### North Norfolk Landscape Character Assessment

15<sup>th</sup> October 2018

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# **This presentation - aims**

- Provide a brief introduction to landscape character assessment and why it is useful
- Our brief/need for the work
- How we approached the task in North Norfolk
- The classification and what the report contains
- How to use the information in the report

# What is landscape character assessment?

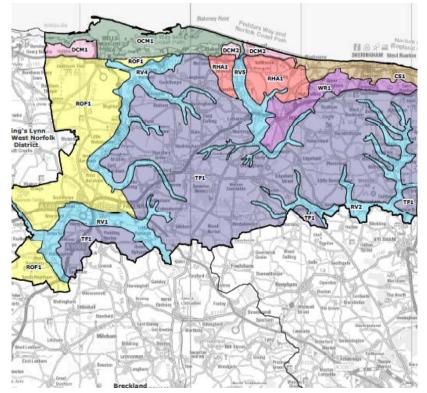




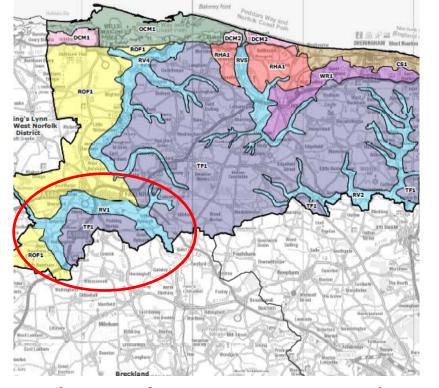
Landscape Character Assessment is the accepted process for understanding landscape.

Landscape Character is: the distinct, recognisable and consistent pattern of elements in the landscape that makes one landscape different from another, rather than better or worse

### What is landscape character assessment?



Landscape Character Types = types of landscape that may occur in different areas, but wherever they occur they share broadly similar characteristics e.g. River Valleys



Landscape Character Areas = single unique areas which are discrete geographical areas of a particular type e.g. Wensum River Valley

# Why undertake landscape character assessment?





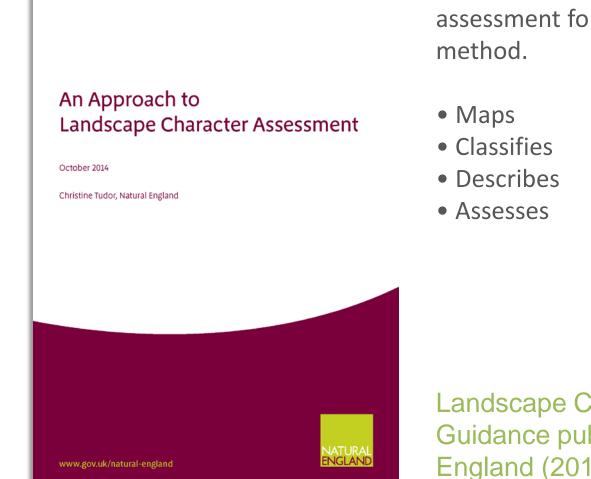
### LCA is an established technique to:

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- Analyse and describe the character and qualities of an area;
- Consider issues affecting that area; and;
- Develop recommendations for its future management.

LCA provides a spatial framework within which decisions can be made.





The process of landscape character assessment follows an accepted method.

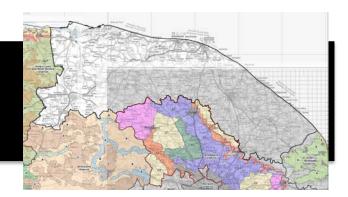
Landscape Character Assessment Guidance published by Natural England (2014)



### National level: National Character Areas

**Regional level:** East of England Landscape Typology

Local level: Neighbouring Authorities











- to inform work on policy development as part of emerging Development Plans;
- to guide development and land management that is sympathetic to local character and special qualities;
- to promote an understanding of how landscapes are changing and how they can be strengthened.

### Our brief/need for the work

### NORTH NORFOLK Local Development Framework



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# Landscape Character Assessment

Supplementary Planning Document

June 2009

# **Approach in North Norfolk**



### Key tasks were:

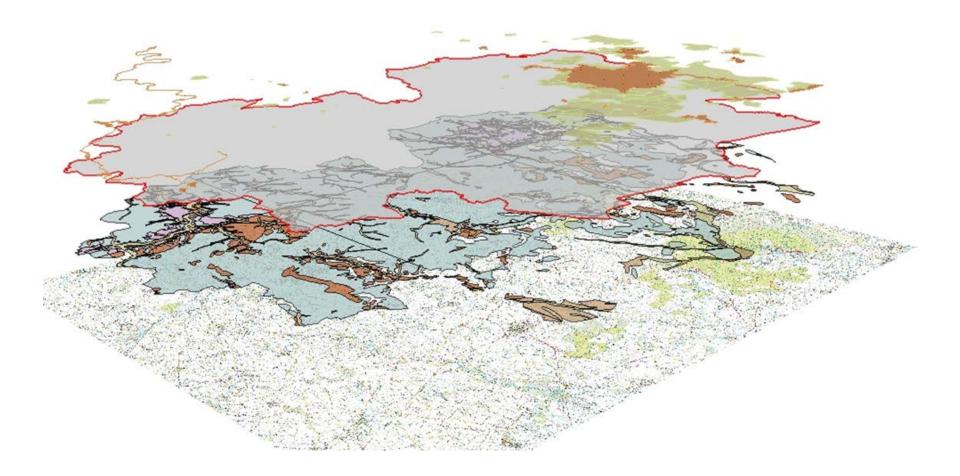
- 'Sense check' of the existing classification;
- Describe landscape character;
- Identify key sensitivities and valued attributes;

- Identify forces for change;
- Provide a landscape strategy and guidance.

### Approach in North Norfolk

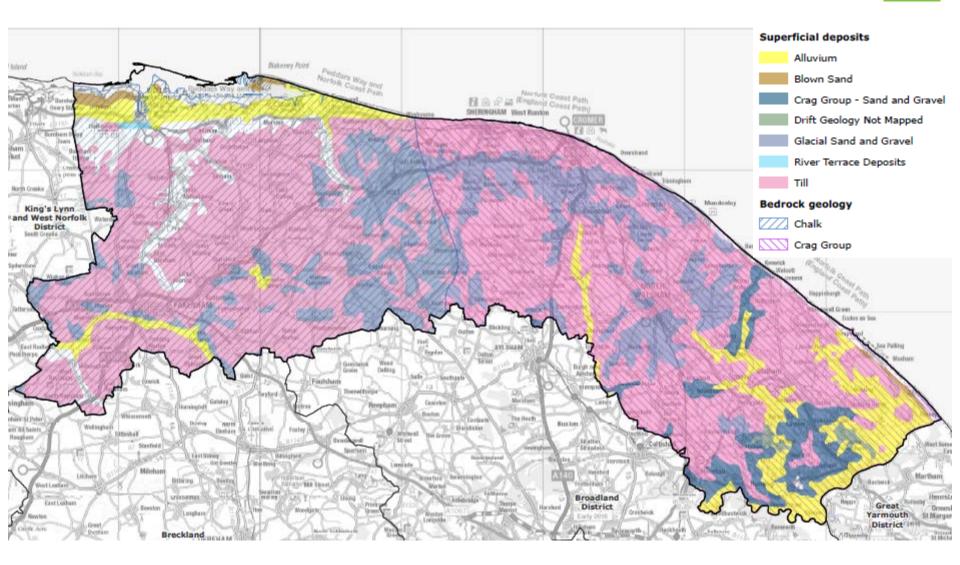


### Use of GIS

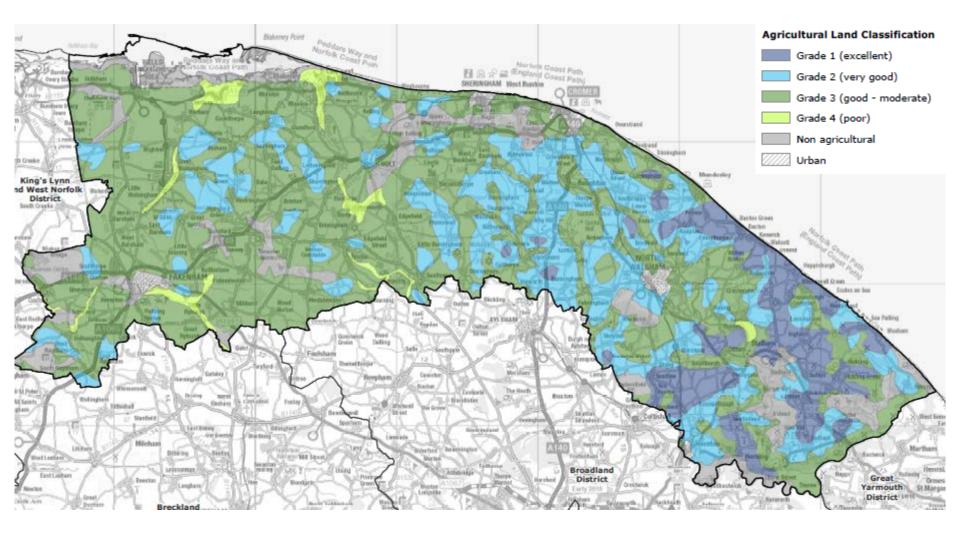




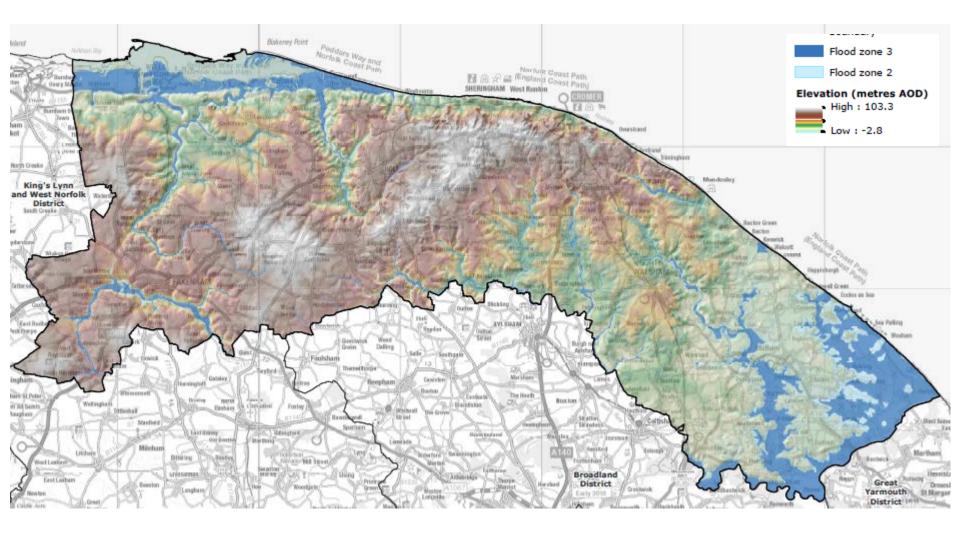
### **Desk study - geology**



# Desk study – agricultural land classification

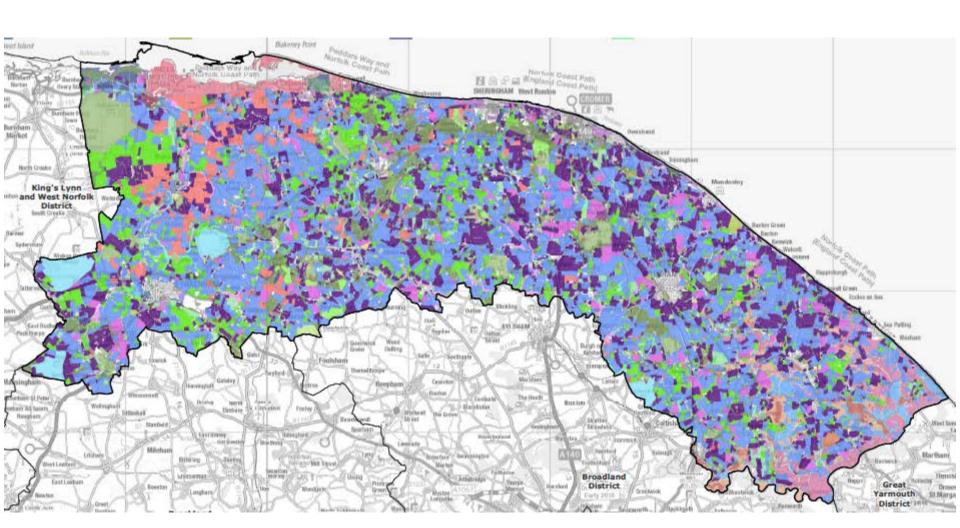


# Desk study – topography & drainage

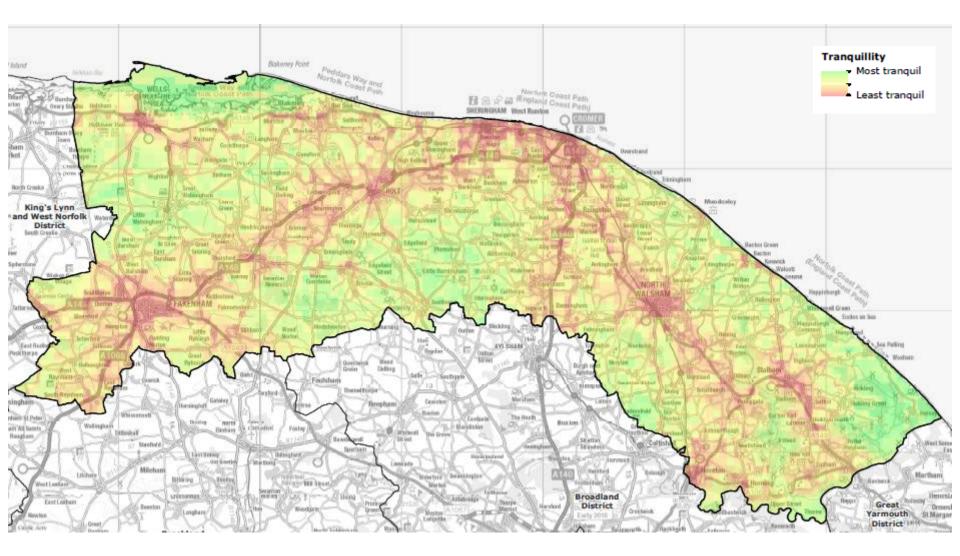




### Desk study – historic landscape

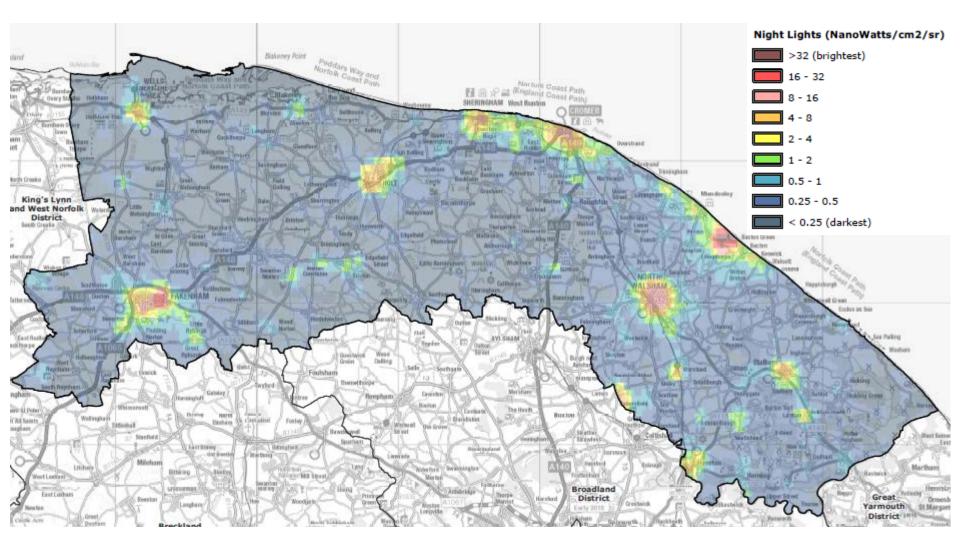


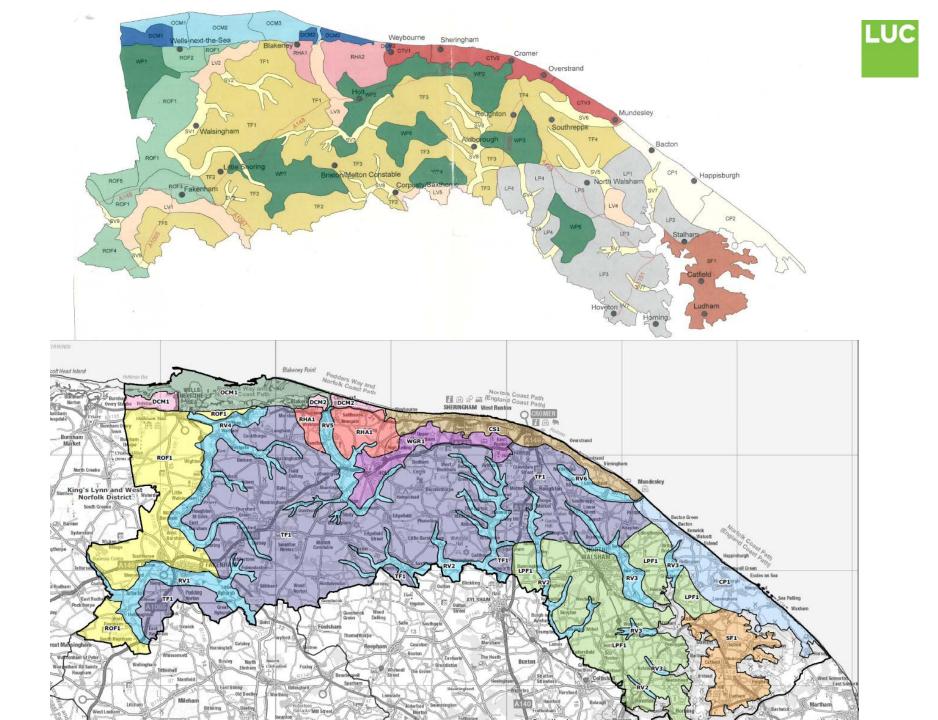
### **Desk study - tranquillity**



### Desk study – dark skies



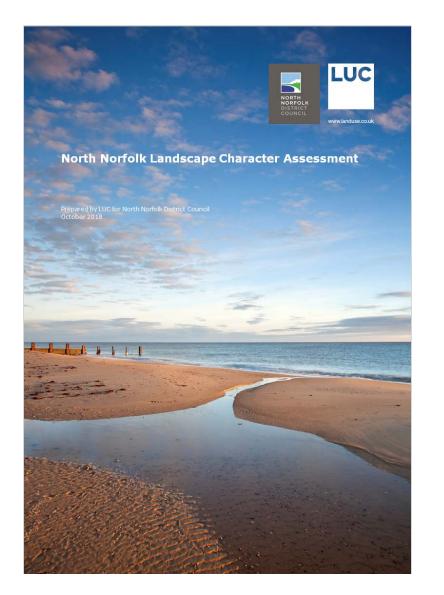






Ref	Туре	Area (s)
ROF	Rolling Open Farmland	ROF1 Holkham to Raynham
TF	Tributary Farmland	TF1 North Norfolk Tributary Farmland
LPF	Low Plains Farmland	LPF1 North Norfolk Low Plains Farmland
RV	River Valleys	RV1 River Wensum and tributaries
		RV2 River Bure and tributaries
		RV3 River Ant and tributaries
		RV4 River Stiffkey and tributaries
		RV5 River Glaven and tributaries
		RV6 Mundesley Beck
SF	Settled Farmland	SF1 Stalham, Ludham and Potter Heigham
СР	Coastal Plain	CP1 Bacton to Waxham
CS	Coastal Shelf	CS1 Weybourne to Mundesley
WGR	Wooded Glacial Ridge	WGR1 Wooded Glacial Cromer Ridge
RHA	Rolling Heath and Arable	RHA1 Blakeney, Salthouse & Kelling
DCM	Drained Coastal Marshes	DCM1 Holkham Drained Marshes
		DCM2 Blakeney, Wiveton, Cley and Salthouse Drained Marshes
ОСМ	Open Coastal Marshes	OCM1 Wells to Morston Marshes





#### Part 1: Overview

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#### Part 2: Landscape Character Type Profiles

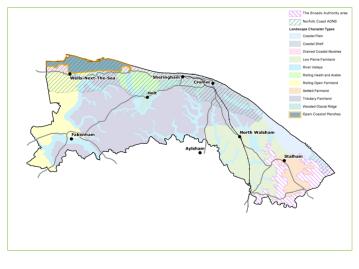
ROF: Rolling Open Farmland	tbc
TF: Tributary Farmland	tbc
LPF: Low Plains Farmland	tbc
RV: River Valleys	tbc
SF: Settled Farmland	tbc
CP: Coastal Plain	tbc
GR: Glacial Ridge	tbc
DCM: Drained Coastal Marshes	tbc
OCM: Open Coastal Marshes	tbc

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#### **Open Coastal Marshes (OCM)**





#### **Open Coastal Marshes (OCM)**

#### SUMMARY

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 and ecological value.

The mean low water mark, or the channel entrances at Wells and Blakeney, delineates the northern boundary beyond which is the open sea. At its western end, the Open Coastal Marsh meets Drained Coastal Marsh at Wells-next-the-Sea, the boundary clearly marked by The Bank (Beach Road). At its eastern end, the Open Coastal Marshes meet more Drained Coastal Marshes at Blakeney. The southern (inland) boundary of the Type is defined by rising land associated with the Rolling Open Farmland and Tributary Farmland Types, and a series of intermittent sea defences (lengthy earth embankments and the hard quayside defences at Wells Quay, Blakeney and Cley).

#### **Component Areas**

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

OCM1 - Wells to Morston Marshes



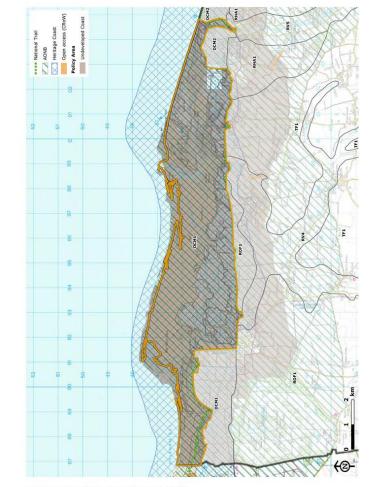
Holkham bay and beach with coastal pine woods in the background

North Norfolk Landscape Character Assessment



Location of OCM1



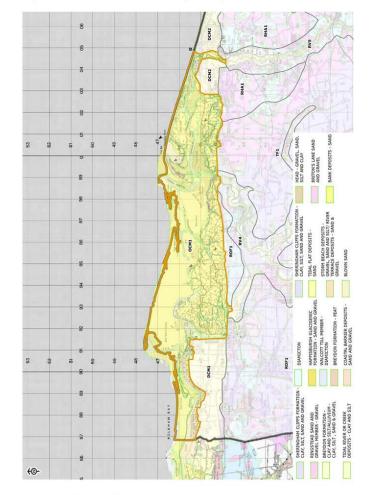


Landscape designations and policy area - OCM1

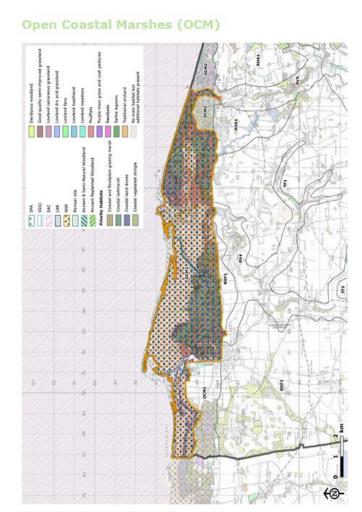


Topography and hydrology – OCM1

#### **Open Coastal Marshes (OCM)**

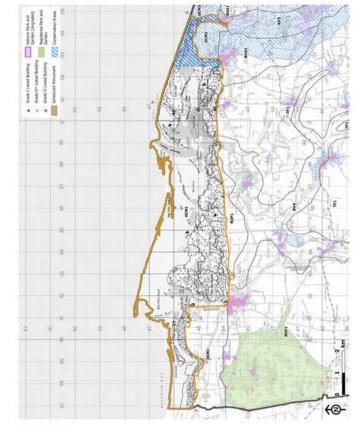


Superficial geology - OCM1



Nature conservation designations and priority habitats

#### **Open Coastal Marshes (OCM)**



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Cultural heritage designations

#### **Open Coastal Marshes (OCM)**

#### **KEY CHARACTERISTICS**

#### 1) Flat, open landscape of saltmarshes, creeks, sand bars and mudflats

The low lying coast is one of the few examples of a barrier system in Europe. The whole is a valuable complex of saltmarshes generally developing behind sand dunes and shingle structures, together with extensive areas of intertidal sand and mudflats. Some sandbars have formed sand dune complexes (in one instance with Corsican Pines).

The topography is generally very flat except for small rises where dunes have formed on the seaward side of the marsh (rising no more than 7m). The creeks within the marsh are a significant element throughout the Type, and vary greatly in width from less than 1m to over 60m. The large sandy lagoon at Blakeney (3 miles long) is a major feature of the Type.

#### 2) A constantly changing natural landscape

The whole dynamic of the marsh, creeks and dunes is constantly changing, both with the tides and through growth / shrinkage over longer timescales. The salt marshes are relatively stable with gradually changing communities of plants in some places. The mud flats and sandbanks are liable to change location, species content and extent more readily. The middle and upper levels of Holkham's saltmarshes are home to Sea Aster and Sea Lavender which form a misty-blue haze when in flower.

#### 3) Holkham Meals sand dune system and pine woods

The sand dune systems contain a great diversity of plant species and important transitions from pioneer to mature. The 'Holkham Meals' have distinctive Corsican and Black pines and are valued for their distinctive skyline and unusual ecological system (part of the NNR).

#### 4) Little human interference and absence of settlement

Some human intervention has altered the line of creeks (Blakeney Cut, Wells-next-the-Sea Harbour, Stiffkey Harbour and several other similar re-directions), but natural forces have created the majority of the landscape and the area remains a natural landscape. Settlement is largely absent, except for a few individual buildings (e.g. Morston look out, Blakeney Point former RNLI station and Wells RNLI station, beach huts and hides). At Wells, an outer harbour has been developed that now hosts maintenance vessels that service the offshore wind farms. The maintenance boats and dredging vessel is now a prominent detracting feature.

#### 5) Great nature conservation interest and a haven for breeding birds

The area contains many priority habitats including mud flats, coastal salt marsh, coastal sand dunes, coastal vegetated shingle and reedbeds. The muddy creeks, flooded daily by the tide, are a perfect place for breeding birds and the marshes are of international importance, reflected through the many designations (part of the Wash and North Norfolk Coast European Marine Site, a Special Protection Area (SPA), Special Area of Conservation (SAC), SSSI, National Nature Reserve and Ramsar site).

#### 6) Boats are a feature, their masts prominent in the flat landscape

Moored boats are within the creeks (at Wells-next-the-Sea, Stiffkey, Morston and Blakeney) and within the large lagoon at Blakeney. Different sizes of boat tend to inhabit comparably sized creeks. Most of the boating activity now comprises leisure use with dinghies and small craft, although at Wells-next-the-Sea and Blakeney, larger yachts are present. There are boat parks at Blakeney and Morston and smaller more ad hoc boat parks at Stiffkey Freshes and at Stiffkey marsh

#### 7) Absence of roads but many footpaths and trackways

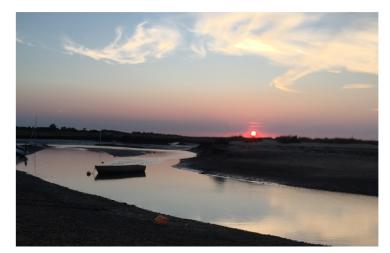
Footpaths and trackways provide access to the harbours / creeks and bird hides. A footpath follows the southern edge of the Type to form a continuous long distance path (Peddars Way and Norfolk Coast Path National Trail). There are two large car parks associated with the villages of Morston and Blakeney on the boundary of the Type, which are very prominent, especially in the

#### **Open Coastal Marshes (OCM)**

summer when many cars are present and due to window glare.

#### 8) Long, uninterrupted views

Long views across the open marshes to rising dune lands on the seaward side of the Type and to rising land in inland areas to the south. There is an open and expansive skyline in which boat masts are a characteristic feature.



Sunset at Freshers Creek, Stiffkey

#### VALUED FEATURES AND QUALITIES

#### 1) Natural character and nature conservation value

Extensive natural and semi-natural habitats including coastal saltmarsh, coastal sand dunes and mud flats are relatively rare and provide internationally important biodiversity and geodiversity, reflected in the high number of statutory designations. The natural character provides a contrast to the intensely managed farmland which occupies the inland areas.

#### 2) Relative absence of human settlement and intervention

The general absence of settlement and human intervention provides a strong sense of remoteness, tranquillity and wildness (and dark skies at night).

#### 3) The sense of openness, large skies, and quality of coastal light

These characteristics provide a sense of space and long views.

4) Recreational value

The beaches, footpaths, bird hides and boat moorings provide significant recreational value and enable managed enjoyment of the landscape by visitors.

orth Norfolk Landscape Character Assessment

#### **Open Coastal Marshes (OCM)**

Many of the Valued Features and Qualities of the Open Coastal Marshes are considered to contribute positively to Key Qualities of Natural Beauty of the Norfolk Coast AONB, as set out within the current AONB Management Plan. These Key Qualities include:

- Dynamic character and geomorphology of the coast
- Strong and distinctive links between land and sea
- Exceptionally important, varied and distinctive biodiversity, based on locally distinctive habitats
- Sense of remoteness, tranquillity and wildness.



The Open Coastal Marsh has a strong natural character, sense of remoteness and tranguillity

#### FORCES FOR CHANGE / DETRACTORS

#### 1) Recreational pressure from boating activities including organised boat trips

Increases in boating activity over the years has created significant numbers of moorings for yachts and other craft at Blakeney ('The Cut' near the Village and 'The Pit' near Blakeney Point) and at Wells-next-the-Sea and Morston.

The development of boat trips (to Blakeney Point and the seal grounds) has encouraged large numbers of cars to Morston. The parking of cars on the hard is highly visible from this Type. These effects can detract from the wild/ natural character of the Type.

#### 2) Changes in neighbouring areas inland affecting views

The open character of this area means that any changes on the rising land to the south can affect views and the character of the open coastal marshes. Development in adjacent areas has the potential to increase light pollution. This limits the capacity for new development in land adjacent to this Type.

#### **Open Coastal Marshes (OCM)**

#### 3) Changes in water management / sea levels

The imposition of different water management processes (natural or man-made) can affect vegetation height/ colour/ texture. Sea level change could also affect this finely balanced ecosystem.

#### 4) Recreation-related development

Features such as hides, lighting, small car parks, golf courses, camping and glamping facilities andr other human related interventions can have an adverse impact on the 'wild' and natural character of the landscape, as can large numbers of people in the landscape which can cause erosion of habitats and disturbance to species.

#### 5) Climate change

Climate change could affect the delicate ecosystem of the marshes by through sea-level rise resulting in 'coastal squeeze' and loss of the marshes. Marshes may accrete vertically over longer time periods, but be vulnerable with rapid rises.

#### 6) Renewable energy development

Sheringham Shoal wind farm and other new off shore wind farms (e.g. Dudgeon) are visible from this remote landscape and have the potential to affect its perception of remoteness and/or create a 'limit' to the skyline and horizon.

#### 7) Coastal change

Coastal change is likely to comprise a continuing increase in sediment along the coast, with the barrier beach at Blakeney Spit moving towards the west by up to 3.5m a year, and a general movement of beaches towards the land during storms, including dunes at Blakeney Point. Other areas such as Holkham fore-dunes have grown in recent years. The rollback of barriers is causing a gradual overall loss of saltmarsh area, although this has been offset by the development of some new saltmarsh behind newly-formed barriers.

#### LANDSCAPE VISION

The vision for this landscape type is a naturally dynamic landscape comprising a mosaic of saltmarsh, mud and sandflats, shingle and dunes, which is shaped by the tides where natural forces predominate. An area which prioritises the conservation and enhancement of the highly valued coastal ecosystem and its wilderness qualities, including dark skies at night and scenic unspoilt views, and with sensitively managed recreational access.

#### LANDSCAPE GUIDELINES

#### 1) Conserve the natural character and nature conservation value

Conserve the intertidal mudflats and saltmarshes as important winter-feeding areas for waders and wildfowl, protect the dune systems along the coast as habitats for a rich diversity of flora, protect, restore degraded areas of coastal vegetated shingle beaches and maximise the nature conservation value of saltmarsh vegetation on The Wash through re-introduction of grazing where appropriate and where there is an historical tradition of grazing. Retain small transitional areas of heathland and grassland where these buffer agricultural land at the edge of the marsh.

#### 2) Protect and enhance the wild and remote character

Avoid built structures generally, but where small structures (such as hides) are considered essential, ensure that they are designed to exceptionally high standards using natural materials and avoid invasive lighting so that they do not detract from the inherent 'wild' character of the landscape.

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North Norfolk Landscape Character Assessment



#### **Open Coastal Marshes (OCM)**

Consider the location and design of built development in adjacent inland landscape types (including consideration of lighting at night), ensuring that development does not detract from the sense of naturalness and remoteness in the Open Coastal Marshes.

Consider opportunities to address existing light pollution by means of replacement downlighting or complete removal of lighting where possible both in and close to the marshes.

3) Maintain the sense of openness, large skies, and quality of coastal light

Conserve open views across the sea, marshes and adjacent coastal slopes. Provide opportunities for visitors to stop and appreciate these views. Avoid introduction of vertical elements which would interrupt the skyline and distract from open views.

4) Manage recreational access sensitively, prioritising nature conservation

Develop coordinated management of recreation throughout the Open Coastal Marshes to protect sensitive habitats and species. Consider careful screening or restricting / relocating care parking from the foreshore whilst ensuring that recreational access to the landscape at suitable locations (existing footpaths / trails) is maintained and enhanced. Any facilities which seek to accommodate the needs of visitors to the area and recreational activities should be designed to manage and ideally limit the impacts of recreational visitor pressure on the sensitive features of this landscape.

5) Prepare for climate change

Enable the natural coastal processes to continually develop coastal habitats as long as this does not conflict with the Shoreline Management Plan.



The Open Coastal Marsh beyond Wells-next-the-Sea harbour

What type of change is proposed?





landscape objectives?

If not, can adverse effects be reduced or offset? How?



### North Norfolk Landscape Sensitivity Assessment

with particular reference to renewable energy and low carbon development

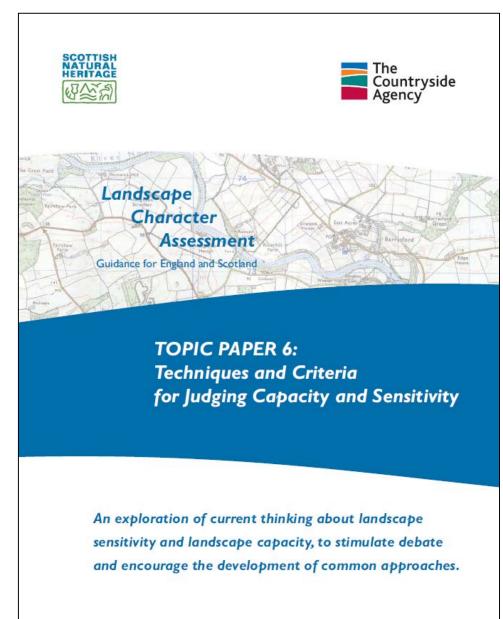
15<sup>th</sup> October 2018

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# **This presentation - aims**

- Provide a brief introduction to landscape sensitivity assessment and why it is useful
- Our brief/ need for the work
- How we approached the sensitivity assessment
- Results in maps
- The content of the report
- How to use the information in the report getting the right development in the right place

# What is landscape sensitivity assessment?



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'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'.

Paragraph 4.2 of Topic Paper 6

### Need for the work

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NPPF 2018:

- 151. 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

### **Our approach in North Norfolk**



### Aim:

To maximise renewable energy generation and achieve the greatest contribution towards our energy needs, while ensuring landscape character and values are respected.

### **Our approach in North Norfolk**



### Types of development assessed



### **Our approach in North Norfolk**

### Types of development assessed





#### Types of development assessed

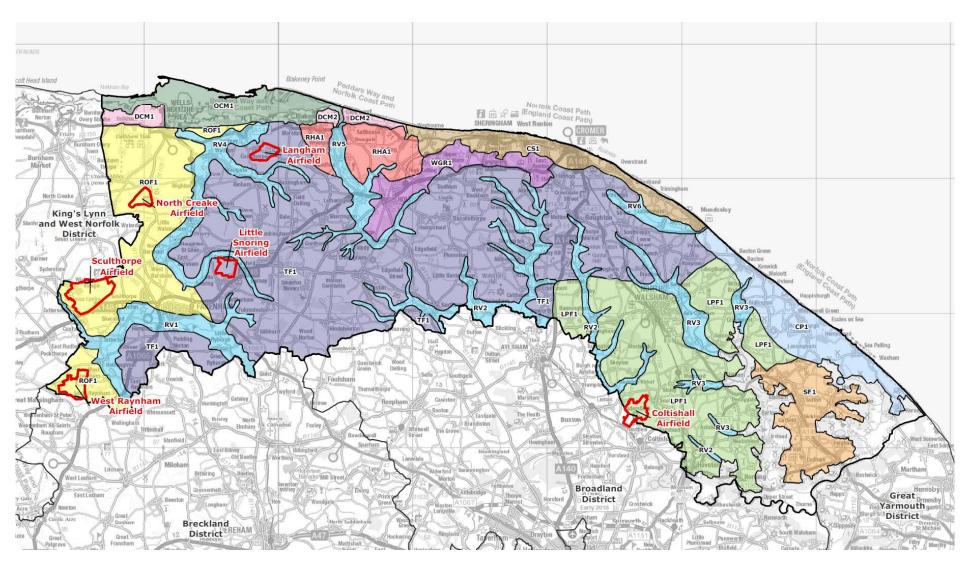


#### Types of development assessed

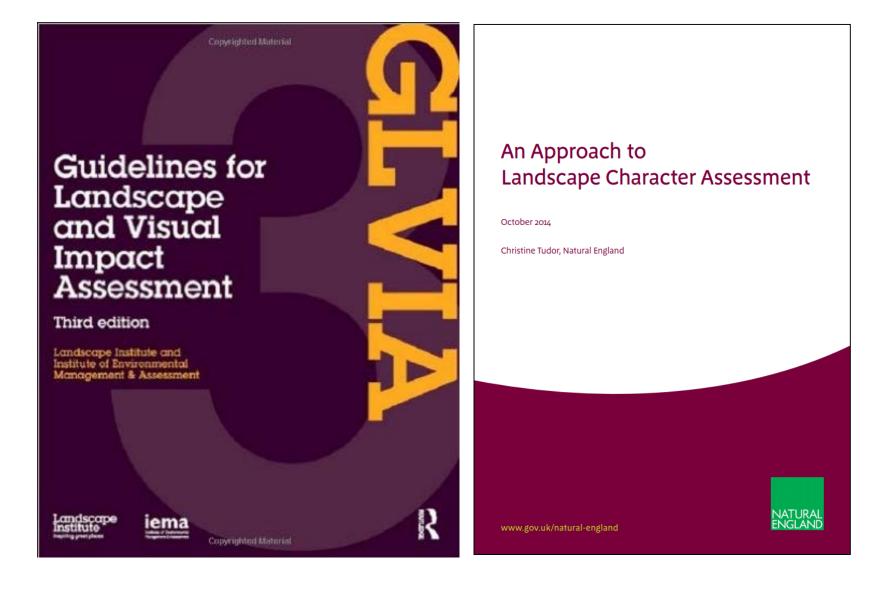




#### **Spatial framework:**







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#### Assessment criteria:

Susceptibility criteria

- Topography and skylines
- Landcover
- Sense of openness/ enclosure
- Scale and landscape pattern/ complexity
- Sense of tranquillity, remoteness and rurality; current level of human influence/ development
- Time depth / historical continuity

Value criteria

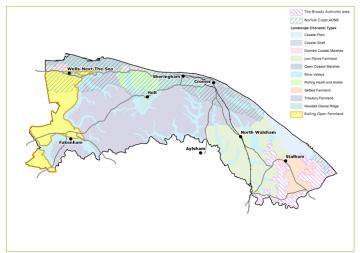
- Presence of landscape designations and extent to which their special qualities could be affected
- Other indicators of value: scenic quality, rarity, intactness, representativeness, nature conservation and cultural heritage interests, recreational value, and associations with artists or writers



Sensitivity Level	Definition
High (H)	The key characteristics and values of the landscape are highly sensitive to change from the type and scale of development being assessed.
Moderate-High (M-H)	The key characteristics and values of the landscape are sensitive to change from the type and scale of development being assessed.
Moderate (M)	Some of the key characteristics and values of the landscape are sensitive to change from the type and scale of development being assessed.
Low-Moderate (L-M)	Few of the key characteristics and values of the landscape are sensitive to change from the type and scale of development being assessed.
Low (L)	Key characteristics and values of the landscape are robust and are less likely to be adversely affected by the type and scale of development being assessed.

#### Rolling Open Farmland (ROF)





#### **Rolling Open Farmland (ROF)**

#### **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-nextthe-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 Characteristics<sup>1</sup>

- · 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.

Iorth Norfolk Landscape Sensitivity Assessment

<sup>&</sup>lt;sup>1</sup> Detailed information about landscape character and valued features is set out in the North Norfolk Landscape Character Assessment (2018)

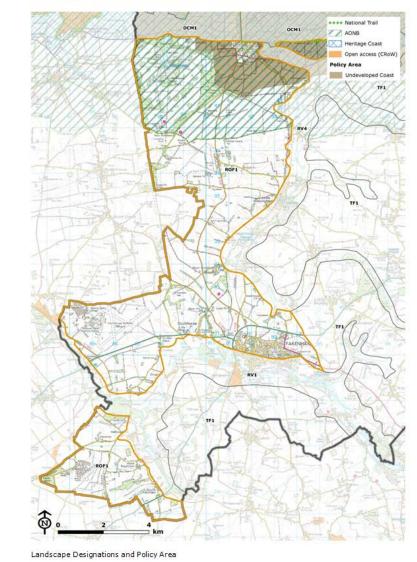


# **Rolling Open Farmland (ROF)** OCH1 ROF RV1

TEL

TF1

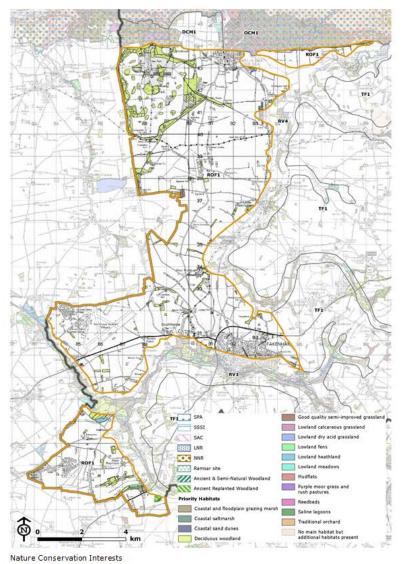
#### **Rolling Open Farmland (ROF)**



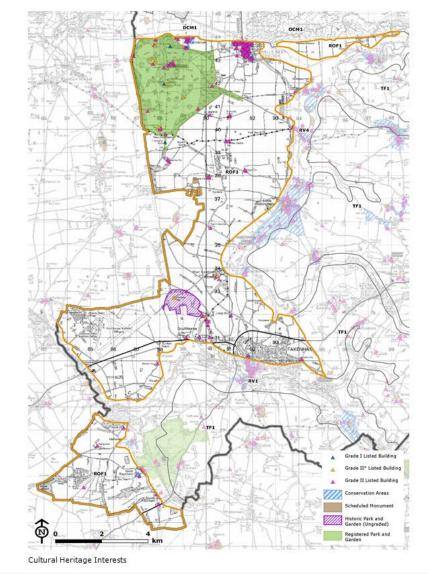
Location of ROF1







#### **Rolling Open Farmland (ROF)**



#### **Rolling Open Farmland (ROF)**

#### 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 to the development type	ſ	stron	utes do gly influ tivity in tion	lence	-	dev type	erion/ elopme e not licable	ent	≍
Sens Crite	itivity ria	Characteristics of t	he LCT			of high velopn		ver su: /pe	sceptil	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
Susc	eptibilit	y Criteria										
Topo <u>c</u> & skyl	graphy lines	plateau sloping down generally undevelop punctuated by histor such as church towe skylines and the ster those on the bound	ly increase susceptibility	1	ſ	ſ	1	1	1	ſ	1	1
Lando	cover	Park and in the far s Raynham. The regist Holkham is in contra landcover of the LCT	lative to other LCTs. igher around Holkham outh around West tered parkland at st to the typical arable					Î				
Sense openr enclo:	ness/	character due to the	dform. This lack of tainment generally	1	1	1	1	1	1	1	1	1
Scale (landf and comp		Typically a large sca large, geometric field sparse settlement le simple and regulated	ds, low hedges and	Î	ſ	Î	Î	*	-	-	—	ſ

#### **Rolling Open Farmland (ROF)**

KEY	increas	e sensitivity to relopment type	Attributes generally decrease sensitivity to the development type	Î	stron	utes do gly influ tivity in tion	ience	-	dev type	erion/ elopme e not licable	int	×
Sens Crite	itivity ria	Characteristics of t	he LCT			of high velopn		ver sus /pe	sceptil	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
features), landscape pattern & complexity		simplicity and consistency of landscape pattern generally reduces susceptibility to the more expansive and larger scale developments. It has less influence on the smaller scale developments.										
Sense of tranquillity/ remoteness/ rurality & level of human influence Undeveloped Coast policy area		Strong sense of tranquillity, remoteness and traditional rurality in large areas of quiet farmland, which reduces in the vicinity of the few settlements (particularly Fakenham and to a lesser extent Wells) and main roads (in particular the A149 coast road and in busy tourist seasons). This general absence of modern human influence and development on the landscape increases susceptibility to all types of built form, relative to more 'developed' landscapes.			1	ſ	1	1	1	1	1	ſ
historical d continuity c (( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (		Historic landscape types within the LCT are dominated by extensive 18th – 19th century enclosures, together with 20th century agriculture and areas of informal parkland associated with historic estates (Holkham Hall, Cranmer Hall and West Barsham Hall). This typically does not strongly influence susceptibility, except in the vicinity of the historic parklands, where susceptibility will be locally increased to all development types.										
Value	e Criteri	a										
lands desig and e to whi	nations xtent ich special ies be	designated Norfolk C The presence of the overall sensitivity of generally all forms o consideration are likk defined special qualit	AONB increases the	1	1	ſ	1	1	1	1	1	1

North Norfolk Landscape Sensitivity Assessment

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#### **Rolling Open Farmland (ROF)**

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.

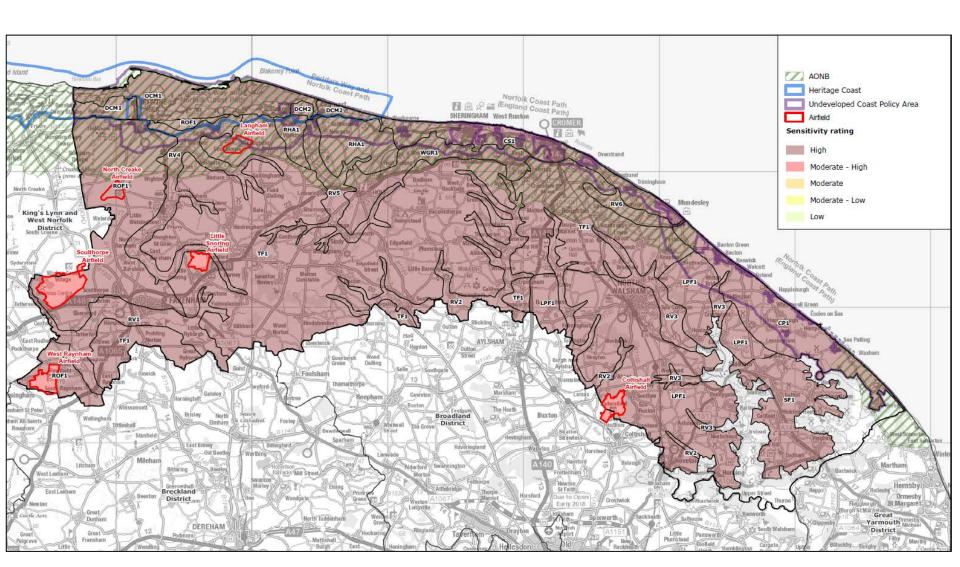
Development Type	A O N B	Reason for judgement	Overall Sensitivity
Large scale wind turbines, (up to 80m hub height)	оит	Although the gently rolling landform, relatively large landscape scale, regular landscape pattern of arable fields and relatively low density of wildlife, earth science or cultural 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 1 Registered parkland at Holkham Hall and the Conservation Areas of Holkham and Wells-next-the-Sea (and their associated clusters of listed buildings) also have sensitivities associated with them.	High
Medium scale wind turbines, (up to 60m hub height)	оит	The gently rolling landform, relatively large landscape scale, regular landscape pattern of arable fields and relatively low density of wildlife, earth science or cultural designations reduce sensitivity to medium scale wind turbines. However, the open, exposed and strongly rural character, prominent and undeveloped skylines, and relatively high scenic quality with long uninterrupted views, all increase sensitivity. Overall, typical sensitivity to this scale of turbine is considered to be moderate-high.	Moderate- High
		Localised areas of higher sensitivity relate to the Scheduled Monuments at Egmere and Crabb's Castle, Sculthorpe and West Raynham Conservation Areas which have their own specific cultural heritage sensitivities, and areas that are visible from the adjacent River Valleys LCT and close to the AONB, or where a development could affect the special qualities of the AONB.	
	IN	The landscape characteristics and attributes outlined above apply equally within the AONB; however, sensitivity is increased further due to the nationally valued scenic qualities and natural beauty of the landscape. Overall, typical sensitivity to this scale of turbine is considered to be high in the area of ROF that falls within the AONB.	 High
		In addition, the Grade I Registered parkland at Holkham Hall, the Conservation Areas of Holkham and Wells-next-the-Sea (and their associated clusters of listed buildings) have additional cultural heritage sensitivities.	

#### **Rolling Open Farmland (ROF)**

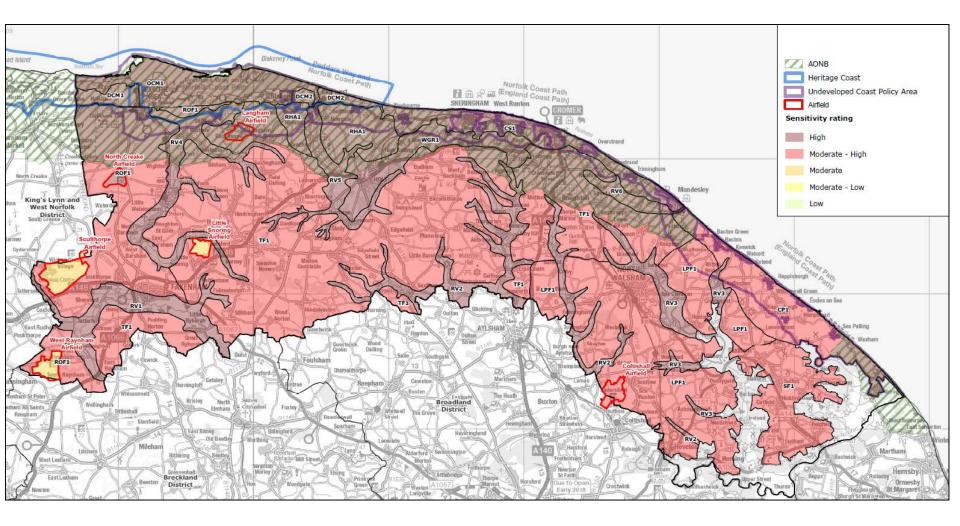
Small scale wind turbines, (up to 30m hub height)	оит	The gently rolling landform, relatively large landscape scale, regular landscape pattern of arable fields and relatively low density of wildlife, earth science or cultural designations reduce sensitivity to small scale wind turbines. However, the open, exposed and strongly rural character, prominent and undeveloped skylines, and relatively high scenic quality with long uninterrupted views, all increase sensitivity. Overall, typical sensitivity to this scale of turbine is considered to be moderate.	
		Localised areas of lower sensitivity include those where the strongly rural character diminishes and modern human influence is greater; notably around parts of the urban fringe of Fakenham, which has a busier character and larger-scale development is also visible on the skyline.	
		Localised areas of higher sensitivity relate to the Scheduled Monuments at Egmere and Crabb's Castle, Sculthorpe and West Raynham Conservation Areas, areas close to landmark skyline features such as the church towers of St Mary and All Saints, Sculthorpe and St Peter, Dunton, and areas that are visible from the adjacent River Valleys LCT.	
	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 coastine 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.	High
		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.	
Field-scale solar PV development (above 10 hectares site area)	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 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 scorening, 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.	Moderate- High
		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.	
	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 AONE. The above application of the ADNE of	High
Onshore cable routes for offshore wind farms (30m – 80m clearance)	оит	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.	Moderate
		Localised areas of higher sensitivity relate to the Scheduled Monuments at Egmere and Crabb's Castle, Sculthorpe and West Raynham Conservation Areas, parkiand at Cranmer and West Barsham, ancient woodland at Raby's Wood, and upper visible slopes.	

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### Results – large wind turbines (130m to tip)

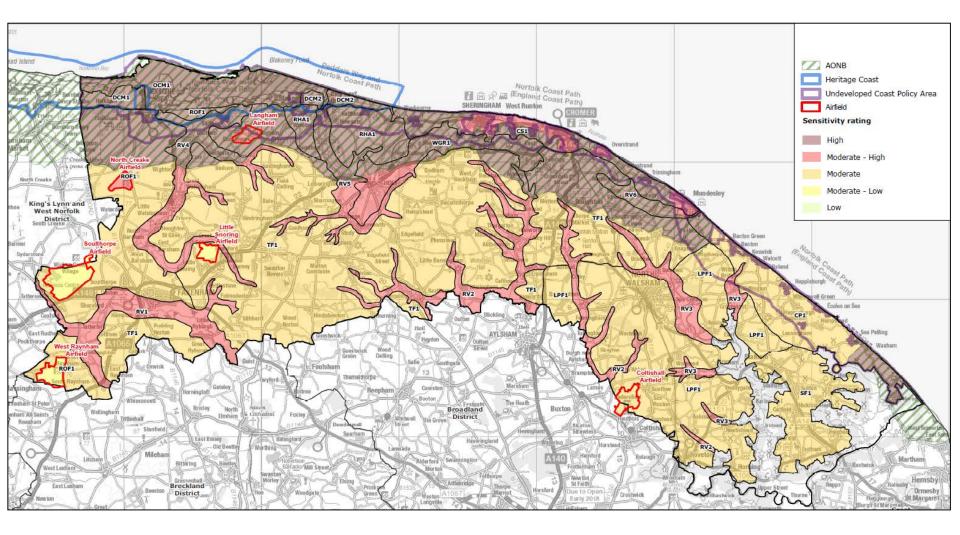


## Results – medium wind turbines (100m to tip)



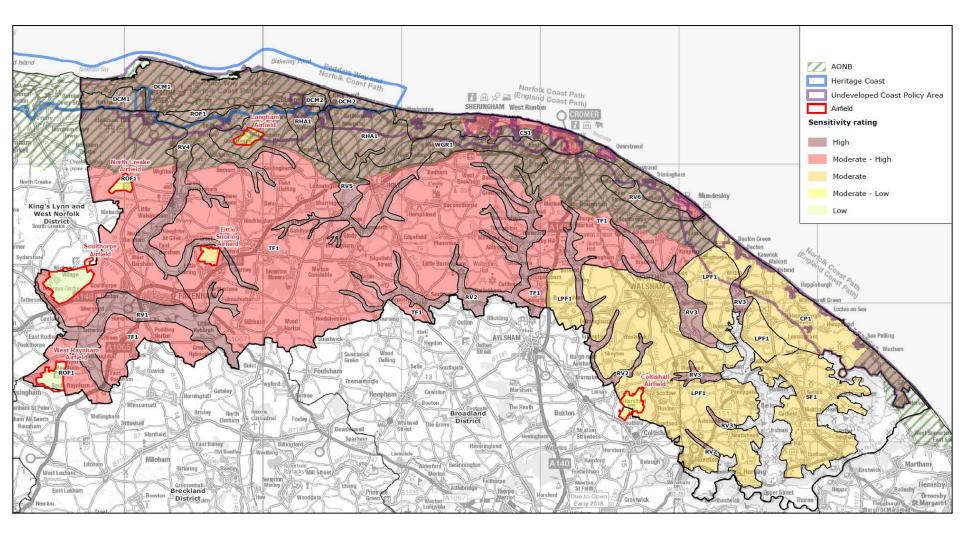
### **Results – small wind turbines**





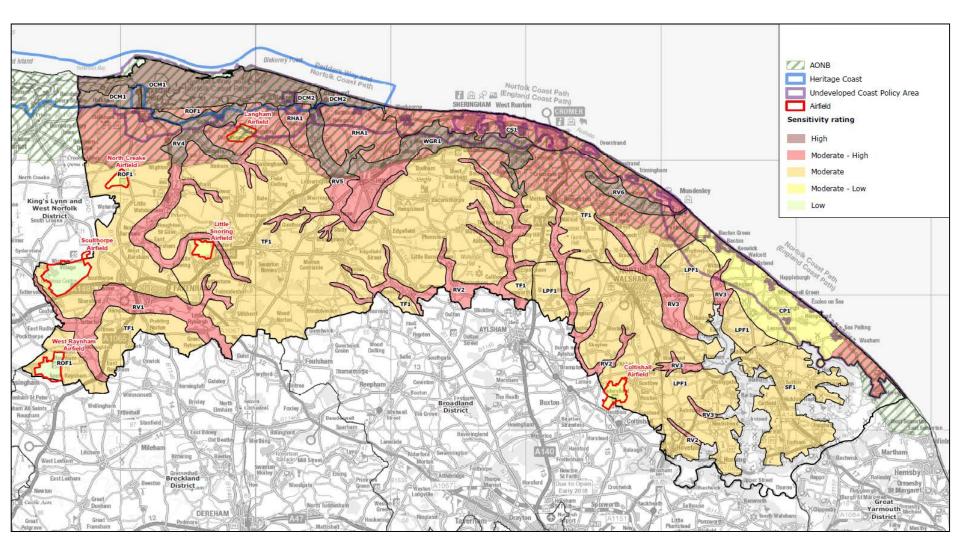
### **Results – solar PV**



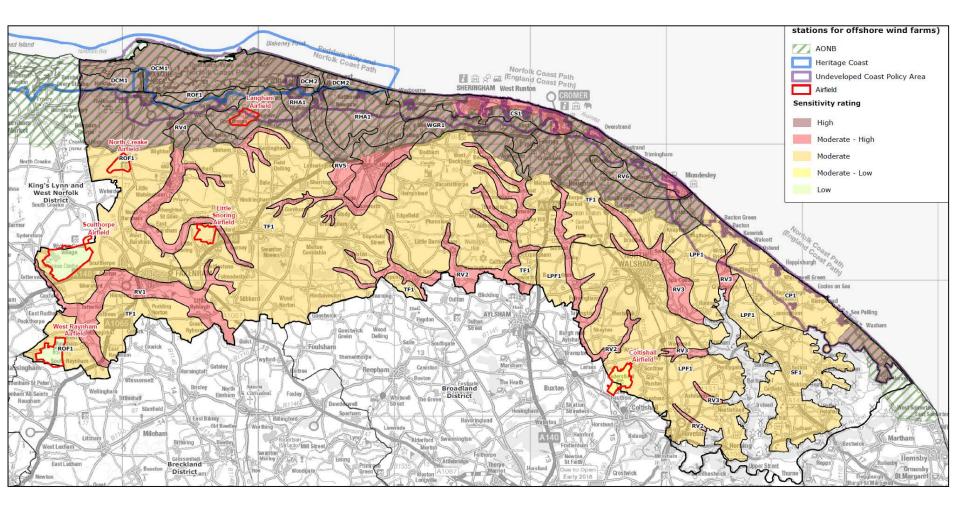


### **Results – onshore cable routes**





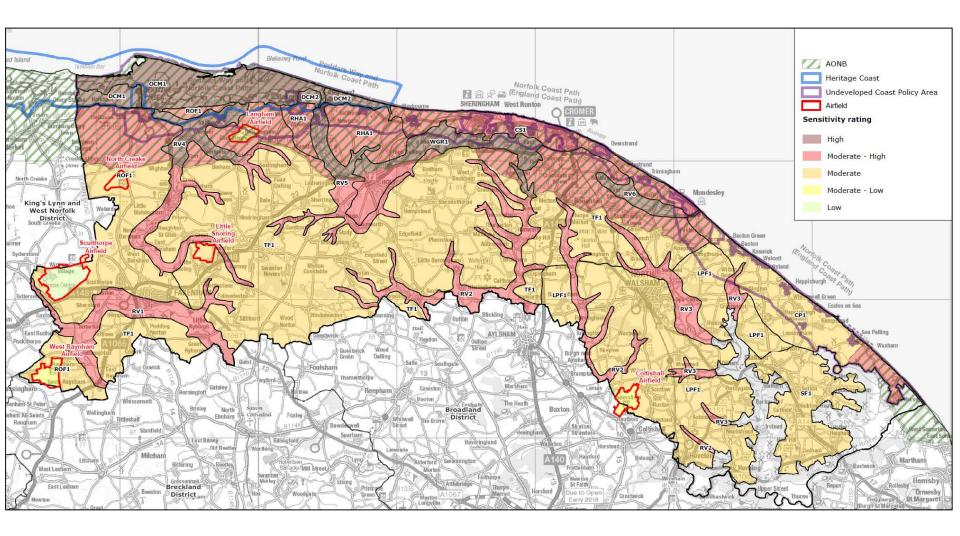
## Results – anaerobic digestion, battery storage, substations





### **Results - reservoirs**







## How to use the information – getting the right development in the right place

- Assist in identifying suitable locations for renewable and low carbon energy (LPA);
- Assessing and appraising planning applications (developers and decision makers);
- To develop policy in relation to renewable and low carbon energy and impacts on landscape (LPA).

