long range views and prominent landscape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

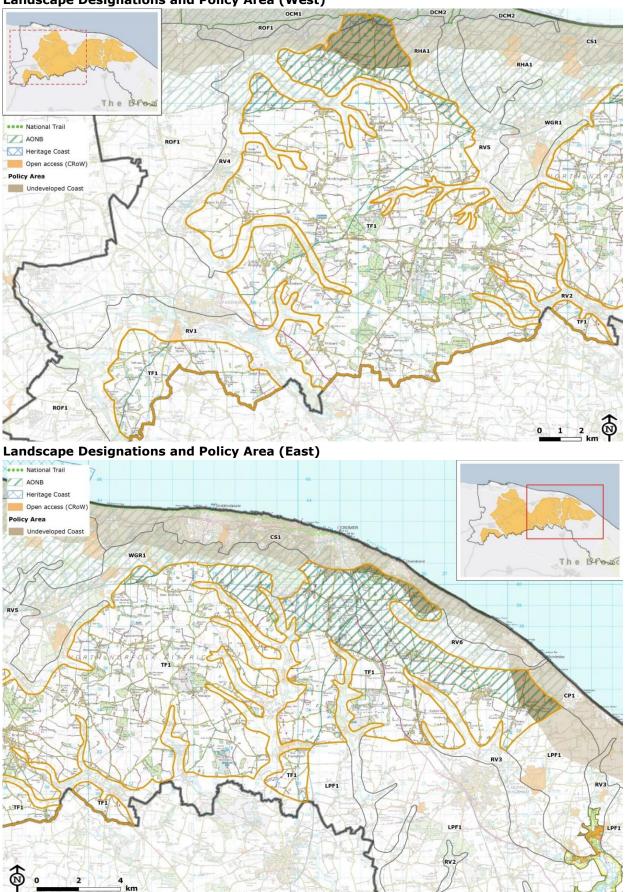
²⁰ Detailed information about landscape character and valued features is set out in the North Norfolk Landscape Character Assessment (2018)

Cotation of the (western part)

Location of TF1 (Western part)

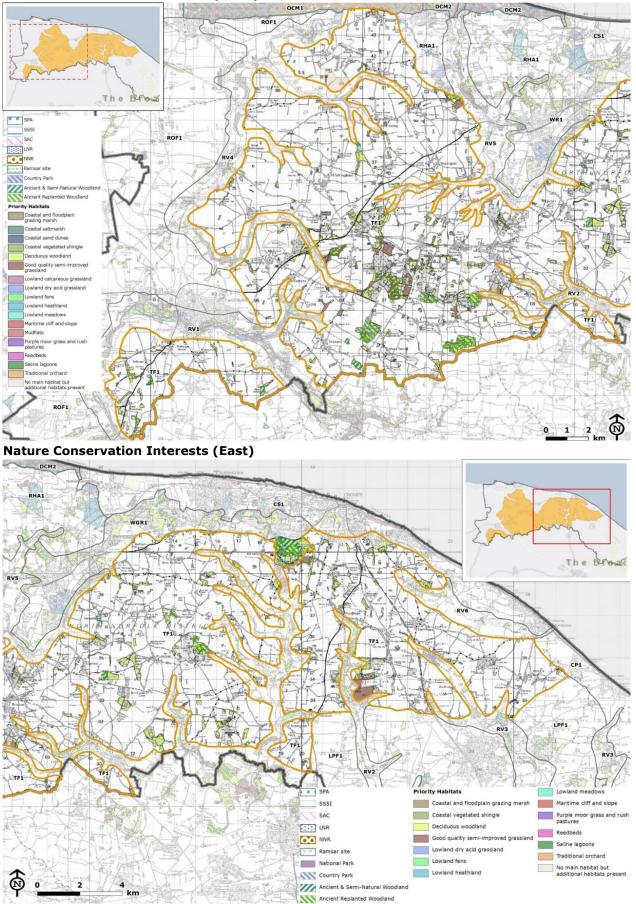
Location of TF1 (Eastern part)

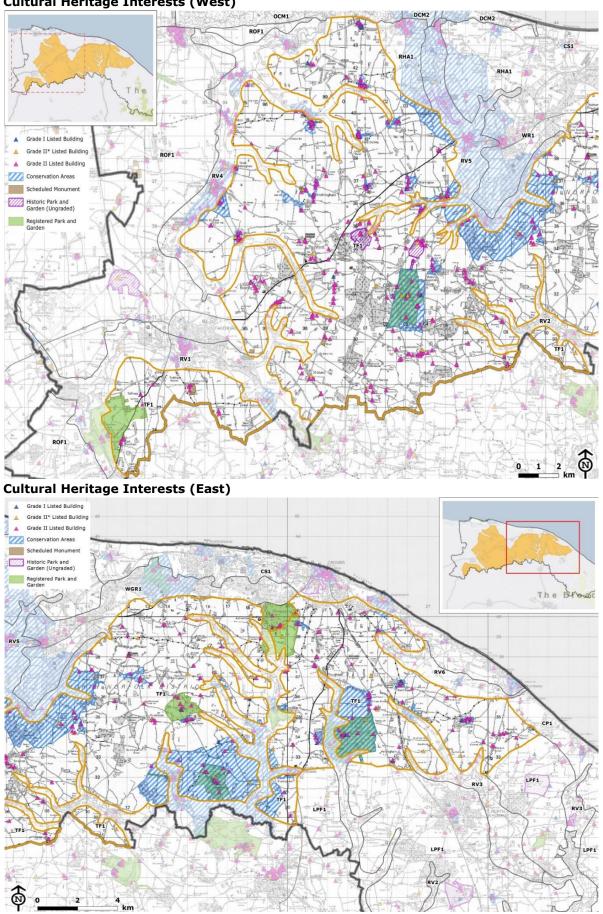




Landscape Designations and Policy Area (West)

Nature Conservation Interests (West)





Cultural Heritage Interests (West)

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.

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		stron			-	Criter devel not a	rion/ opmen pplicab	t type le	*		
Sensi Crite	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	eptibilit	y Criteria												
Topo <u>c</u> & sky	graphy lines	valleys with elevated expansive, open plate undeveloped skylines and woodland, occas historic landmark fea towers. Localised are Fakenham contain m structures on the sky electricity pylons. The adjacent Wooded Gla framing a large part of boundary of the LCT wooded horizon is an component feature of varied landform resu of higher and lower s lying developments s onshore cables and c battery storage scher reservoirs, according slope and landform s presence of historic la a largely undeveloped	eau areas. Generally s formed by farmland ionally punctuated by tures, notably church as south of odern vertical line, in the form of e influence of the notal Ridge Type in of the northern and forming a important f this LCT. The lts in localised areas rensitivity to lower- such as solar farms, able relay stations, mes, AD plants and to the degree of creening, whilst the andmark features on d skyline generally ty to taller structures	ſ	ſ	ſ								
Landc	over	Predominantly arable pasture around settle valleys, and frequent including planted woo with historic estates landscapes and some natural ancient wood dominant arable/ pas	ement edges and woodland, odlands associated and their designed e extensive semi- lands. The				-	Ţ			—	_		

KEY	increas	ites generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development ty	to	strong	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		\times
Sensi [.] Criter	-	Characteristics of t	he LCT			of high velopn	-	wer sus ype	sceptib	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
		in the middle of the s for the majority of de except for onshore ca sensitivity is reduced landcover is able to r temporary laying pha naturalistic landcover woodland and semi-ii will have higher sens development types.	evelopment types able routes where as this type of recover from the ase. Areas of r, such as ancient mproved grassland,									
Sense openn enclos	iess/	A generally open cha managed hedgerow b arable fields. This ope in the elevated platea long uninterrupted vi coast, the Wooded G inland. Linear shelter woodland, hedgerow hedges, often associa boundaries, historic e valleys, provide great the extensive areas of character, the sense relative lack of visual containment increase new development.	boundaries to the enness is increased au areas, affording ews towards the lacial Ridge and belts, areas of trees and higher ated with older field estates and river ter enclosure. In of generally open of openness and screening/	1			1			1		1
Scale (landfo and compo featur landsc patter comple	onent es), cape m &	Fields are generally of size which reduces se scale developments se turbines and reservoi is variation in both si resulting in a more in landscape pattern pa proximity to settleme sensitivity to larger se In addition, the prese villages, narrow rural and historic estates a frequent human-scale increase sensitivity to developments such a energy developments farms and reservoirs	ensitivity to large such as larger wind irs. However, there ze and shape, ntricate, small scale rticularly in ents which increases cale developments. ence of vernacular I lanes, farmsteads also introduces e features which o larger scale is the larger wind s or larger solar					*				

in	tributes generally crease sensitivity to e development type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		≫
Sensitiv Criteria	ty Characteristics of t	he LCT			of high velopn			sceptib	oility a	nd valı	Je
			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
	scale factors balance the larger scale deve wind turbines, solar to reservoirs). The var landscape does not in one way or the other developments such a turbines and cable re storage or AD plants	lopments (larger farms and led scale of the influence sensitivity for the other is smaller scale elay stations, battery						_ ~~			
Sense of tranquilli remotene rurality 8 level of human influence Undevelo d Coast policy are	prevails in large expa farmland, due to the of larger settlements roads, and is reinford Undeveloped Coast p characteristics are lo some areas of greate	itional rurality anses of quiet general absence and limited main ced by the policy area. These cally reduced in er modern human rger farm all this criterion censitivity to all	1	1	1	ſ	ſ	ſ	1	1	1
Time dep / historic continuit	al types within the LCT	include relatively d 20 th century es. However, there of other types, ntury co-axial s, ancient woodland of formal and sociated with vernacular villages, stronger time continuity. These equently across the ly increased fore this criterion sensitivity to all		Î	ſ	Î		1			Î

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ tivity in ion	ience			ion/ opment oplicabl		≫
Sensi Crite	itivity ria	Characteristics of t	he LCT			of high velopn	-	ver sus /pe	sceptib	oility a	nd valı	he
				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 desigr and e to whi	nations xtent ich special ies be	The coastal edge of the designated AONB. A search around Morston is also Heritage Coast. Any of development under costudy have the poten AONB's defined specifiextent, in particular the coastal character, search and the strong and detween land and search presence of these near landscapes increases forms of development these areas.	smaller coastal area to within the defined of the types of onsideration in this tial to affect the al qualities to some he undeveloped nse of remoteness, ess (and dark skies), istinctive visual links a. As a result, the tionally valued sensitivity to all	1	1	1	1	1	1	1	1	ſ
Other indica value	tors of	High scenic quality: The landscape outsid Heritage Coast displa high scenic quality by combination of histor settlements, treed ho field /roadside oaks a which is counterbalar extensive, gently und arable farmland. <u>Representativeness:</u>	ys a moderate to v virtue of the ic vernacular vrizons and remnant and hedgerows, need by the lulating and regular		1	1	1	1	1	1		1
		The majority of the Li typical arable farmlar are a number of nota which increases sensi <u>Rarity:</u> Some rare landscape co-axial enclosures), tend to be highly loca Norton, Bale, Briston could be avoided.	hd, although there ble historic parks itivity in those areas. types present (e.g. although these alised, e.g. Wood									

KEY	increas	ites generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		stron	outes do gly influ tivity in tion	lence	-		ion/ opment pplicabl		్
Sensi 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
		Intactness:										
		Intactness of the land adversely affected by intensive agriculture hedgerow removals, where hedgerows hav maintained. Howeve new/recent hedgerow exist, and the Type c most intact areas of o woodland in Norfolk, relatively intact histo villages. These balar to a neutral influence (although care will be and design).	20 th century and associated coupled with areas ve not been r, areas of v plantings also ontains some of the designated ancient and a number of ric estates and nee each other out o n sensitivity e needed in siting									
		Nature conservation interests: Heritage assets are finumerous Registered Melton Constable, Gu Mannington, Wolterto Conservation Areas, S Monuments and isola such as churches and	requent, and include Parks & Gardens (, inton Barningham, on), a variety of Scheduled ted listed buildings	ſ	ſ	1	ſ	ſ	ſ	1	ſ	1
		Nature conservation scattered across the primarily associated ancient woodland, inv Novers NNR and SSS include the Paston Gi NNR (on the boundar Plain LCT), and the K Southrepps Common Reserves.	designations are LCT, and are with areas of cluding the Swanton I. Smaller sites reat Barn SAC and y with the Coastal napton Cutting and	ſ	ſ	ſ	ſ	ſ	ſ	Î	ſ	1
		These features togetl sensitivity to all deve										
		Recreational value:										
		Small, isolated areas Land (commons) are		-		—	-	—	-	—	—	—

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development typ	ty to strongly influence 📩 development								≫
Sensi Crite	itivity ria	Characteristics of t	he LCT			of high velopn	-	ver sus /pe	sceptib	oility a	nd valı	le
				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 LCT, and several and other PRoWs cross including a very short Norfolk Coast Path will the coast around Mor recreational use tend focussed in the adjace <u>Literary / artistic asso</u> Discrete areas of the landscape have a nur artistic associations, i in works by the renow landscape painter Joh (1782-1842); poetry 'At Thurgarton Churce location (Roughton H Einstein briefly stayed departure from Germ Historic parklands als associations with the 19 th Century landscap Humphry Repton, wh landscape design at C Barningham Hall.	ss the LCT, t section of the here the LCT meets ston, but s to be more ent coastal LCTs. <u>ociations:</u> Tributary Farmland mber of literary and including featuring wned Norfolk on Sell Cotman by George Barker h' (1959); and the eath) where Albert d following his any in 1933. so have strong prominent 18 th & be designer o influenced the									

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

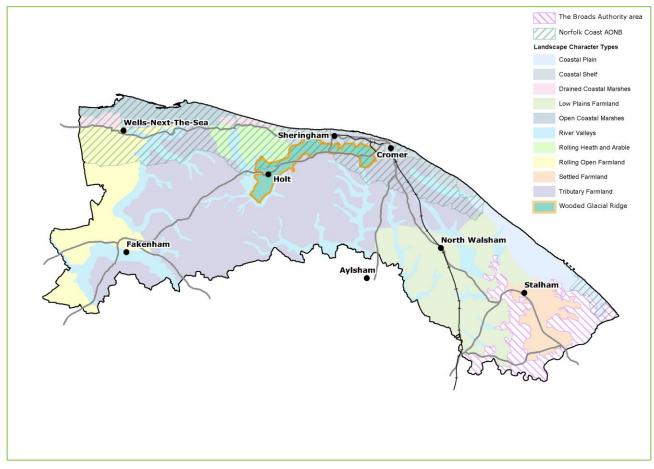
The following table provides an overall sensitivity rating, and justification for that rating, in relation to the relevant development types, based on the LCT sensitivity evaluation table above. It should be emphasised that the overall rating represents the typical sensitivity across the entire LCT, 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 O N B	Reason for judgement	Overall Sensitivity
Large scale wind turbines, (up to 80m hub height)	ουτ	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.	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.	

	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. 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.	Moderate- High
	IN	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	High
Onshore cable routes for offshore wind farms (30m – 100mclearanc e)		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	Moderate
	IN	heritage designations (e.g. Swanton Novers NNR & SSSI, and registered parkland at Melton Constable, Gunton, Barningham and Wolterton), and upper visible slopes. 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 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 them.	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)	OUT	The gently undulating landform, relatively large landscape scale, typically regular 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. 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, 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.	Moderate
	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 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.	High
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 Norton, Bale & Briston, registered parkland such as Gunton, Wolterton, Manningham and Melton Constable, and areas that are particularly visible/ prominent, including those areas visible from the adjacent River Valleys LCT.	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 increase sensitivity. The introduction of reservoirs could adversely affect the undeveloped coastal character, remoteness and tranquility 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. 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.	Moderate- High





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 Characteristics²¹

- 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

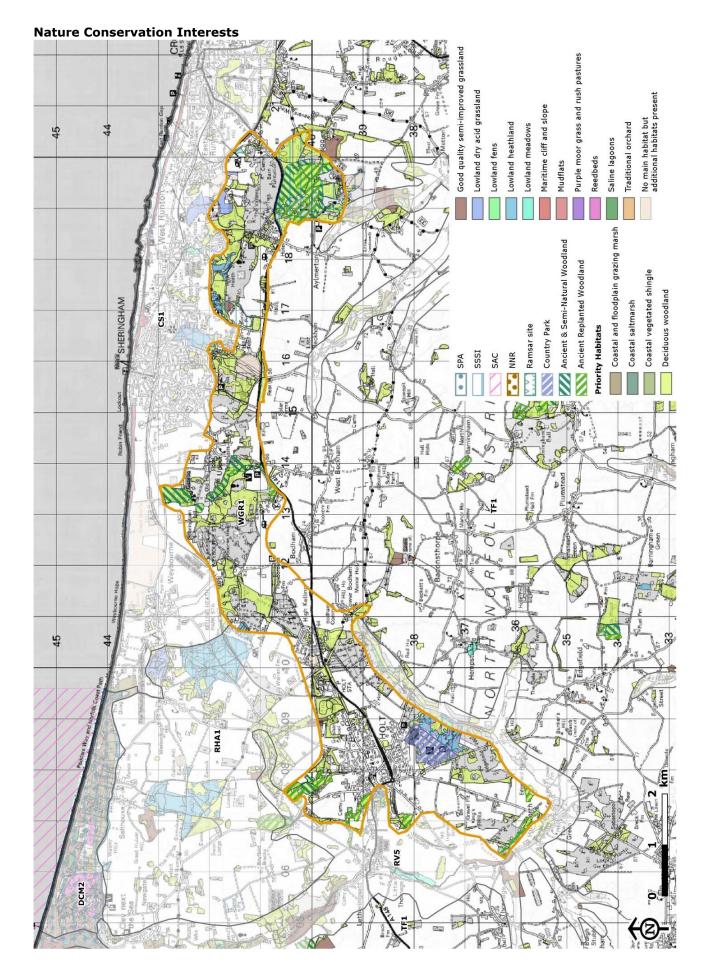
²¹ Detailed information about landscape character and valued features is set out in the North Norfolk Landscape Character Assessment (2018)

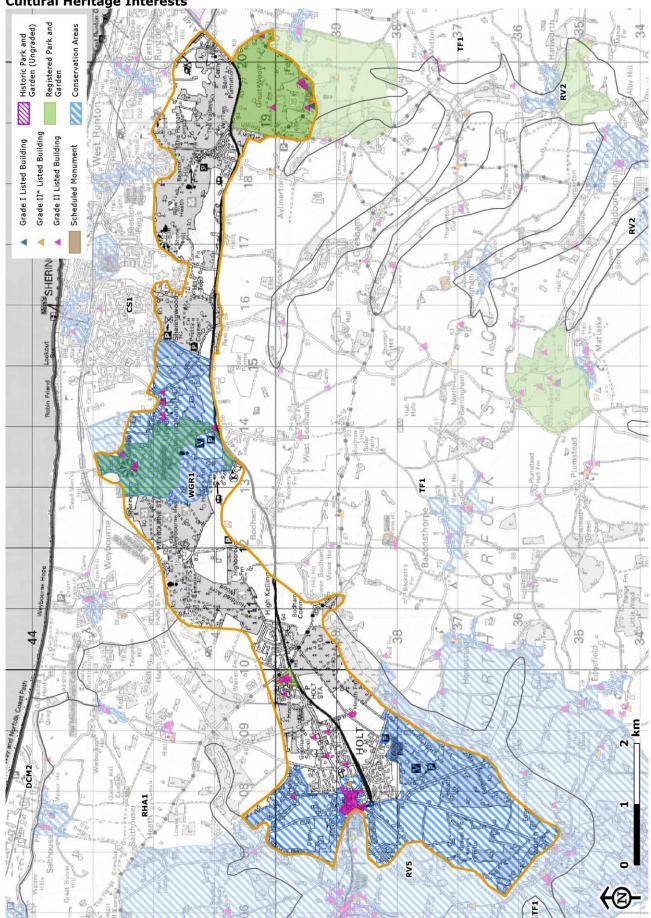
Location of WGR1



Open access (CRoW) Undeveloped Coast TF1 Heritage Coast •••• National Trail AONB **Policy Area** RV2 Mus's SHERINGHAM CS1 out Holo TF1 00 Prayof Notok Caset Path Ê DCM2 **RHA1** 0 RV5 (2)-TEI

Landscape Designations and Policy Area





Cultural Heritage Interests

Landscape Sensitivity Evaluation

Criteria Appraisal

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 se sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		stron	utes do gly influ tivity in tion	lence	-		ion/ opment oplicabl		≫
Sens Crite	itivity ria	Characteristics of t	he LCT			of high velopn			sceptib	oility aı	nd valı	эс
				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 lines	the LCT itself. The ricomponent in some views, particularly from District, as well as shiftrom along the coast. Where present, settle form tends to be low intrude on skylines. modern telecoms magent	m the steep, scarp e itself and some which are all g degrees. Flatter uent and localised, ement of Holt. rms a highly it and largely which due to its more prominent CTs rather than within dge is an important very long range on the south of the norter range views ement and other built -rise and does not One exception is the last sited within the north of West Runton, skyline feature cicularly from along erse landform, bunced slopes, nerally undeveloped is a prominent and ature throughout strict, increases rbines, field-scale t, onshore cable	1	ſ	ſ	ſ	ſ	ſ	ſ	ſ	Ţ

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development ty		strong	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		≫
Sens Crite	itivity ria	Characteristics of t	he LCT			of high velopn			ceptib	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
		industrial type develo landform provides m naturally integrate re associated embankm generally impact on s sensitivity to reservo	ore opportunities to servoirs and ents, which do not skylines, therefore									
Lando	over	The predominant land the LCT is woodland, developed on areas of heath, and includes commercial forestry (principally conifers) deciduous woodland designated ancient w Other landcover inclu- on the inland slopes pasture and informa scarp, coastal slopes of Holt and the outsk lowland heath, scatte as the plotlands hou parks within the wood Kelling, and the mine Britons Lane north o Commercial forestry landcover and previo- tend to have a lower forms of development more naturalistic land semi-natural woodland parkland and pasture variation across the l naturalistic and non- landcover, typical set the development typ consideration balance is no strong influence other. The linear naticable routes means to tree removal likely to LCT (and the time ne replacement planting be particularly promi	which has typically of former lowland a combination of plantations , and semi-natural ; some of which is woodland. udes arable farmland of the ridge, some l parkland on the the built-up areas sirts of Cromer, ered settlement such sing and holiday odland around High eral working site at f Beeston Regis. plantations, arable usly developed land sensitivity to most t compared with dcover such as nd, heathland, a. Given this LCT between naturalistic nsitivity to most of es under es out so that there e one way or the sure of onshore hat the extensive o be required in this reded for to mature) would					Î				

KEY	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		≫
Sensit Criter	-	Characteristics of t	he LCT		ators o ach de	_		ver sus pe	ceptib	ility ar	nd valı	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
		skylines, which more sensitivity to this dev										
Sense openne enclos	ess/	The predominant, exprovide significant encontainment which ty sensitivity to all form under consideration, elements of wind turl of being screened by The more open, export LCT, such as where la occur away from the a higher sensitivity to development as this opportunities to screet absorb such development	Inclosure and visual repically reduces s of development although the taller bines are not capable vegetation. Insed parts of the arger arable fields woodland, will have b all forms of provides fewer en or visually						Ļ	I	Ţ	Ļ
Scale (landfc and compo feature landsca patterr comple	onent es), ape n &	Despite the presence woodlands, the LCT h complex and smaller than many other part there is frequently a features experienced one another, such as heathland, arable, par settlement, which reas scale of the landscap combined with the se provided by the wood Fields tend to be mor than in other LCTs as or fit within surround which compounds the landscape pattern. Overall, these factors to the larger scale de field-scale solar PV d wind turbines and res having a lesser influe developments such a turbines and cable re storage or AD plants.	has a more intimate, -scale character ts of the District, as mosaic of different in combination with woodland, isture and duces the apparent e, particularly when ense of enclosure dland. The irregular in shape they often adjoin ing woodland, e complexity of the s increase sensitivity evelopments such as evelopments, larger servoirs, whilst ince on the other s smaller scale lay stations, battery	ſ				*				

KEY	increas	tes generally e sensitivity to relopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	ence			ion/ opment oplicabl		≫		
Sensi Critei	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		
ruralit level o humai influer Undev	uillity/ eness/ cy & of n	provided by the wood sense of separation a built-up areas and ge influence, and enhan skies. These qualities	Cromer, Sheringham s within the LCT are bed and exhibit a tranquillity. This is eening and enclosure dland, creating a away from these eneral human ucing the dark night s are reinforced by ast policy area, which e LCT, and increase as of development the the tranquillity ed include along the A148, within Holt	1	Î	Î	Î	1			ſ	ſ		
Time of histori		woodland plantations extensive areas of re 19 th and 20 th century	rises 18 th -20 th century s, and there are also elatively modern 18 th , agricultural which typically have a cing sensitivity to all at under present as smaller, ghout the LCT and lland, commons, parkland, which all	Ţ			Ţ		Ţ		Ţ	Ţ		
Value	e Criteri	a												
Preser landso desigr and ex to whi	cape nations xtent	As noted above, mos Ridge type lies withir AONB, except for the Any of the types of d	the Norfolk Coast area around Holt.		1	1	1	1	1			1		

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		≫
Sensi Crite	itivity ria	Characteristics of t	he LCT			-	er/lov nent ty	ver sus vpe	ceptib	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
their s qualiti could affect	be	consideration in this potential to affect the special qualities to so particular the undeve character, sense of re tranquillity and wildn and the strong and d between land and se presence of this natic landscape increases so forms of developmen affecting these areas location/proximity.	e AONB's defined ome extent, in eloped coastal emoteness, ess (and dark skies), istinctive visual links a. As a result, the onally valued sensitivity to all t within or potentially									
Other indica value	tors of	High scenic quality: The minority of the L within the AONB (i.e. typically of moderate contains some of the farmland in the area, commercial forestry p workings and pig farm Holt is an attractive of there are some sceni and open space such	south of Holt) is scenic quality as it more regular arable together with plantations, mineral ming. Georgian town, and c areas of woodland									_
		Park, which incorpora heath and fen habita <u>Representativeness:</u> The landscape is a no the region) of an ext on sandy/gravelly gla	ts. otable example (for ensive wooded ridge	Î		1	Î	Î	Î	Î	Î	Î
		Rarity: Discrete areas of rela woodland and lowlan amongst the more co farmland, forestry an	d heathland exist mmon modern	1	1	1	1	1	1	1	1	ſ
		Intactness: The landscape displa as it includes extensi ancient woodland) th continuously forested	ve areas (including at have been									-

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development typ	to	strong	utes do gly influ ivity in ion	ence		develo	pment		≫
Sens Crite	itivity ria	Characteristics of t	he LCT		ators o ach dev	-	-		ceptib	Criterion/ development type hot applicable eptibility and value & sub-stations & sub-stations Storage schemes storage schemes and the stations and		
				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
		heathland which the plantations were typi although some impor Holt Lowes) has surv fragmented. Other an adversely affected by intensive agriculture hedgerow removals. <u>Nature conservation interests:</u> The LCT includes sma Regis Common and H contain lowland heat and are designated a There is also ancient vicinity of Sheringhan and Holt. Priority hat areas of deciduous w which are extensive, Sheringham Park and lowland heath, dry an lowland meadow and are typically small an Cultural heritage ass across the LCT, reflect wooded, undeveloped groupings of assets of Sheringham Hall and are Grade II* Registo	intactness of lowland more recent forestry cally sited on, tant heathland (e.g. ived,albeit reas have been / 20 th century and associated <u>& cultural heritage</u> all parts of Beeston folt Lowes, which h and fen habitats is SSSIs and SPAs. woodland in the m Park, Felbrigg Hall bitats include many roodland, some of such as those around d Felbrigg; and cid grassland, lowland fen, which ad fragmented. ets are infrequent cting its generally d character. The main occur around Felbrigg Hall, which ered Park and bod nestled within the lling, and the									
		Sheringham and the <u>Recreational value:</u> The LCT has above a value, due to the cor areas of extensive Of (typically Forestry Co District's only Countr fairly extensive netw	verage recreational nbination of many pen Access Land ommission land), the y Park (Holt), and a	Î	1	Î	Î	Î	Î	Î	Î	Î

KEY	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity the development typ	to strongly influence					Criterion/ development type not applicable			్
Sens Crite	itivity ria	Characteristics of t	ne LCT			of high velopn	-	ver sus /pe	sceptib	oility a	nd valı	Je
					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
		throughout the area. heritage steam railwa visitor attraction. Literary / artistic asso	ay is also a popular									
		W H Auden was educ School, Holt. Howeve does not contribute to natural beauty of the	ated at Gresham's r, this connection o perceptions of the		-	_	I	-			-	-

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.

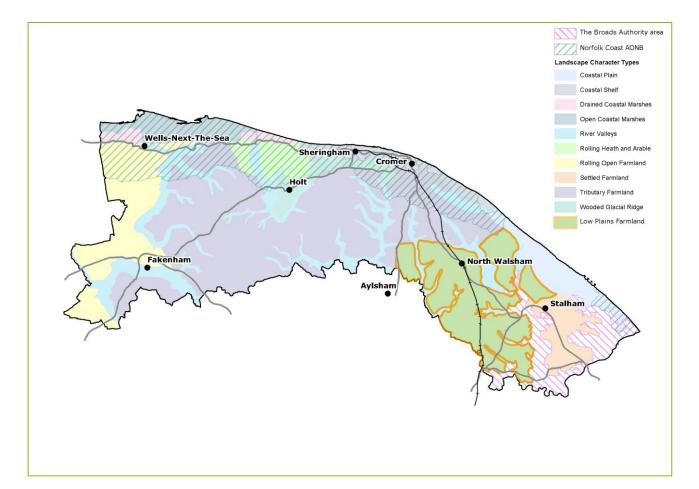
Development Type	A O N B	Reason for judgement	Overall Sensitivity
Large scale wind turbines, (up to 80m hub height)	ουτ	Parts of the LCT outside the AONB (e.g. south and east of Holt) have flatter, more regular topography and extensive plantation woodland cover which could indicate a lower sensitivity 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 .	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)	OUT	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 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.	High

Small scale wind turbines, (up to 30m hub height)	OUT	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. The areas around Sheringham Hall and Park and Felbrigg Hall will also have	High
Field-scale solar PV development (above 10 hectares site area)	ουτ	Particular cultural heritage sensitivities associated with them. 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.	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, 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. The areas around Sheringham Hall and Park and Felbrigg Hall will also have particular cultural heritage sensitivities associated with them.	High

Onshore cable routes for offshore wind farms (30m- 80m clearance)	ΟυΤ	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
	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 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
Commercial battery storage schemes, Cable relay stations and sub-stations (for offshore wind farms) and Anaerobic digestion plants (typical size	OUT	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
(typical size range 2.5 – 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 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	High

		the LCT that fall within the AONB.	
Reservoirs (typical size range 2 – 5ha)	оит	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

Appendix 2 – Landscape Sensitivity Assessment Profiles for Airfield Sites





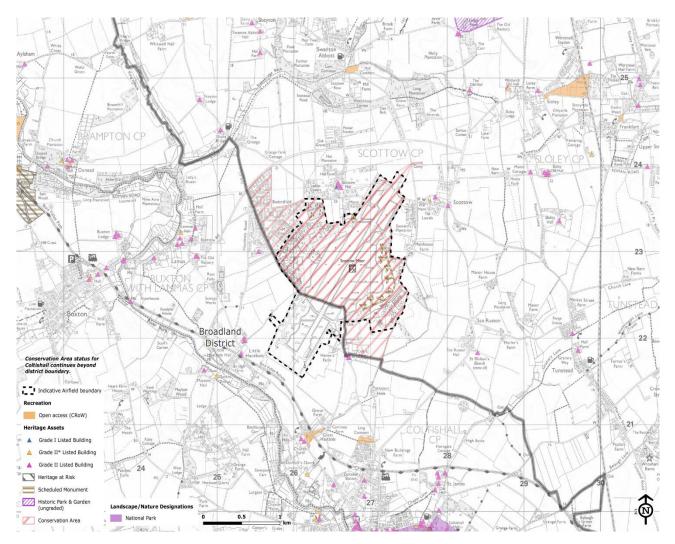
Baseline Landscape

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 Airfield²²

- 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'.

²² 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	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development types of the		strong	utes do gly influ ivity in ion	lence	-		ion/ opment oplicabl		≍
Sensi Crite	itivity ria	Characteristics of t	he LCT		ators o ach de	_		ver su: /pe	sceptib	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
Susc	usceptibility Criteria											
Topo <u>c</u> & sky	graphy lines	hugely prominent, bu built development (in tower and water tow associated with the a tower at Scottow to a airfield is a local land Whilst the flat, unifor reduces sensitivity to presence of church to surrounding landscap sensitivity. Overall no sensitivity to wind tu landform reduces sen solar PV developmen routes, whilst increas	he north the land to the south it of the site skyline are ut characterised by neluding the control er) or solar panels airfield. A church the north of the lmark. Im landform generally o wind turbines, the owers in the be increases eutral influence on rbines. The flat nsitivity to field-scale its and onshore cable sing sensitivity to andform balances out cloped skylines in				Ţ	Ţ				Î
Lando	over	A combination of run development, solar p and remnant airfield (roads/tracks and ap sensitivity to all deve	anels, grassland hard standings rons) reduces	Î	Ţ	ſ	ſ	ſ	ſ	Ţ	ſ	Î

KEY	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		≫
Sensi Criter		Characteristics of t	he LCT		ators o ach de			ver sus vpe	ceptib	ility 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
openn	certain directions b shelter belts surrou which could help sc		ing is provided from hedgerows and ding the airfield een lower level s in a neutral effect ower lying ncreases sensitivity ch cannot be			1						
Scale (landfo and compo feature landso patter comple	onent es), ape n &	The airfield landscape which generally redu development types.	-	Ţ	Ţ	Ţ	ſ	*	Ţ	Ţ	Ţ	Ţ
Sense tranqu remote ruralit level c humar influer	uillity/ eness/ y & of n	The airfield is develop particularly remote o result, indicating a re relation to this criteri	r tranquil as a educed sensitivity in	Ţ	Ļ	ſ	Ţ	Ţ	Ţ		Ţ	ſ
Time o histori contin		The site is identified as a military airfield which will generally h susceptibility to all for development, due to depth and historical of	(20 th Century), have a lower orms of the limited time	Ļ	Ţ	ſ	ſ	ſ	Ļ	Ţ	Ţ	ſ
Value	Criteria	a										
Preser landso design and ex to whi their s qualiti could affecte	ape nations ktent ch special es be	The airfield is not wit proximity to any land with the nearest such the Norfolk Broads w 2km away. Landscap no influence on sensi development types e turbines which could from the Broads.	lscape designations, n designation being hich is just under be designations have tivity to most xcept the larger wind	1	1	ļ	Ţ	Ţ	Ţ	Ţ	Ţ	ļ

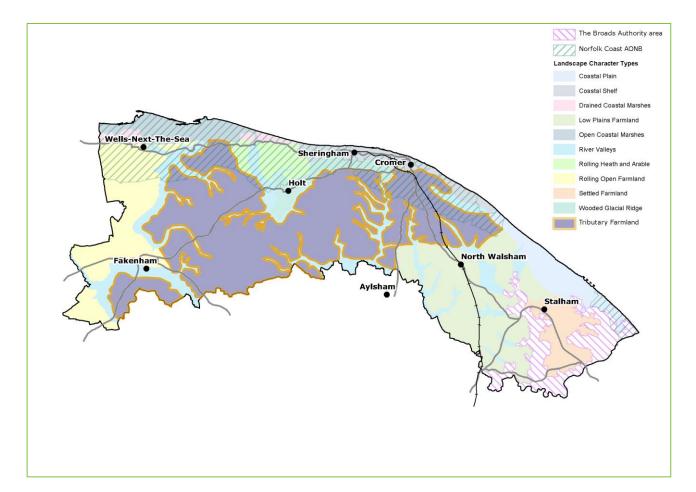
KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development ty		strong	utes do gly influ ivity in ion	ence			ion/ opment oplicabl		×
Sensi Crite	itivity ria	Characteristics of t	he LCT			of high velopn			ceptib	ility ar	nd valu	le
				Large scale 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	<u>Scenic quality:</u> The landscape within any notable scenic qu		Ţ		Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ
		Representativeness: The majority of the a farm, although the a important example o airfield from an histo which increases sens	irfield is a fairly f a World War 2 ric point of view	Î	1	1	1	1	ſ	1	1	1
		Rarity: The majority of the a farm and World War rare. However, Coltis Battle of Britain stati have remained in cor operational fighter st is rare and significan history perspective.	irfield is now a solar 2 airfields are not shall is the only on in the UK to ntinuous use as an sation until 2006, so	ſ	1	1	1	1	1	1	1	1
		Intactness: The landscape is not as it has been regula through time, both a construction of the W former farmland, and a solar farm and bus reduces sensitivity to	rly modified s part of the /W2 airfield from d subsequent use as iness park. This	Ļ	Ļ	Ţ	Ţ	Ļ	Ţ	Ţ	Ţ	Ţ
		Nature conservation interests: There is considerable interest – the whole Area and the site also Scheduled Monumen sensitivity to all deve	e cultural heritage site is a Conservation o includes a t, increasing	Î	1	1	1	1	ſ	1	Î	Î
		There are no nature of designations within the landscape sensitivity criterion (although ith the airfield's grasslar habitat for local skylated series of the series of th	he site, reducing in relation to this is recognised that nd is important	ſ	Ţ	ſ	Ţ	Ļ	Ţ	ſ	Ţ	ſ

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development typ	to strongly influence				Criterion/ development typ not applicable			≫	
Sens Crite	itivity ria	Characteristics of t	he LCT		ators o ach de	-			sceptib	ility a	nd valı	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 value: No Public Rights of W within the airfield and access, reducing sens this criterion. Literary / artistic asso	there is no public sitivity in relation to	Ţ	Ţ	Ţ	Ţ	Î	Ţ	Ţ	Ţ	Ţ
		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





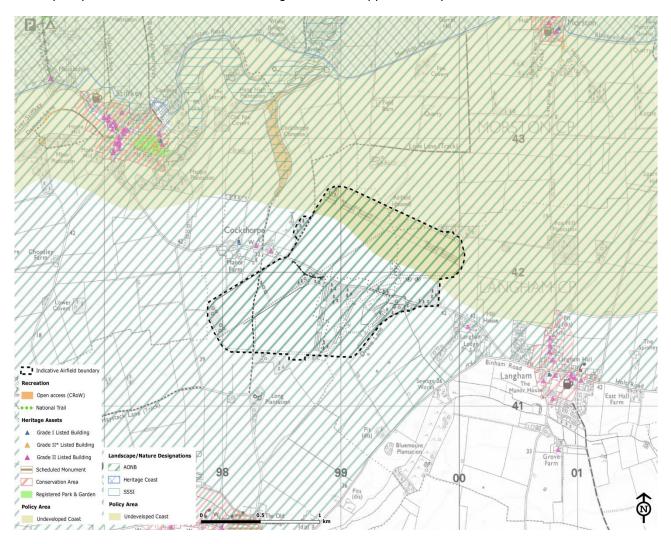
Baseline Landscape

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 Airfield²³

- 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.

²³ 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 e sensitivity to relopment type	Attributes generally decrease sensitivity the development typ		stron	utes do gly influ tivity in tion	lence	-		ion/ opment pplicabl		*
Sens Crite	itivity ria	Characteristics of t	the LCT		ators (ach de	_			sceptit	oility a	nd valı	ər
				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					- -	- -	- -			
Topo <u>c</u> & sky	graphy lines	landform, with a pro- featuring the Cocktho on the north-west ed vertical metal feed si sheds also appear or number of views, alti less prominent than from the west, churc Cockthorpe and Blak landmark features or The largely flat, unifor sensitivity to all form except reservoirs, an mast has introduced feature on the skylin	orpe telecoms mast lge of the airfield. The los of the poultry in the skyline in a hough they are much the mast. In views in towers at eney form historic in the skyline. Form landform lowers as of development ad the the telecoms a modern, vertical e. However, this is fact that the telecoms ominent modern e, with occasional vers the only other aning that the nantly undeveloped. to the taller not be strongly	ſ			Ţ	Ţ				ſ
Lando	cover	(roads/tracks and ap and modern built for arable landcover acro strongly influence se	blocks and shelter irfield hard standings prons) with original m. The predominant pss the site does not	-	-	-	-	Ţ	_		_	_

KEY	increas	tes generally e sensitivity to relopment type	to De	strong	utes do gly influ ivity in ion	ience		Criter develo not ap	≍			
Sensi Criter	-	Characteristics of t	he LCT		ators o ach de	-			ceptib	ility aı	nd valı	e
				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 indicates a re this type of land cov recover from the ter phase). The discrete areas, which are a p have a higher sensit development in thes The areas of the site and existing built for a lower landcover se of development, dep interplay of other cri			er is able to easily porary cable laying deciduous woodland iority habitat, would vity to all forms of e localised areas. with hardstanding m are likely to have hsitivity to all forms ending on the									
Sense openn enclos	ness/	A generally open cha enclosure and screen certain directions by belts, woodland block within and surroundir results in generally ir to developments inco structures, such as w having less influence developments.	ing is provided from the linear shelter as and hedgerows og the airfield. This acreased sensitivity orporating taller ind turbines, whilst	1	1	1						-
Scale (landf and compo featur landso patter compl	onent es), cape m &	The airfield landscape large scale, broadly in surrounding tributary simple, geometric ara inside the perimeter divided by the former runways and hardsta incorporates some sh large, regular scale o reduces susceptibility types, as these could accommodated witho overall landscape pat features.	n line with the farmland, with able fields arranged road. The fields are r arrangement of ndings, which now elter belts. The f the area generally to all development be more easily ut harm to the	₽	₽	₽	Ţ	*	Ţ	Ţ	Ţ	Ţ
Sense tranqu remot ruralit level o	uillity/ :eness/ :y &	The airfield is tranqui remoteness which dra generally undevelope surrounding landscap reflected in its design	aws on the d character of the e, which is	1	1	1	1	1	1	1	1	1

KEY	increas	e sensitivity to elopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	ience		Criteri develo not ap	≫		
Sensi Criter		Characteristics of t	he LCT		ators o ach dev	-	-		ceptib	ility aı	nd valı	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
human influence Undeveloped Coast policy area the airfield being a m the landscape, the bu does not significantly sense of rurality, tran remoteness, and the the site is lightly traff These qualities gener sensitivity to all form under consideration.			olicy area. Despite an-made feature in uilt form present detract from the nquillity and minor road through ficked. rally increase		+	. +				~)		-
Time (histori contin		Notwithstanding its h former WW2 airfield, contain any historic la identified by the Norf categorised as compr agricultural enclosure have a lower suscept development, due to depth and historic qu	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	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ
Value	e Criteria	a										
landso desigr and ex to whi	nations xtent ich special ies be	The airfield is wholly within the Norfolk Coast AONB. 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 indica value	ndicators of The high scenic quality is		nation (see above),	Î	ſ	Î	1	Î	Î	Î	Î	1

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	ience		devel	Criterion/ development type not applicable		
Sens Crite	itivity ria	Characteristics of t	he LCT		ators o ach de	-		ver sus vpe	sceptib	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
		Representativeness:										
		The majority of the a typical arable farmlar particularly importan War 2 airfield.		ſ	ſ	ſ	Ţ	Ţ	Ţ	ſ	Ţ	ſ
		<u>Rarity:</u>										
		This is not a rare typ	e of landscape.	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	I
		Intactness:		~	•	•	•	~	~	•		
		The landscape is not as it has been regula following construction airfield from former f subsequent reversion recent introduction o the poultry sheds and	rly modified n of the WW2 armland, with n to arable and more f built form such as	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Î
		Nature conservation interests:	<u>& cultural heritage</u>									
		The Langham Dome Monument, however not apply more widel of the airfield. Never increases sensitivity.	this designation does y to any other parts	Î	Î	1	Î	Î	Î	1	Î	1
		There are no nature of designations within the habitats are restricted deciduous woodland avoided.	he site, and priority d to two areas of			_	-	-	_	-	-	-
		Recreational value:										
		Three Public Rights o within or along the b airfield. The Langhan notable visitor attract	oundary of the m Dome is also a	1	Î	Î	Î	Î	Î	Î	Î	1
		Literary / artistic ass	ociations:									
		There are no known f literary/artistic assoc airfield.		-	-	-	-			-	-	-

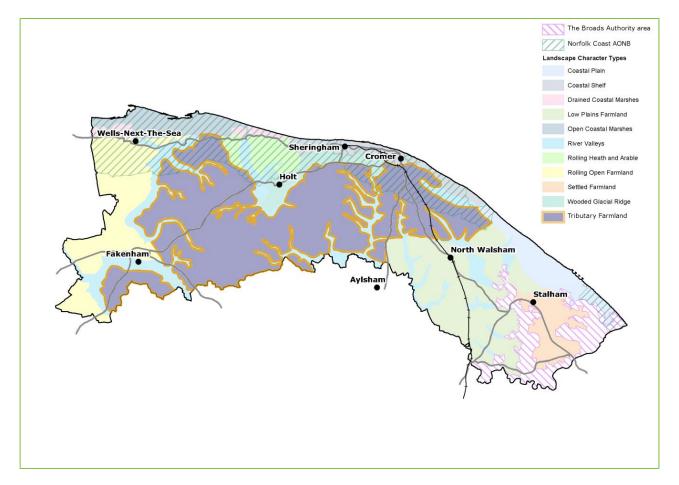
Overall sensitivity to different development types

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)	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, 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.	Moderate- High

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 .	Moderate
Onshore cable routes (for offshore wind farms)	the special interest and appreciation of the Langham Dome Scheduled Monument. 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 sensitivity to this type of development is considered to be moderate .	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. 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.	Moderate- High

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. 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 would be more prominent and therefore sensitivity would be locally higher. Overall, typical sensitivity to reservoirs across the airfield is considered to be moderate .	Moderate
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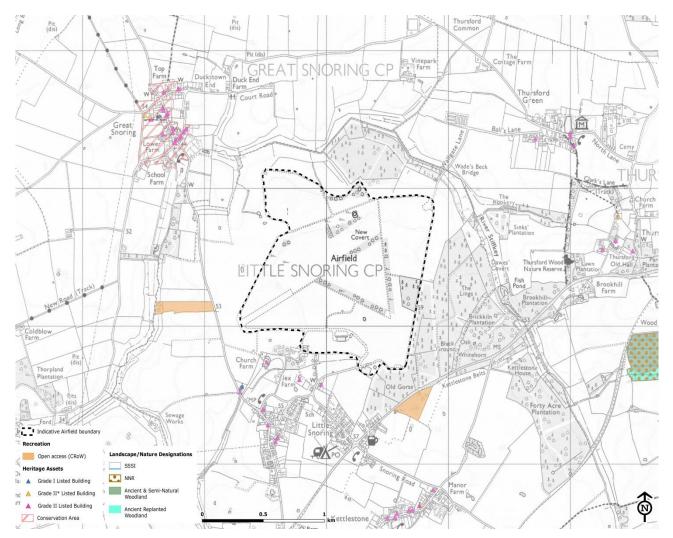
Baseline Landscape

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 Airfield²⁴

- 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.

²⁴ 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	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	lence			ion/ opment oplicabl		≫
Sensi Crite	-	Characteristics of t	the LCT		ators (ach de	-	-	ver sus /pe	sceptib	oility ar	nd valı	Je
				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		or more distant wood Some historic landma visible in certain view tower of the Grade I Great Snoring in view the airfield from the Grade I detached tow Church, Little Snoring 400m to the south-w A cluster of large sca King's Lynn and Wes also visible, but not p range skyline feature 14km away) in views airfield from the east	of the site. The site drops down River Stiffkey. erally undeveloped urrounding woodland, dland on the horizon. ark features are vs, for example, the Church of St. Mary, vs north-west across south-east, and the ver of St. Andrews g, which is sited vest of the airfield. alle wind turbines in t Norfolk District is prominent, as a long- e (approximately s west across the charter of the airfield of the predominantly s, which increases rbines. duces sensitivity to evelopments and s, whilst increasing irs. The flat ut the generally is in respect of	1			₽	₽				1

KEY	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity the development ty		strong	utes do gly influ ivity in ion	lence		Criter develo not ap		≫	
Sensi Crite	itivity ria	Characteristics of t	he LCT		ators o ach de	-		ver sus /pe	sceptib	ility aı	nd valu	эс
				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
	developments.											
Landcover A com farmla belts, (roads and m arable strong directi as ara from t The di which higher develo		(roads/tracks and ap and modern built for arable landcover acro strongly influence set direction, except for as arable land is able from the temporary of The discrete deciduor which are a priority h higher sensitivity to a development in these The areas of the site and existing built for a lower landcover set	blocks and shelter irfield hard standings rons) with original m. The predominant oss the site does not nsitivity in either onshore cable routes, to recover easily cable laying phase. us woodland areas, nabitat, would have a all forms of e localised areas. with hardstandings m are likely to have					Ţ				
Sense of openness/ enclosure A generally open char enclosure certain directions by the belts and woodland w surrounding the airfie western part more op The degree of enclosu lying developments (of turbines) could vary so depending on siting w relation to these scree This results in genera sensitivity to develop taller structures, such whilst having less infl lower-lying developments		ing is provided from the linear shelter within and eld; with the ben than the east. ure to the lower excluding wind significantly, within the airfield in tening elements. ally increased toments incorporating h as wind turbines, luence on the	1	1	1							
Scale (landf and comp featur landso	form onent res),	The airfield landscape large scale, broadly i surrounding tributary simple, geometric ara inside the perimeter divided by the forme	n line with the r farmland, with able fields arranged road. The fields are	ſ	Ţ	Ţ	ſ	×	ſ	ſ	ſ	ſ

KEY	increas	es generally e sensitivity to relopment type	Attributes do not strongly influence sensitivity in either direction					Criter develo not ap	*			
Sensi Crite	itivity ria	Characteristics of t	he LCT		ators o ach de	-	-		ceptib	ility ar	nd valı	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
patter comp												
	uillity/ ceness/ ty & of n	The airfield is relative reflects the strongly surroundings, with th along the boundary b trafficked. There is a remoteness in parts, created by the dense the site to the east, a of there being little h the nearest settleme is not prominent from airfield.	rural character of its e minor public road being very lightly ilso a feeling of due to the isolation woodland enclosing and the perception uman influence, as nt of Little Snoring									
		airfield. This is balanced out by the fact that this is an operational airfield, with some modern built form, movement and noise relating to intermittent take offs and landings, and activity associated with the commercial uses of the hangars. Therefore, these attributes are not considered to strongly influence sensitivity in either direction, in relation to all the forms of development under consideration.										
Time histor contir		The site is identified as a military airfield which will generally h susceptibility to all fo development, due to depth and historical o	(20 th Century), have a lower rms of the limited time	ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ

КЕҮ	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	lence			ion/ opment oplicabl		≫
Sensi Crite	itivity ria	Characteristics of t	he LCT			_	er/lov nent ty		sceptib	oility aı	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
Value	e Criteri	a										
landso design and e to wh	nations xtent ich special ies be	The airfield is not wit proximity to any land with the nearest such the Norfolk Coast AO to the north of the si separation, the lower (all except the taller unlikely to affect the qualities of the AONE undeveloped coastal remoteness, tranquill (and dark skies), and distinctive visual link sea. Therefore, sensi lying developments is In the case of large a turbines, these may for visible from within the therefore have the po- these special qualitie	Iscape designations, a designation being NB, which is 5.5km te. Given this -lying developments wind turbines) are defined special a, which include the character, sense of ity and wildness the strong and s between land and tivity to the lower- s reduced. and medium scale form skyline features e AONB, and otential to affect			Ţ	Ļ	Ţ	Ţ	Ţ	Ţ	Ĵ
Other indica value	tors of	High scenic quality: The landscape within moderate scenic qual combination of flat la large scale regular ar modern built form, m presence of historic of some views. <u>Representativeness:</u> The majority of the a typical arable farmlan particularly importan War 2 airfield. <u>Rarity:</u> This is not a rare typ	ity due to the ndform, relatively able landcover, iixed woodland and hurch towers in irfield is relatively nd and is not a t example of a World		↑ ↓				1		1	1

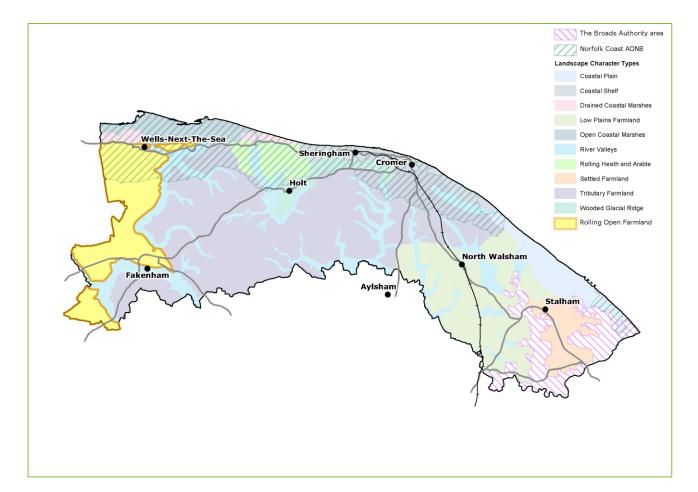
KEY	increas	tes generally e sensitivity to relopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		≫
Sensi Crite	itivity ria	Characteristics of t	he LCT			of high velopn		ver sus vpe	sceptib	oility aı	nd valı	ıe
				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
		Intactness: The landscape is not as it has been regula following construction airfield from former f subsequent reversion recent introduction o additional hangars.	rly modified n of the WW2 armland, with n to arable and more	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ
		Nature conservation interests: There are no cultural designations within t developments may b combination with the church towers at Litt Snoring, and from th at Great Snoring, wh to affect the special i appreciation of these on factors such as sit	heritage he site. The taller e viewed in Grade I listed le Snoring and Great e Conservation Area ich has the potential nterest and assets, depending	ſ	ſ							_
		There are no nature designations within the habitats are restricted deciduous woodland.	he site, and priority d to discrete areas of	-		-	-		-		-	-
		Recreational value: No Public Rights of W within the airfield, ar is limited to civil avia Open Access Land (for are situated adjacent	d recreational value tion. Two areas of prestry plantations)	_		-	-		_	_	-	_
		Literary / artistic ass There are no known literary/artistic assoc airfield.	famous									_

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. 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.	Moderate
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	Low- moderate

	the temporary construction activities associated with this form of development. Overall, typical sensitivity to onshore cable routes in considered to be 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.	Moderate
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





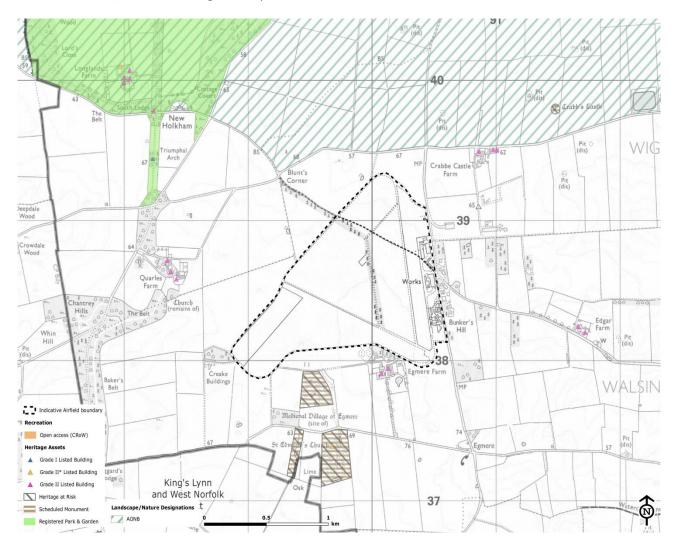
Baseline Landscape

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 Airfield²⁵

- 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.

²⁵ 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.

increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		strong sensit	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		*
Sensitivity Criteria Characteristics of the LCT Indicators of higher/lower susceptibility and value for each development type Image: solution of the low of the											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
Susceptibilit	y Criteria										
	some of the highest a generally undevelo by farmland, conifere small woodland block some built form on the area or immediately anaerobic digestion t buildings, and low-ris There are no taller vo present on or surrou are prominent on the	and in the LCT, with ped skyline formed ous shelter belts and ks, together with he edge of the airfield beyond, such as anks, storage se electricity poles. ertical structures nding the site which e skyline. Im landform generally o wind turbines, this predominantly s of the wider LCT, itivity to wind as turbines sited on would be extensively ounding area, DNB. luces sensitivity to evelopments and , whilst increasing irs. The flat of higher screening res out the generally s in respect of al type may incorporate	1	Î		₽					Î

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development ty	to	strong	utes do gly influ ivity in ion	ience	Π		ion/ opment pplicabl		≫			
Sensi Crite	itivity ria	Characteristics of t	he LCT		ators o ach de	-	-	sceptib	ceptibility and value						
				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			
Landc	cover	A combination of ara existing solar PV dev coniferous shelter be standings (roads/trac existing built form. T arable landcover acro strongly influence set direction, except for routes, due to the re- restoring such landco laying of cables. The smaller areas of hardstandings and ex- may have a lower lar to all forms of develo on the interplay of ot detailed siting / scale	elopment, linear Its, airfield hard cks and aprons) and The predominant oss the site does not nsitivity in either onshore cable lative ease of over following the the site with kisting built form adcover sensitivity opment, depending ther criteria, such as					Ţ							
Sense openr enclos	ness/	A generally open cha enclosure and screen certain directions by belts, woodland block within and surroundin sense of openness ge sensitivity to develop taller structures, such whilst having a lessed lower-lying developm	ing is provided from the linear shelter and hedgerows ong the airfield. The enerally increases ments incorporating h as wind turbines, r influence on the	1	1	1	-		-	-	-	-			
Scale (landf and comp featur landso patter comp	form onent res), cape rn &	The airfield landscape large scale, broadly i surrounding ROF farr geometric arable field the perimeter road. T divided by the former runways and hardsta incorporates some sh large, regular scale o reduces susceptibility types, as these could accommodated witho overall landscape pat features.	n line with the nland, with simple, ds arranged inside The fields are r arrangement of ndings, which now helter belts. The f the area generally r to all development be more easily but harm to the	Ţ			Ţ	*	Ţ	Ţ	Ţ	Ţ			

KEY	increas	tes generally e sensitivity to velopment type	Attributes generally decrease sensitivity the development ty		strong	gly influ tivity in	utes do not ly influence wity in either on			≫		
Sens Crite	itivity ria	Characteristics of t	he LCT		ators o ach de	_			sceptik	oility a	nd valı	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
	uillity/ teness/ ty & of n	The airfield and surror relatively tranquil, wi remoteness which dr generally undevelope wider ROF landscape counterbalanced by t man-made feature in the significant concer form and related reg within and to the imr airfield (known as Eg Park), including the of farm, AD plant and la stores. This degree of and activity reduces sense of tranquillity a typical of the surrour	th a sense of aws on the ed character of the ; however, this is the fact that this is a the landscape, and ntration of built ular vehicle activity mediate east of the mere Business operational solar arge scale grain of human influence the relatively high and rurality which is									
Time histor contir		Notwithstanding its h former WW2 airfield, contain any historic l identified by the Norf categorised as comp agricultural enclosure have a lower suscept development, due to depth and historic qu	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	ſ	ſ	ſ	Î	ſ	ſ	Ţ	Ţ	ſ
Value	e Criteria	a										
lands desig and e to wh	nations xtent ich special ies be	The airfield does not landscape designatio noted above the Norf boundary lies approx north of the site. The Heritage Coast is situ north of the site. The proximity to the lesser extent the Her increases the overall landscape to forms o are likely to have far that could affect the	ns; however, as folk Coast AONB imately 150m to the e North Norfolk lated 4km to the AONB, and to a itage Coast, sensitivity of the f development which reaching impacts	1	1	ſ						-

KEY	increas	tes generally e sensitivity to relopment type	Attributes generally decrease sensitivity the development typ	to	strong	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		≫		
Sensi Crite	itivity ria	Characteristics of t	he LCT		ators o ach de	_			sceptib	ceptibility 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		
			character, sense of lity and wildness (and strong and distinctive land and sea. r structures such as would be prominent nis local high point rominence cale), would likely be B, and could AONB's special ason the presence of ases sensitivity to site. screening mitigation, opment which er elements, such as lay stations and AD versely affect these is for the same ey are likely to be of											
Other indica value	tors of	High scenic quality: The landscape within relatively low to mod due to the combination modern arable landco form and coniferous and <u>Representativeness:</u> The majority of airfie	erate scenic quality on of flat landform, over, modern built shelter belts. Id is relatively typical	ţ	Ţ	Ţ	Ļ	Ļ	Ţ	Ţ	Ţ	Ţ		
		arable farmland and significant example o airfield. <u>Rarity:</u> This is not a rare exa	f a World War 2	1			1					•		
		type.		Ŷ	1	1	1	1	Ŷ	1	Ŷ	Ŷ		

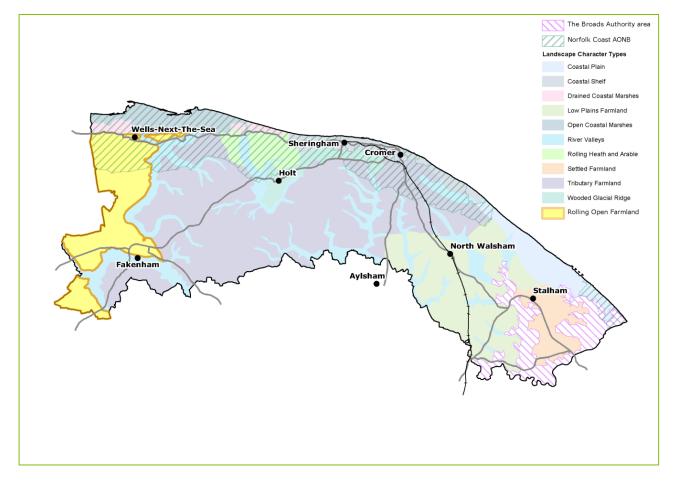
KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	ience			ion/ opment oplicabl		≍
Sensi Crite	itivity ria	Characteristics of t	he LCT			of high velopn	-		sceptib	oility a	nd valı	e
				Large 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 as it has been regula following construction airfield from former f subsequent reversior recent introduction o electricity lines/poles shelter belts.	rly modified n of the WW2 armland, with n to arable and more f a solar farm,	Ţ	ſ	₽	ſ		Ţ	Ţ	Ţ	Û
		Scheduled Monumen ruins at Egmere, liste Crabbe Castle Farm a the Grade I parkland situated in relatively	heritage or nature tions within the site, nabitats present. The t and listed church ed buildings at and Quarles Farm and	L	Î		Ţ	Ţ	Ĵ	Ţ	Ţ	Ĵ
		<u>Recreational value:</u> Relatively little recrea Public Right of Way (the northern part of t	footpath) crosses		-	-	—		-	-	-	-
		Literary / artistic ass There are no known literary/artistic assoc airfield	famous	-	-	_	-	_	—	—	-	—

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

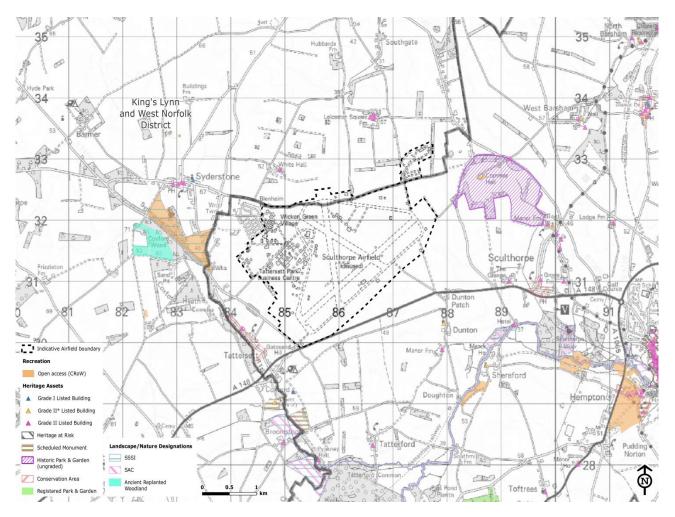
Introduction to the Airfield

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 Airfield²⁶

- 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.

²⁶ 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	tes generally e sensitivity to relopment type	Attributes generally decrease sensitivity the development typ		strong					ion/ opment oplicabl		≫
Sensi Crite	itivity ria	Characteristics of t	he LCT		ators o ach de	-	-	ver sus /pe	sceptib	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
Susce	eptibility	y Criteria										
Topog & sky	graphy lines	the shallow valley wh Park is located, gene sensitivity to most ty development; howev turbines would impace nearby valley location make it harder to int earthworks, but visib surrounding landscap plateau character of Skylines are undevel degree of sensitivity, particularly distinctiv distant or more local arable fields, and the prominent skyline he churches) in the vicin The upper parts of a scale (101m to tip) w Lynn and West Norfo between Syderstone around 3km from the	of the site, other than here the Business rally reduces pes of renewable er the larger wind ct on views from ns. Flatter landforms egrate reservoir ility from the be is limited by the the site. oped and so have a but are not e, being formed of woodlands and ere are no particularly ritage features (e.g. hity. cluster of 5 medium vind turbines in King's lk District, located and Bagthorpe e nearest edge of the some locations in the			Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	
Lando	over	tip) turbines just ove However these are n dominant to reduce s Although the airfield scarcity value within arable landscape, an value for ground-nes	ot sufficiently sensitivity. grassland has some this generally d has ecological	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ

KEY	increas	e sensitivity to relopment type	Attributes generally decrease sensitivity the development ty							Criterion/ development type not applicable			
Sensi Criter	-	Characteristics of t	he LCT			of high velopn			sceptib	ility ar	nd valı	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	
		not, given its context developed site, const landscape element. T deciduous woodland sensitivity, but most characterised by the extensive hard surfac elements, and is ther less sensitive than m cover to all developm	itute a sensitive The small areas of have higher of the site is presence of cing and built refore considered ore naturalistic land										
Sense openn enclos	ess/	The site's open chara sensitivity to wind tu widely visible against lower level developm contained within the	rbines, which will be the skyline, but ent is likely to be	1	1	1	Ļ	Ţ	Ļ	Ţ	Ļ	Ļ	
Scale (landfo and compo feature landsc patter comple	onent es), ape n &	The airfield is a large landscape, lacking in features, and its exter and built developmer Park and adjacent vil the geometric, arable surrounds it. This re to all development ty development would r sensitive existing pat	ternal boundary ensive runway areas at (the Business lage) contrast with a landscape that duces susceptibility rpes, as new not detract from any	ţ	Ļ	Ţ	Ţ	*	Ţ		Ţ	Ţ	
Sense tranqu remot ruralit level c humar influer	uillity/ eness/ y & of n	The site lies within a rural location, and th continued role as trai constitute an intensiv retention of airfield s structures to support a level of human influ landscape, and the p Business Park and W add to this. This offse sensitivity in terms o tranquillity for the low development types th a significant impact to area. However the sig means that existing of only a limited impact	e airfield's ining site does not ve use, but the urfaces and this use represents uence in the roximity of the icken Green Village ets any increased f rurality and wer-level nat would not have beyond the site te's plateau location development has	Î	ſ	1							

KEY	increas	e sensitivity to elopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	ence		Criteri develo not ap	*		
Sensi Critei	itivity ria	Characteristics of t	he LCT		ators o ach dev	-	-		ceptib	ility 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
		the surrounding rural turbine development, greater impact on the increases sensitivity.	, which would have									
Time histor contin		The site is identified as a military airfield (which will generally h susceptibility to all fo development, due to depth and historical o	(20 th Century), have a lower rms of the limited time	Ţ	Ţ	Ţ	ſ	Ţ	Ţ	Ţ	Ţ	Ţ
Value	e Criteria	a										
landso design and e to whi their s qualiti could affect	nations xtent ich special ies be ed	The airfield is not wit proximity to any land with the nearest such the Norfolk Coast AO 7km to the north of t separation, the lower (all except the taller unlikely to affect the qualities of the AONE undeveloped coastal remoteness, tranquill dark skies), and the visual links between Therefore, sensitivity developments is redu In the case of large a turbines, these may f features visible from where vegetation and but their potential to special qualities is lik limited.	Iscape designations, a designation being NB, which is over he site. Given this r-lying developments wind turbines) are defined special a, which include the character, sense of ity and wildness (and strong and distinctive land and sea. to the lower-lying uced. and medium scale form distant skyline within the AONB d elevation permit, a significantly affect				ţ	Ţ	Ţ	Ţ	Ţ	Ĵ
Other indica value	tors of	High scenic quality: The landscape within relatively low scenic of combination of flat la distinctive natural fea of built form.	quality due to the ndform, absence of	Ţ	Ţ	Ţ	ſ	Ţ	ſ	Ţ	Ţ	ſ

Sculthorpe

KEY	increas	Attributes generally se sensitivity to evelopment type Attributes generally decrease sensitivity the development type			strong	utes do gly influ ivity in ion	ence			ion/ opment oplicabl		≫
Sensi Crite	sitivity Characteristics of the LCT Indicators of higher/lower susceptibility and val eria for each development type									nd valı	le	
				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
		Representativeness:			₽	_ () ‡						
		An absence of design fact that the remainin Sculthorpe are not pa heritage terms as ele War 2 / Cold War airf decommissioning, inc domestic buildings an Business Park, have h impact on its former of	ng features at inticularly valued in ments of a World ield. Changes since luding sale of the ind creation of the mad a significant	Ţ	Ţ	Ţ	ſ	Ţ	Ţ	Ţ	Ţ	Û
		<u>Rarity:</u>										Π
		This is not a rare type Intactness:	e of landscape.			*	••	✤	*	*	\mathbf{V}	♥
		Although the airfield i value it does not repr landscape.		ſ	ſ	ſ	Ţ	ſ	ſ	ſ	ſ	ſ
		Nature conservation 8 interests:	& cultural heritage									
		There are no cultural designations within th is an unregistered his surrounded a Listed h edge of which is c.0.5 boundary.	ne site. Cranmer Hall toric park nouse, the nearest	Ļ	Ţ	Ţ	Ļ	Ţ	Ţ	Ļ	Ţ	ſ
		There are no nature of designations within the habitats are restricted deciduous woodland of the second sec	ne site, and priority d to a small area of	Ţ	ſ	ſ	Ţ	ſ	Ţ	ſ	Ţ	ſ
		Recreational value:										
		No Public Rights of W within the airfield and access, reducing sens this criterion.	I there is no public	Ţ	Ţ	Ţ	ſ	Ţ	ſ	ſ	ſ	ſ
		<u>Literary / artistic asso</u>										
		No known famous lite associations.	erary/artistic				-					

Sculthorpe

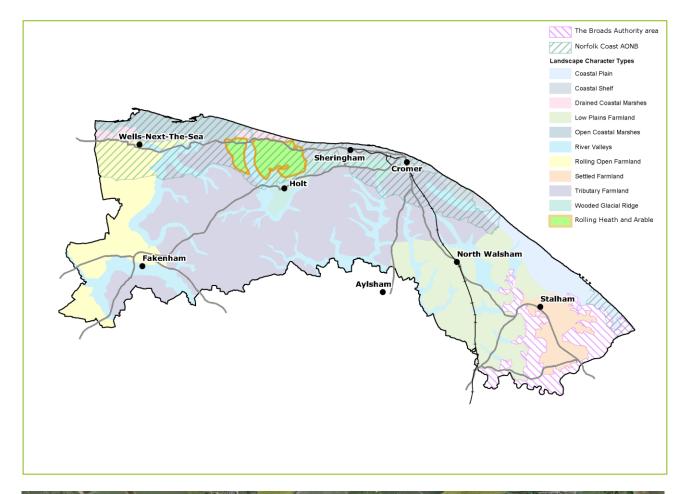
Overall sensitivity to different development types

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 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 .	Low
Commercial battery storage schemes , Cable relay stations and sub-stations (for offshore wind farms) and Anaerobic digestion	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

Sculthorpe

plants (typical size range 2.5 – 8 ha)		
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





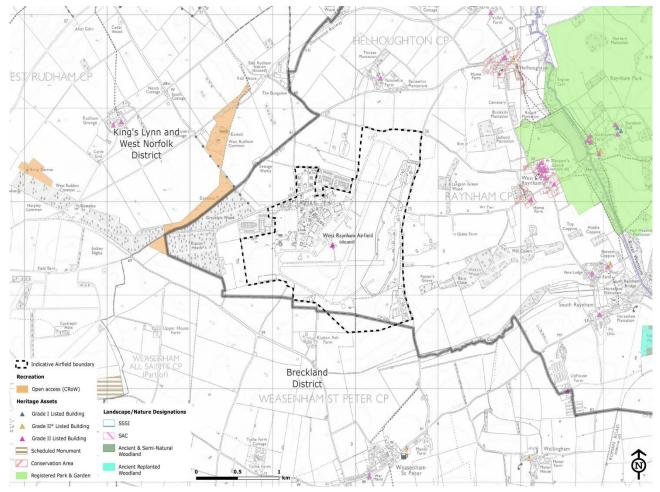
Baseline Landscape

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 Airfield²⁷

- 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.

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.

²⁷ 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 West Raynham Airfield against the sensitivity criteria which have been predetermined for the development types.

KEY	increas	tes generally e sensitivity to relopment type	Attributes generally decrease sensitivity the development typ		strong	utes do gly influ ivity in ion	lence	-		ion/ opment oplicabl		*
Sens Crite	itivity ria										nd valı	эс
				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 'lines	have a degree of ser particularly distinctiv distant or more local arable fields, and the prominent skyline he churches) in the vicin The upper parts of tw King's Lynn and Wes located to the north Syderstone between the nearest edge of the above background the sufficiently dominant to wind development	yenerally reduces ypes of renewable y undeveloped and so asitivity, but are not re, being formed of woodlands and ere are no particularly eritage features (e.g. nity. wo wind farms in t Norfolk District, and west of 7km and 10km from the site, are visible rees, but are not to reduce sensitivity to n the site. are of topography and ral impact on wind sensitivity to all ypes, which would nst a backdrop of				Ţ	Ţ	Ţ	Ţ	Ţ	Ţ
Lando	cover	Built development, s grassland typify mos reducing sensitivity t types.	t of the site,	ſ	ſ	Ţ	Ţ	ſ	ſ	Ţ	ſ	ſ

KEY	increas	Attributes generally se sensitivity to velopment type			Attributes do not strongly influence sensitivity in either direction					Criterion/ development type not applicable				
Sensi Crite	itivity ria	Characteristics of t	he LCT		ators o ach de	-			sceptibility and value					
				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/	The site's open chara sensitivity to wind tu widely visible against lower level developm from some locations typically be screened within the wider surr	rbines, which will be the skyline, but ent, whilst visible near the site, will by tree cover	1								1		
Scale (landf and compo featur landso patter compl	form onent res), cape rn &	The airfield is a large landscape, lacking sig boundary features, a farm forming a large reduces susceptibility types, as new develo detract from any sen pattern.	gnificant internal nd within the solar mass within it. This to all development pment would not	Ļ	Ţ	Ţ	Ţ	*	Ţ	Ţ	Ţ	Ţ		
	uillity/ teness/ ty & of n	The site lies within a rural location, but the Business Park and he local intrusion, offset sensitivity in terms o tranquillity for the low development types th a significant impact b area. However the ex- in the local and wided that existing develop limited impact on the surrounding rural lan turbine development greater impact on the increases sensitivity.	e solar farm, busing areas create ting any increased f rurality and wer-level hat would not have beyond the site stent of tree cover r landscape mean ment has only a e character of the dscape, so wind , which would have	Î	1	1								
Time histor contir		The site is identified as a military airfield which will generally h susceptibility to all fo development, due to depth and historical o	(20 th Century), have a lower rms of the limited time	Ţ	Ţ	Ţ	ſ	Ţ	Ţ	Ţ	Ţ	Ĵ		

KEY	increas	tes generally se sensitivity to velopment type Attributes generally decrease sensitivity the development type		to	Attributes do not strongly influence sensitivity in either direction					Criterion/ development type not applicable			
	Sensitivity Characteristics of the LCT Indicators of higher/lower susceptibility and valu Criteria 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	
Value	e Criteria	a											
landso desigi and e to wh	nations xtent ich special ies be	The airfield is not wit proximity to any land with the nearest such the Norfolk Coast AO 14km to the north of separation, any visib will be minimal and s lower-lying developm	lscape designations, n designation being NB, which is over the site. Given this ility of tall turbines		Ţ	Ţ	Ţ	₽	Ţ	₽	Ţ	Ţ	
Other indica value	itors of	High scenic quality: The landscape within relatively low scenic combination of flat la distinctive natural fea of built form.	quality due to the ndform, absence of	Ţ	Ļ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	
		Representativeness: The site layout and n that form part of it al being of heritage inte example of an 'expar from the 1930's. The formal designation to extent to which the or runway area has bee solar farm developme considerations in the sensitivity of this par	re recognised as erest as a good asion period' airfield absence of any reflect this, and the character of the n changed by the ent are assessment of			-	-				-	-	
		Rarity: The majority of the a farm and World War rare.	irfield is now a solar	Ţ	Ļ	ſ	Ţ	ſ	Ţ	Ţ	Ţ	Ţ	
		Intactness: The landscape is not as it has been regula through time, both a construction of the ai farmland, and subsec farm and business pa sensitivity to further	rly modified s part of the rfield from former quent use as a solar ark. This reduces	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ĵ	Ĵ	

KEY	increas	tes generally se sensitivity to velopment type	Attributes generally decrease sensitivity the development typ		strong	utes do Jly influ ivity in ion	ience			ion/ opment oplicabl		≫	
Sensi Crite	itivity ria	Characteristics of t	he LCT			tors of higher/lower susceptibility and value ch 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	
		Nature conservation interests: There is one listed but the former control to already affected by t taller developments w impact, given the im- elevation to its histor Raynham Park is a su Park and Garden surf the nearest edge of w 1km from the airfield tree cover containing preclude any significa- setting from lower-le sensitivity to larger t higher as they would above the tree line in westwards from the line of the parkland (bour	uilding on the site, wer. Its setting is he solar farm, but would have a greater portance of its ric role. To the east, ubstantial Registered rounded a listed Hall, which is a little over I boundary. Mature the site is likely to ant impact on its vel development, but urbines would be form a backdrop a sweeping views higher, eastern side		1	1							
		There are no nature designations within t Recreational value:		ſ	ſ	ſ	Ţ	Ţ	ſ	Ţ	ſ	ſ	
		No Public Rights of W within the airfield and access, reducing sen this criterion.	d there is no public	Ţ	Ţ	ſ	Ţ	ſ	ſ	Ţ	Ţ	ſ	
		Literary / artistic ass 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)	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 .	Low
Commercial battery storage schemes , Cable relay stations and sub-stations (for offshore	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	Low

wind farms) and Anaerobic digestion plants (typical size range 2.5 - 8 ha)	surround Rolling Open Farmlands Landscape Type. Typical sensitivity across the airfield to industrial-type renewable energy development is considered to be 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

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;
 - softening and rounding at the top and toe of the embankment will help in assimilation into the landscape;
 - avoiding long straight lines along reservoir edges for example by breaking them up with undulations and vegetation;
 - \circ $\;$ seeking to tie the shape of the reservoir into the landform; and
 - 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.