SOUTH EAST LINCOLNSHIRE ANNUAL MONITORING REPORT 2014/15

NATURAL AND BUILT ENVIRONMENT - FACT SHEET 3



Introduction

- The National Planning Policy Framework states that the planning system should contribute to and enhance the natural and local environment as well as ensure the conservation and enjoyment of the historic environment.
- This fact sheet examines the progress on environmental and recreational schemes/facilities and assesses how effective the Boston Borough Local Plan (1999) and South Holland Local Plan (2006) are in protecting the natural and built environment.

What has been achieved?

Biodiversity: We value biodiversity because of the ecosystem services it provides, such as flood defence and clean water; and the contribution that it makes to well-being and sense of place. The protection and enhancement of biodiversity in South East Lincolnshire is therefore imperative.

European or International Designations: The Wash - which has Ramsar, Special Protection Area (SPA), and Special Area of Conservation (SAC) designation - adjoins the areas of Boston Borough Council and South Holland District Council. Ramsar's, SPA's and SAC's are designated under the Ramsar Convention of Wetlands of International Importance, EU Birds Directive 79/409/EEC and EU Habitats Directive 92/43/EEC respectively.

National Designations:

- The Wash is also protected as a Site of Special Scientific Interest (SSSI) and National Nature Reserve (NNR). Cowbit Wash and Surfleet Lows SSSI's are also located in South East Lincolnshire. SSSI's are protected under the Wildlife and Countryside Act 1981 and their condition is monitored by Natural England. The Wash SSSI is currently deemed to be 67.98% favourable, 31.61% unfavourable recovering and 0.41% unfavourable declining. However, both Cowbit Wash and Surfleet Lows SSSI's are considered to be in favourable condition.
- There are three Local Nature Reserves in the area The Vernatts, Havenside Country Park and The Shrubberies (LNRs are designated under Section 21 of the *National Parks and Access to Countryside Act* 1949 by the relevant local authority).
- Frampton Marsh and Freiston Shore are Royal Society for the Protection of Birds (RSPB) reserves.

Non-Statutory sites: There are a number of Local Wildlife Sites (LWS) that have been designated by the two authorities (coordinated by the Greater Lincolnshire Nature Partnership). At present, South East Lincolnshire has 81 Local Wildlife Sites, 69 (85%) of which are considered to be in positive management.

Heritage Assets: South East Lincolnshire retains a rich and irreplaceable heritage from the generations of people who have made the area their home. In 2014/15, the area contained the following designated historic assets:

- 2 Registered Parks and Gardens
- 24 Conservation Areas
- 43 Scheduled Ancient Monuments
- 1,021 Listed Buildings (45 Grade I, 60 Grade II* and 916 Grade II)

There are many pressures on the historic environment, in both urban and rural areas, particularly from development. As a consequence of these pressures, the area's assets are not all in an acceptable condition. The table below identifies the number and percentage of historic assets on Historic England's *Heritage at Risk Register* 2015. A notable point is that the percentage of conservation areas, scheduled monuments and Grade I and II* listed buildings 'at risk' in South East Lincolnshire is above the national average. However, the percentage of registered parks and gardens 'at risk' is below the national average.

	Boston Borough	South Holland District	England
Registered Parks and Gardens (Number and %)	0	0	94 (5.8%)
Conservation Areas (Number and %)	2 (18%)	2 (15%)	505 (6.1%)
Scheduled Ancient Monuments (Number and %)	2 (14%)	4 (14%)	2,700 (13.6%)
Grade I and II* Listed Buildings (including places of worship at risk) (Number and %)	6 (13%)	7 (12%)	1,100 (3.5%)

Source: Historic England

Open Space and Outdoor Recreation: Recreational facilities, including outdoor play space, informal open space and supporting recreation facilities, e.g. club houses and changing rooms, are not only important to local communities for their recreational amenity but also for their impact on the quality of the environment. In high density new housing developments where gardens are smaller, open space and recreation facilities are particularly important. Both Councils therefore require developers to either contribute towards providing new open space within their development or – mostly in the case of smaller sites - to pay a financial contribution to be used to enhance the quantity and/or quality of open space in the locality.

Public Open Space Sites in South East Lincolnshire

Туре	Number of Sites	Comment
Parks and gardens	6	
Natural and semi natural	40	This includes recently planted woodland.
greenspace		
Amenity greenspace	443	Much of this is small grassed areas on
		housing developments
Provision for children	131	These are equipped play grounds
and young People		

Outdoor sports facilities	164	This includes school grounds that are not
		open to the public.
Allotments	18	
Cemeteries and	78	
Churchyards		
Civic Space	1	
Green Corridors		536 Km of Public Rights of Way ¹
Total	880	

Source: Boston Borough Council

Climate Change Mitigation: To meet the challenges of climate change, both Councils are committed to ensuring new developments seek ways to reduce CO₂ emissions and increase the use and supply of renewable energy.

The most recent figures (for 2013) show that Boston Borough's total CO_2 emissions were 8.3 tonnes per capita whilst South Holland's stood at 7.6. This was broadly similar to the emissions for other districts in Lincolnshire. The table below shows that both areas recorded a fall in emissions between 2005 and 2009 before fluctuating through to 2013.

South East Lincolnshire CO₂ Emissions 2005-2013

	Industry and Commercial	Domestic	Transport	Total	Population ('000s, mid- year estimate)	Per Capita Emissions (t)
BBC 2005	188	157	140	485	58.6	8.3
BBC 2006	186	158	141	485	59.8	8.2
BBC 2007	182	155	139	476	61	7.8
BBC 2008	182	154	133	471	62.2	7.6
BBC 2009	167	140	128	435	63.4	6.9
BBC 2010	174	151	128	453	64.5	7.1
BBC 2011	150	132	127	409	64.6	6.4
BBC 2012	165	140	125	430	64.8	6.7
BBC 2013	157	136	124	417	65.9	6.4
SHDC 2005	288	234	215	737	81.7	9.1
SHDC 2006	278	229	219	726	83.2	8.9
SHDC 2007	274	226	222	722	84.5	8.7
SHDC 2008	283	224	211	718	86.0	8.5
SHDC 2009	254	204	204	662	87.0	7.8
SHDC 2010	259	220	207	686	87.9	8.0
SHDC 2011	235	192	203	630	88.4	7.3
SHDC 2012	276	204	198	678	88.5	7.8
SHDC 2013	268	196	200	664	89.2	7.6

Source: Department of Energy and Climate Change

¹ Data from Lincolnshire County Council during the SA Scoping consultation exercise

The following table identifies the amount of renewable energy developments/installations that are existing, proposed with planning permission and proposed without planning permission in the South East Lincolnshire area. It provides details on the potential capacity (MW), homes supplied and electricity generated (GWh)

Existing and Projected Renewable Energy Development

tisting and Projected Renewable Energy Development						
Place	Capacity	Number of	CO2 Tonnes	Annual		
	MW	homes supplied	saved	electricity		
				generated		
				GWh		
i		Existing				
Bicker wind farm	26.0	14,592	37,466	61.7		
Deeping St Nicholas						
wind farm ⁱⁱ	16.0	8,980	23,056	37.9		
Gedney wind farm iii	12.0	6,735	17,292	28.5		
Tydd St Mary wind farm ^{iv}	14.0	10,000	Unknown	33.1 ^v		
Boston Landfill Scheme	1.3					
Staples anaerobic						
digester ^{vi}	3.0	N/A	Unknown	23.7		
Long Sutton PV ^{vii}	2.75	602 ^{viii}	1,028 ^{ix}	2.38 ^x		
Fen Road ^{xi}	1.5	300	559	1.3		
Leverton Ings ^{xii}	12.0	3,500	5,800	10.4		
Nowhere Farm (under						
construction) ^{xiii}	10.0	1,600	3,732	8.68		
Grange Farm (under						
construction) ^{xiv}	10.0	1,600	3,732	8.68		
Installed PV under FIT ^{xv}	8.45	1,237	2,098	4.89		
Installed wind under FIT ^{xv}	0.22	137	Unknown	0.52 ^{xvi}		
Installed Micro CHP ^{xv}	0.001	Unknown	Unknown	Unknown		
SUB TOTAL	117.22	49,283	94,763	221.75		
Proposed with Planning Permission						
Boston gasification plant						
xvii .	10.5	10,500	Unknown	88.2 ^{xviii}		
Decoy Farm (AD) ^{xix}	1.8	Unknown	Unknown	Unknown		
Friths Solar ^{xx}	28.0	6,000	1,045	24.3		
Fendyke Solar Farm ^{xxi}	17.6	3,410	9,858	16.7		
Decoy Farm (Solar) ^{xxii}	13.8	3,100	7,590	12.0		
Long Sutton PVxxiii	0.79	175	298	0.69		
SUB TOTAL	72.49	23,185	18,791	141.89		
Domestic PV	133.7	29,337	43,430	116.0		
Proposed without planning permission						
Sutton Bridge renewable						
energy park ^{xxiv}	48.0	55,000	140,000	403.2 ^{xxv}		
Holbeach Marsh						
windfarm ^{xxvi}	16.0	7,500	21,024	37.8		
Delph Wind Farm ^{xxvii}	18.0	8,940	mid point 24,000	41.9v		
SUB TOTAL	82.0	71,440	185,024	482.9		
Total	405.41	173,245	342,008	962.54		

Source: See Endnotes

Flood Risk: The Lincolnshire Coastal Study (2010) cautioned against allowing major housing development in the area's Red, Orange and Yellow (ROY) flood hazard zones. The following table provides a description of the five flood-hazard zones used in the Lincolnshire Coastal Study.

Flood hazard classification

Degree of coastal	Hazard	Colour on	Description of hazard
flood hazard	Rating	mapping	
None	Little or no	White	Little or no hazard (from coastal
	hazard		flooding)
Low	Low hazard	Green	Caution, low risk to people
Moderate	Danger to	Yellow	Risk to the vulnerable, such as
	some		children, the elderly and the infirm
Significant	Danger for	Orange	Risk to most, including the general
	most		public
Extreme	Danger for	Red	Extreme hazard, danger to all,
	all		including the emergency services

Source: Defra and Environment Agency, 2008

In 2014/15, there were multiple planning applications for the development of residential properties granted permission within South East Lincolnshire's ROY flood hazard zones. The table below identifies the number of housing permissions and completions across South East Lincolnshire in all the different zones for 2014/15.

	Permissions BBC	Permissions SHDC	Total	Completions BBC	Completions SHDC	Total
White	16	305	321	1	234	235
Green	2	1	3	5	2	7
Yellow	150	2	152	4	4	8
Orange	602	50	652	28	3	31
Red	179	4	183	82	12	94
Total	949	362	1,311	120	255	375

Flood hazard mapping undertaken as part of the Lincolnshire Coastal Study (2010) revealed that very little of Boston Borough, especially Boston town itself and its immediate environs, is free from designation as either a red, orange or yellow flood hazard zone. In the case of South Holland, over half of the district is free from these three designations. It is therefore unsurprising that the majority of permissions and completions within ROY zones in the area in 2014/15 were in Boston Borough.

The table below shows the number of new planning permissions that were granted contrary to Environment Agency advice during 2014/15.

Number of planning permissions granted contrary to Environment Agency Advice

	Flooding	Water Quality	Total
Boston Borough	0	0	0
South Holland	6	0	6
District			

Source: Environment Agency

Permission was granted for 6 developments in South Holland District contrary to Environment Agency advice whilst none were granted in Boston Borough.

https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/65999/7357-subnat-elec-cons-stats-2011factsheet.pdf accessed 300415

<u>0267/NowhereFarmPV ArrayNr BostonPlanningAccessStatementFINAL.pdf</u> accessed 300415

accessed 300415

- xxv Calculated 48 x 24 x 350 to allow for some down time each year.
- http://www.holbeachmarshwindfarm.com/about.asp accessed 300415
- xxvii http://www.sholland.gov.uk/PublishedRecords/PBC/DC/APP/6/H14-0110-13-H14-0110-13_V914000815022013_6EIA.pdf

accessed 300415

http://www.windprospect.com/wf_project?wf=19&p=services&c=engineering_current&pa=e_accessed 300415

http://www.windprospect.com/wf_project?wf=23&p=services&c=engineering_current&pa=e_accessed 300415

http://www.windprospect.com/wf_project?wf=56&p=services&c=engineering_current&pa=e_accessed 300415

http://www.the-grange-wind-farm.co.uk/news.aspx accessed 300415

^v Calculated 14 x 24 x 365 x 27 % / 1000 as the Bicker, Deeping and Gedney stations appear 27% efficient.

vi Staples agent advised on 120612 that plant capacity is just under 3MW and produces 23,652 MWh/year of electricity and a similar amount of heat.

vii http://www.sholland.gov.uk/doitonline/plandev/details.aspx?oref=h11-0206-11 &

http://www.sholland.gov.uk/doitonline/plandev/details.aspx?oref=h11-0817-10 accessed 300415 viii Annual generation in KWh /3954KWh/yr for East Midlands Table 2 page 10 from

ix Annual generation in KWh x 0.43 kg / KWh from http://www.plugintothesun.co.uk/faq/#carbon-dioxide accessed 300415

^{*} http://www.energygrants.co.uk/solar_power/solar-pv-feed-in-tariff-calculator.html#anchor select region 3 and input figure as kw accessed 300415

http://www.boston.gov.uk/index.aspx?articleid=6208&ApplicationNumber=B/13/0345 accessed 300415

http://www.boston.gov.uk/PlanningDocs/BBC/B-13-0306/Design_and_Access.pdf_accessed 300415

http://www.boston.gov.uk/PlanningDocs/BBC/B-14-

xiv http://www.sholland.gov.uk/PublishedRecords/PBC/DC/APP/6/H20-0937-13-H20-0937-13_V1116200204112013_6DNA.pdf accessed 300415. Owing to no homes, carbon dioxide and annual generation data, are using the Nowhere Farm data as an estimate, because they are same capacity

w https://www.gov.uk/government/statistical-data-sets/sub-regional-feed-in-tariffs-confirmed-on-the-cfr-statistics accessed 300415

 x^{xy} Calculated 0.22 x 24 x 365 x 27 % / 1000 as the Bicker, Deeping and Gedney stations appear 27% efficient.

http://www.boston.gov.uk/index.aspx?articleid=3567 B/09/0477 accessed 300415

xviii Calculated 10.5 x 24 x 350 (Operating days)

xix http://www.sholland.gov.uk/PublishedRecords/PBC/DC/APP/6/81cb6d70-18d5-11e0-a02b-005056960035.pdf accessed 300415

^{**} http://www.boston.gov.uk/PlanningDocs/BBC/B-14-0287/FrithsFarmPVArrayNrBostonPlanningDesignAccessStatement.pdf accessed 300415

http://www.sholland.gov.uk/PublishedRecords/PBC/DC/APP/6/H20-0764-14-Design%20and%20Access%20Statement%20-%20REV%201.pdf accessed 300415

xxiii http://www.sholland.gov.uk/PublishedRecords/PBC/DC/APP/6/H02-0147-14-H02-0147-14-V415200420022014-6DNA.pdf accessed 300415. Note the CO2 saving has been divided by 25years for an annual figure.

http://www.sholland.gov.uk/doitonline/plandev/details.aspx?oref=h11-0126-11 accessed 300415

http://www.sholland.gov.uk/PublishedRecords/PBC/DC/APP/6/H18-0723-12-H18-0723-12 V1810300007092012 6SUP.pdf