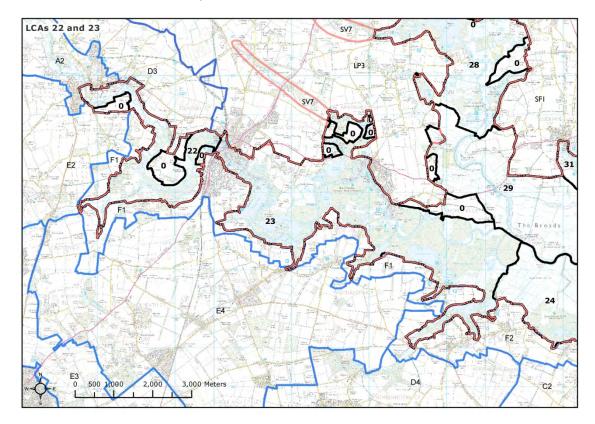
LCA 22: Bure Valley – Upstream Wroxham to Horstead: Area 23: Bure Valley – Wroxham to Fleet Dyke, South Walsham

Location and landscape character context



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Landscape Sensitivity Assessment for Wind Turbines

Criteria	Lower sensitivi		\longleftrightarrow	Higher sen	sitivity
1.Scenic and special qualities	Special qualities of the Broads represented within these areas include the sense of tranquillity and wildness evident in much of the Bure Valley and these would be sensitive to noise and movement introduced by turbines. The 'local character of beautiful churches and quiet villages' is particularly represented in the settlements in these areas, e.g. vernacular settlements such as Wroxham, Hoveton, Horstead, Belaugh,Horning and Coltishall. This local character would be highly sensitive in view of the small scale, traditional riverside settlement pattern.				
2.Enclosure and scale	Both areas are de landscapes of inti of carr woodland containment. Out parts, thus enhan sensitive to turbin and often define scale and there a Marshes and the addition, the press sailing boats in bo sensitivity to wind enclosure and con	mate scale. in the valley side the Exe neing the sen nes, as such landscape sc re areas of n open riversic sence of the oth areas pro-	Valley sides are of floor which provi cutive Area, the l se of enclosure. T topographic featur ale. However bor hore open fen at le green and graz church at Ranwor ovide human scale verall, due to the	often masked by des physical an andform rises t This landscape v ures are visually th areas exhibit Ranworth on th ting marshes at th and the seas e indicators incu area's conside	y the density d visual o 15m in would be y important variations in e Hoveton Coltishall. In sonal use of reasing rable sense of
3.Landscape and land cover pattern	The character are and sinuous reed and texture would presence of huma settlement in bot diversity of water from large Edwar parkland at Wood chalets to later ar at Crabbetts Mars landscape may al the area and thus	fringed river d be sensitive an scale indic h areas, which side settlem dian villas at lbastwick, ar nd modern d sh. Developm so increase t	As such, this di e to wind turbine ators such as sm ch is particularly of ent adds to the v Wroxham, minor d original Boultor evelopment, part nent of wind turbit the potential to in	versity of lands s. This is reinfo all scale riversi diverse in area ariety of pattern r country house n and Paul timb icularly the wat ines within such	cape elements orced by the de vernacular 23. This n and texture, and texture, es and per and reed erside chalets n a complex
4.Skylines	Skylines defined by wooded ridges are largely undeveloped in both character areas, with the exception of localised areas of vernacular settlement and boatyards at Hoveton and Wroxham. Ranworth church tower is a particularly prominent feature on the skyline in the immediate area and is visible from within both character areas and from the surrounding countryside. The wooded skyline which forms a backdrop to reed fringed rivers, areas of open water, marsh and fen is distinctive to both areas, and together with the mainly undeveloped nature of the horizon, would be sensitive to wind turbine development. This is due to the potential for turbines and other related infrastructure such as pylons to detract from such skyline features and as such skylines are considered to have a high sensitivity to wind turbines. This is however reduced by development associated with Hoveton and Wroxham and the overall sensitivity is therefore judged to be moderate-high.				
5.Perception and experience of the landscape	A strong sense of areas once away these settlements disturbance, indic	tranquillity from the set it is essenti	and remoteness e tlements of Hove ally a tranquil rur	exists within bo ton and Wroxha ral character wi	am. Outside of th little human

6.Historic landscape character	have a lightly settled charact quality (other than by boat a of modern settlement at Hov dilute this sense of tranquillit sensitivity to wind turbine de Both areas display character types within both areas are r freshwater fen and small bro Coltishall) and the vernacula Conservation Area) are sensi sensitivity is due to the poter features and the way they ar sensitivity to wind turbine de	nd from v eton and y. Overa velopment stics of h egenerat ads. Area r of the a tive to w ntial to af re perceiv	within settlements). The la Wroxham and associated II the areas have a moderant in perceptual terms. istoric significance. The pr ed carr woodland interspen as of 17 th century grazing r rea's settlement (particula ind turbine development. T fect the coherence of such red. Overall the areas hav	arger areas boatyards ate-high incipal HLC rsed with marsh (at rly Horning This higher historic
7.Visual sensitivities and intervisibility with areas outside the Broads	The areas are defined by landscapes of intimate spatial scale and of contained visual character, although there is intervisibility with adjacent areas in Broadland District (D3: Coltishall Tributary Farmland, E2: Marsham and Hainford Wooded Estatelands and E4: Rackheath, Salhouse Wooded Estatelands and F1: Wroxham to Ranworth Marshes Fringe) and North Norfolk's LP3: Worstead, Coltishall, Hoveton and Smallburgh Area. These open areas of fen and undulating farmland provide views into adjacent character areas and this would increase sensitivity to turbines in visual terms. The character areas themselves however have a predominantly enclosed character with a degree of containment and so have an overall moderate–high sensitivity to wind turbine development.			
Discussion on landscape sensitivity	Character areas 22 and 23 have a high sensitivity to wind turbine development in general. This is due to the representation of special qualities in the areas which would be sensitive to development, such as the sense of tranquillity and wildness. Also, the landscape pattern and scale, historic character and integrity, the sense of remoteness and the presence of human scale indicators associated with traditional riverside vernacular are sensitive to wind turbine development. This judgement also applies to large infrastructure for off shore wind farm schemes, such as pylons.			
Sensitivity to different turbine heights	Land within the character Small (0-20m) Medium (20-50m) Large (50-70m)	areas M-H H H	Land outside the Exect Small (0-20m) Medium (20-50m) Large (50-70m)	utive Area M-H M-H H
	Very large (70m+)	н	Very large (70m+)	н

	Commentary:				
	The majority of the larger turbine typologies would interfere with the intimate scale and the undeveloped skylines of these character areas. Subject to careful siting in relation to the above characteristics, small scal wind turbines (below 20m) would have less effect on sensitive characteristics (i.e. skylines, landscape scale and pattern). Sensitivity to small scale turbines is however only marginally lower than those of a large scale. Turbines beyond this height range would introduce elements out of scale with the landscape, hence the higher sensitivity rating.				
	Landscapes outside the Executive Area				
	Relevant character areas and sensitivities are:				
	 Broadland District - D3: Coltishall Tributary Farmland: Wide expansive views and uninterrupted skyline although views into the Broads are filtered due to tree cover. E2: Marsham and Hainford Wooded Estatelands: Close to the edges small-scale woodlands and copses reflects its proximity to the Broads. E4: Rackheath, Salhouse Wooded Estatelands: Characteristic northerly views over descending wooded slopes to the Broads, and associated wooded horizon. F1: Wroxham to Ranworth Marshes Fringe: Forms a fringe to the lower-lying flat landscapes of the Broads and has a strong association with the area. North Norfolk - LP3: Worstead, Coltishall, Hoveton and Smallburgh: Closely adjoining and infiltrated by the Broads and contributing to their setting. The adjacent character areas have intervisibility with the Broads and display a strong association with the area. It is noted however, that there is a high degree of foiling created by carr woodland on rising valley slopes on both sides of the Bure. Turbines at the smallest end of the range (below 20 metres to tip height) would have less effect on landscape character and perceptual aspects within the Broads, due to closer relationship to existing landscape scale elements. Fieldwork confirmed that turbines of a larger scale, located in such close proximity to the Broads would appear dominant, 				
	resulting in a high landscape sensitivity. Land within the character areas Land outside the Executive Area				
Commentary on different cluster sizes	Single turbine	M-H	Single turbine	M-H	
	<5 turbines	н	<5 turbines	M-H	
Single turbine Small clusters (<5 turbines) Medium (6-10) Large (11-25) Very large (>26)	6-10 turbines	н	6-10 turbines	н	
	11-25 turbines	н	11-25 turbines	н	
	>26 turbines	н	>26 turbines	н	
	Commentary: Large clusters of turbines would have considerably greater likelihood of introducing visual clutter in relation to the undeveloped skylines which define the majority of this grouping of character areas. Accordingly these clusters have been assigned the highest landscape sensitivity rating. This landscape has a slightly lower sensitivity to single turbines in these terms. However this would depend on a careful, well considered visual relationshi				

to other skyline elements including historic taller structures such as Ranworth church tower, in addition to siting in relation to the historic settlements.
<i>Landscapes outside the Executive Area</i> Relevant character areas and sensitivities are:
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North Norfolk - LP3: Worstead, Coltishall, Hoveton and Smallburgh: Closely adjoining and infiltrated by the Broads and contributing to their setting.
Fieldwork confirmed that due to the degree of intervisibility, the landscape sensitivity is similar for the valley sides which lie adjacent to the Executive Area boundary. These landscapes would have a slightly lower sensitivity to single turbines or small groups of less than five turbines, although this is dependent upon the relationship with existing skyline elements which define skylines e.g. avoid according undue prominence in relation to these, particularly when viewed from within the Executive Area. Multiple turbine clusters have the potential to be dominant in relation to skyline character and intervisibility, resulting in a higher landscape sensitivity.