From:

Peter Batten & Denise Lloyd

Sent:

13 January 2015 10:51

To:

David Cowie; devplans

Subject:

Onshore wind energy: supplementary guidance

Attachments:

ClimateXChange survey 2.pdf

Re

www.highland.gov.uk/info/178/local and statutory development plans/147/onshore wind energy supplementary guidance.

The above consultation was drawn to my attention over the weekend, and I understand you are now taking late responses from some interested parties. My thoughts follow.

Is there a mailing list for further THC consultations in response to SPP 2014 please; if so, can I ask to be added to it? Thank you.

Q1. What do you consider to be the minimum scale of onshore wind development that our spatial framework should apply to?

The spatial framework should extend down to single turbines above a suitable minimum size. It seems inconsistent that multiturbine installations SE of Ben Wyvis are considered unacceptable, but that several single turbines of the size of the one at Yellow Wells, affecting similar sightlines, may be considered acceptable.

Q2. Apart from the matters identified in Table 1 of SPP, what other considerations do you think we should take into account when identifying where there is strategic capacity for wind farms and areas with the greatest potential for wind development? And what information is available to help us consider those issues?

SNH have previously objected at sites visible from National Scenic Areas and backdropped by Special Landscape Areas. Their thinking seems to have some merit, and remains relevant at case level under SPP para 169 bullet 6. SNH's opinion on how this might be reflected in strategic capacity terms would be valuable. See also Q5 comments re isolated coast.

- Q3. What criteria do you think we should consider in deciding all applications for wind farms of different scales, including extensions and re-powering? And what information is available to help us set those criteria?

  I attach the second survey (Nov/Dec 2014) of ClimateXChange's review of the carbon calculator (SPP para 169 bullet 8 refers). See esp. questions 9-18, 22, 29. Hopefully THC has contributed to this review; if not, further info is available from Professor <a href="mailto:susan.waldron@glasgow.ac.uk">susan.waldron@glasgow.ac.uk</a>. If the outcome includes a more formal carbon balance analysis for wind farms below 50 MW, THC should develop (in consultation with the Scottish Govt) criteria for acceptable "expected" and "maximum" carbon payback periods.
- Q4. Do you think that defining clusters of wind energy developments and important gaps between them is useful to help guide where further development may be most appropriate?

  Some degree of clustering appears to be an inevitable consequence of the constraints in SPP 2014.
- Q5. Given that national policy does not allow us to include the results of the Cumulative Landscape and Visual Assessment of Wind Energy in Caithness (the CLVA) in the spatial framework, in what ways do you think we should take it into account in in our plans and guidance?

It is unfortunate that confirmation of Wild Land Area 39 came late before publication of the CLVA, and that its previous existence as a proposed CAWL was apparently not taken into account by LUC. However the inclusion of isolated coast in the CLVA rectifies a limitation of SNH's wild land mapping, and remains relevant at case level under SPP para 169 bullet 6. Although CLVA Table 5.3 has some relevance beyond Caithness, it is difficult to see how Highland-wide policies and plans can reflect a study specific to Caithness, whose topography differs from that of most of Highland. What happened to the Ardross study?

Q6. If you have any general comments about the CLVA, please give them here.
It is difficult to comment further on the CLVA at such short notice. Furthermore I can only find the CLVA text online - have the figures been published?

I hope the above will be of some help.

Kind regards Peter Batten



## Introduction

1/6

The Scottish Government has made a commitment that by 2020, the equivalent of 100% of Scotland's electricity consumption will be generated by renewable sources. A clear aspiration within this commitment is that renewable energy developments will assist to reduce Scotland's carbon emissions. In order to better understand the overall carbon saving benefits of such developments, it is important to consider the carbon emissions generated during their construction.

Many areas considered appropriate for the development of renewable energy projects in Scotland are situated on high carbon organic soils such as peat. These soils have the ability to store large quantities of Greenhouse Gases (GHG), which can be released during the development of renewable energy projects. These emissions are an important factor in assessing the lifecycle emissions of a renewable energy development.

Since 2011, applications for the development of wind farms of 50MW or greater on peatland sites have been expected to use the Scottish Government's Peatland Carbon Calculator as part of their environmental impact assessment. This tool provides a life cycle assessment of the GHG emissions and carbon payback from wind farm developments. The information provided by the calculator helps Ministers and Planning Authorities to determine if a planned wind farm should be developed.

<u>ClimateXChange</u>, on behalf of SEPA and the Scottish Government, has commissioned a consortium of researchers to review the use of the existing C calculator and gather stakeholder opinion on the potential for wider assessment of net carbon emissions.

The first survey (active during July 2014) has reviewed the current use of the C calculator. This second survey explores more broadly the application of a carbon assessment tool to other developments which are likely to have carbon impacts, including the potential for extending the existing C calculator to wind farm developments smaller than the existing 50 MW threshold.

The information collected will be held by the University of Glasgow, until the final report on this project is completed and then submitted to <u>ClimateXChange</u>. All data is anonymous unless you have chosen to identify yourself - this is a selective option and helpful to us to facilitate follow-up interviews about important points you may raise.

Please pass this survey link to additional parties to whom it may be relevant. However if you are responding on behalf of an organisation, please liaise with your colleagues to submit only one

representative unit organisational survey response only. We thank you for the time you spend completing this survey. The survey will close on 12th December 2014.

If you have further questions about this survey, please contact Prof. Susan Waldron on 0141-330-2413 or Susan.Waldron@glasgow.ac.uk

University of Glasgow Carbon Landscapes and Drainage (Knowledge Exchange Network – www.clad.ac.uk)
University of Aberdeen
James Hutton Institute

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Section 1: Understanding whether and why you use a carbon assessment tool:

	2/6	33%
	is section is to generate for us an understanding esessment tools:	of the relationship of the respondents with (
	Please identify the <b>main</b> capacity in which yo sement tool:	u use or would intend to use a C
0	Local authority planner	
0	Planning or environmental consultant who acts on behalf	of developers
0	Developer	
0	Technical specialist based in a central government body	involved in validating the calculator
O	Technical Specialist based elsewhere and involved in va ow entitled other)	lidating the calculator (please specify in the box
O	Policy specialist based within government or a government	nt body
0	Consultee in the planning process	
O	Third sector organisations considering how an effective (e.g., climate change targets)	assessment tool can meet a range of policy
0	Other (please specify)	
2. F	Please identify how you use a C assessment t	ool:
0	l use a C assessment tool personally	
0	I contract others to use it for me	
0	Both	
0	I use the validated results of a C assessment tool to infor	m a consent decision
0	I am aware of C assessment tools but have not yet used	one
0	I use the validated results of a C assessment tool to infor	m my view as a consultee in the planning process
0	I was not previously aware that C assessment tools exist	ed
	f you have used or are familiar with a C asses ow (tick all that apply):	sment tool, please identify which one
	The C calculator for > 50 MW wind farms on peatland	
	The SPACE tool	
	Another (please name others in this category below)	

 Please specify if your operations concern countries other than Scotland (no need to complete if you work only in Scotland).

Prev Next

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Section 2: Meeting Scottish Government policy goals through carbon assessment of d

3/6	50%
experience of beyond Scottish Government Scottish Planning Policy (Scottish Government are present, applicants should assess the like	sh Government policy goals. However, if you have policy please use question 7 to share this with us. ent, 2014) states that where peat and carbon-rich soils kely effects of development on carbon dioxide emission ations for energy infrastructure are likely to include in calculator (paragraph 169).
Climate Change (Scotland) Act 2009, and to he use of carbon assessments may need to	ducing emissions in line with targets set under the meet associated national planning policy aspirations, be extended. Please comment on whether you ent tool to developments other than > 50 MW wind commitments to achieve the following:
<ol> <li>Meeting a target of a net Scottish green east 80 % lower than the defined baseling</li> </ol>	nhouse gas emissions account for 2050 of at e.
O Yes	
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Please explain your answer	
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Section 3: Exploring the development activities to which a C assessments could be extended.

4/6	67%
Here we would like to explore how a C assessment policy goals (identified in section 2) through practical	
Carbon Assessment tools - A variety of tools have One example is the Carbon Payback Calculator (*C 'to assess, in a comprehensive and consistent way, farm developments' (Scottish Government, 2011). T decision-making process for wind farm proposals ov section 36 of the Electricity Act 1989, and located or tool can be found here.	calculator"), designed for Scottish Government the carbon (GHG emissions) impact of wind his tool was originally developed to inform the er 50 MW in scale requiring consent under
A second example of a C assessment tool is the Sp. (SPACE) tool. This estimates greenhouse gas emissions.	sions for different development scenarios and
enables planners make informed decisions about the alternative planning policies. Further information on	
Development management process - Existing reg process require that an Environmental Impact Assesmay have significant environmental effects. Further	this tool can be found here.  ulations within the development management is sment be prepared for any development that information on the process can be found in the
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Positive outcomes

Negative	
outcomes	
11. Sce	nario 3: All developments proposed on peat or carbon-rich soils that require
planning	consent through a local planning authority.
Positive	
outcomes	
Negative	
outcomes	
12. Sce	nario 4: Planning authorities are given the discretion to request that a carbon
	nent be applied to any development.
Positive	The state of the s
outcomes	
Negative	
outcomes	
13 500	nario 5: Carbon assessment (for example using the C calculator) be extended to
	NLY to onshore wind farms located on peat or carbon-rich soils which are below
AND DESCRIPTION OF	W generating capacity threshold for consent under the Electricity Act.
Positive	Solicitum's cupulity united to a consent united the Electricity rice
outcomes	
Negative outcomes	
odicomico	
	ly one of the scenarios identified above were to be selected for carbon
assessn	nent, which would be your preferred option and why?
15. Pleas	se tell us if you would want additional development scenarios, not identified
above, fo	or which carbon assessment could or should apply. Please explain why you have
selected	that scenario.
	·
16 Aret	here criteria you consider should apply in deciding whether a proposal might
	or a carbon assessment? Please explain.
quality it	or a sarbon assessment: Frease explain.
	9

17. Having considered each of these scenarios, and the challenges and opportunities that they present, do you think there are any arguments in favour of <u>no change</u> to the current position – i.e. carbon assessment, through the C Calculator, applies <u>only</u> to onshore wind

	Prev	Next	
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be applied to



Survey 2: Carbon assessments for development activity.

	5/6	83%
assessment. This Considering each submissions that assessment, were If uncertain of you applications you	question will complement addition of the scenarios above - please of you envisage might be associate it to be mandatory. If no application future workload, you could base	d with generating / assessing a carbon
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through a		
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Planning		
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given the		
discretion to		
request that a		
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development	
Carbon	
assessment	
(for example	
using the C	
calculator) be extended to	
apply <u>only</u> to on shore wind	
farms located	
on peat or	
carbon-rich	
soils which	
are below the	
50 MW	
generating	
capacity	
threshold for	
consent under	
the Electricity	
Act	
19. Does your answer to Q18 reflect backcasting?	
O Yes	
O No	
20. Does you answer to Q18 reflect forecasting?	
20. Does you answer to Q18 reflect forecasting?  O Yes	
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Training on the C calculator will be required	0	0	O
Regular support & continuing training to	0	0	0
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share best practice & ensure consistency A robust mechanism for communicating updates to the calculator Additional technical expertise should be available to provide support during the	C) Prev	O	0



Section 4: Understandin	a improvements /	addition to the	current C-calculator.
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6/6	100%
This section focuses on the existing carbon paybor pecifically validation and improvements / augme f you have not used the calculator you may not belease these leave blank.	ntations to the C calculator.
25. Would you be interested in a 'lite' version o apply a simplified approach using the most conservative payback time) □and □should the rull analysis using the user input tool would be consent.	conservative values (i.e. leading to esult indicate an ineffective payback time⊡a
O Yes	
O No	
6. At what stage(s) in the process could a 'lite example⊏project initiation or screening stage'	[2] - [2] - [4] - [2] -

the capacity to input more detailed descriptors? If so please identify these and explain why:

		on a sliding scale the level ale 1-5, where 1 is not diffic	
	Not Difficult (1)	Moderately Difficult (2)	Most Difficult (3)
Average water table depth	0	O	0
Average drainage distance	O	0	0
Bulk density of peat	0	0	0
Restoration water table depth before wind farm construction	0	0	0
Restoration water table depth after wind farm construction	0	0	0
Time for restoration	0	0	0
Average temperature	0	0	0
where they would sit o		om the above list please ider difficulty.	

29. Scottish Planning Policy (SPP) indicates that a local development plan should include a spatial framework for onshore wind developments (SPP, para 161), and identifies 'carbon-rich soils, deep peat and priority peatland habitat' as requiring significant protection. In these areas it is recognised that wind farms may be appropriate in some circumstances, but further consideration will be required to demonstrate that any significant effects on the qualities of these areas can be substantially overcome by siting, design or other mitigation.

)	Yes		
0	No		
)	Comments		
e		farm C payback calculator: tly presented in an excel spreadsheet. Do you the results might be improved to aid interpret	
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Would it be useful to have a capacity in the tool that specifically asked for detail on how

Thank you for your time. These results will be collated and summarise in a report that will be distributed for information in 2015. The results of both surveys will be presented in a stakeholder

workshop and we will be extending open invitations for this circa January 2015. If you have any questions please contact Prof. Susan Waldron

Prev Done

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