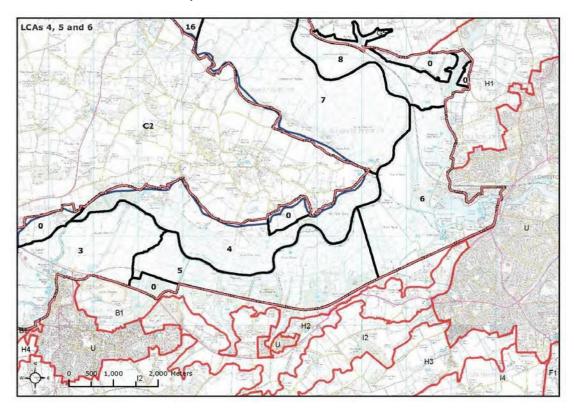
LCA 4: Waveney Valley – Aldeby to Burgh St Peter: LCA 5: Waveney Valley-Worlingham Wall to Boundary Dyke, Barnby: LCA 6: Waveney Valley -Boundary Dyke Barnby to The Fleet, Oulton

Location and landscape character context



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Landscape Sensitivity Assessment for Wind Turbines

Landscape Sensitivit	ty Assessment for Wind T	di billes				
Criteria	Lower sensitivity	←	Higher sensitivity			
1.Scenic and special qualities	Some of the special qualities of the Broads are present within these areas, specifically the wide and open landscapes of the marshes within areas 5 and 6. These wide open areas are sensitive to movement and changes to scale as a result of the introduction of wind turbines. The areas have a relatively strong sense of tranquillity away from settlement edges and communication corridors indicating a higher sensitivity to large scale elements which contrast with the mostly tranquil and isolated character. In addition, turbines would introduce a level of aural and visual intrusion in a relatively remote area.					
2.Enclosure and scale	in landform (i.e. the adjace the Broads Executive Area and Stanley carrs in area and Old Broad in area 5). of the River Waveney prove These areas are sensitive to features and passing boati Elsewhere the areas are concepts.	ilinear enclosures and ed variation. Enclosure ent South Norfolk and) and small clusters of and North Cove National and North Cove National addition, areas of ride enclosure within to wind turbine develong traffic providing a posiderably more open Marsh) which would have to the reduced second s	small scale blocks of carr e is formed by the variation Waveney ridges outside f carr woodland (i.e. Alder ure Reserve, Barnby Broad eed rond along the course the more open marshes. opment with landscape relative sense of scale. In (large scale marshes i.e. have a lower sensitivity to ense of scale with no visual			
3.Landscape and land cover pattern	a mosaic of carr woodland with reed fringed edges. W textured surface and this of to wind turbines. The wood	, open marshland and /hen combined, these liversity of elements in ded settlement at the and is sensitive to win	elements create a rich and ndicates a higher sensitivity edge of Oulton Broad is d turbine development due			
4.Skylines	where development at Low Gently rising ridgelines in	vestoft is visible on the adjacent South Now istant views. These reare sensitive to wind are development forms in South Norfolk, and alliver) visible from ar	orfolk and Waveney Districts elatively uninterrupted views turbine development. s part of the skyline (i.e. overhead power lines and rea 5). These features			
5.Perception and experience of the landscape	there is some localised into	rusion on the edges (I d gravel extraction pit and 6 have provision cal footpaths across th d (recreation). Area 4	ts in South Norfolk District). for access along the river ne marshes, in addition to is less well served with			

	each of the areas. Although there are some localised intrusions, all landscape character areas would be sensitive overall to wind turbine					
	development in perceptua	al terms.				
6.Historic landscape character	A number of sensitive historic landscape types are apparent; specifically in area 6 which retains 16 th and 17 th century grazing marshes and where Edwardian waterside development at Oulton Broad is recognised through Conservation Area status. Such small scale features would be sensitive to wind turbine development. Elsewhere, localised features such as Worlingham medieval wall (today a raised tree lined corridor) in the west of area 5 and 17 th and 18 th century farmsteads on the northern fringes of area 4 are of higher sensitivity to wind turbine development. Some areas of lower sensitivity HLT's are evident, although this is confined to localised areas of large scale rectilinear field patterns which are a result of field boundary removal (e.g. central parts of area 4 and eastern parts of area 5).					
7.Visual	The onen overses of ever	ahaa maasidd	an diabank views with a re-			
sensitivities and intervisibility with areas outside the Broads	The open expanse of marshes provides distant views with some intervisibility into adjacent character areas (i.e. South Norfolk District area B1 and C2 and Waveney District area H2) which would indicate a higher sensitivity to wind turbines. Areas of enclosed landscape character adjacent to blocks of carr woodland or rising topography create containment and would therefore have lower sensitivity to wind turbine development.					
Discussion on landscape sensitivity	Overall the areas are considered to have a moderate - high sensitivity to wind turbine development in general. This is due to the representation of some of the Broads special qualities within these character areas. Specifically reference is made to the varied landscape pattern and scale, the historic landscape character associated with 16 th and 17 th century marshes, the winding river corridor and provision for boating, the sense of tranquillity across the marshes and the presence of Edwardian settlement surrounding Oulton Broad. Sensitivity is lowered as a result of localised intrusion at Lowestoft, the sand and gravel pits in South Norfolk District, and areas of large scale 20 th century rectilinear field patterns which results in an overall judgement of moderate – high. This judgement also applies to large infrastructure for off shore wind farm schemes, such as pylons.					
	Land within the charac	ter areas	Land outside the Ex	ecutive Area		
	Small (15-20m)	М-Н	Small (15-20m)	м-н		
Sensitivity to different turbine	Medium (20-50m)	н	Medium (20-50m)	м-н		
heights	Large (50-70m)	н	Large (50-70m)	н		
	Very large (70m+)	Н	Very large (70m+)	Н		

Commentary:

Within areas 4, 5 and 6, the introduction of medium, large and very large scale turbines would introduce elements out of scale with the existing features and could become focus points in a relatively undeveloped landscape. It is however noted, that when carefully sited, some areas are less sensitive to small scale turbines of 15-20m to tip height due to existing scale of landscape and elements.

Landscapes outside the Executive Area

Relevant character areas and sensitivities are:

South Norfolk -

C2 Thurlton Tributary Farmland with Parkland: Views open out to the Broads where land rises up from the low lying Waveney Valley.

Waveney -

B1 Waveney Valley: Rising valley sides (15-20m AOD) evident in views from the Broads.

H2 Waveney Tributary Valley Farmland: Gently sloping valley sides providing views out into the Broads with some smaller blocks of woodland.

Given the prominence of the adjacent ridges in relation to the Broads landscapes, landscape sensitivity to the largest turbines in the typology is the same as for the areas in the Broads as set out above. Character areas which are partially screened from within the Broads by clusters of woodland (H2) and rising landform indicate a lower sensitivity to wind turbines of smaller scale (small and medium). However, these would need careful consideration with their relationship with the Broads, due to topography, skylines and land cover.

Commentary on different cluster sizes

Single turbine Small clusters (<5 turbines) Medium (6-10) Large (11-25) Very large (>26)

Land within the character areas La		Land outside the Executive Area	
Single turbine	М-Н	Single turbine	М-Н
<5 turbines	Н	<5 turbines	М-Н
6-10 turbines	Н	6-10 turbines	Н
11-25 turbines	Н	11-25 turbines	Н
>26 turbines	H	>26 turbines	Н

Commentary:

Clusters of turbines would be likely to have greatest impact upon the character of these areas creating a level of visual intrusion in what are relatively undeveloped skylines. As a result, areas 4, 5 and 6 are considered to have the highest level of sensitivity to clusters of turbines due to the complex pattern of elements, largely uninterrupted views and skylines and the tranquil character of the marshes. There is however lower sensitivity to single wind turbines of a small scale although careful siting and design would be needed in relation to existing features which form part of the skyline and historic character.

Landscapes outside the Executive Area

Relevant character areas and sensitivities are:

South Norfolk -

C2 Thurlton Tributary Farmland with Parkland: Views open out to the Broads where land rises up from the low lying Waveney Valley.

Waveney -

B1 Waveney Valley: Rising valley sides (15-20m AOD) evident in views from the Broads.

H2 Waveney Tributary Valley Farmland: Gently sloping valley sides providing views out into the Broads with some smaller blocks of woodland.

Given the prominence of the adjacent ridges in relation to the Broads landscapes, landscape sensitivity to the largest turbine clusters is the same as for the areas in the Broads as set out above. Character areas which are partially screened from within the Broads by clusters of woodland (area H2) and rising landform indicate a lower sensitivity to clusters of up to five turbines. However, these would need careful consideration to their relationship with the Broads, due to topography, skylines and land cover.