

SHADOW FLICKER EFFECT

CONSULTATION QUESTIONNAIRE

All information provided in this questionnaire will be treated as strictly confidential and will not be passed to any third parties. Analysis based on the information provided will be referred to in generic trends, and no site-specific or company-specific details will be published.

The closing date for questionnaire submissions is: FRIDAY 10th DECEMBER 2010

Please complete any sections of this questionnaire that are relevant to your area of expertise or experience.





CONTACT DETAILS

Authority Name	
Name	
Position / Job Title	
Email Address	
Telephone Number	
Postal Address	





PRE-PLANNING ADVICE

Q1: Does your department / authority offer pre-planning advice to developers of onshore wind energy developments?





Q2: If 'Yes', does the pre-planning advice include reference to shadow flicker effect?





Q3: If 'Yes', does the pre-planning advice offer guidance on how a developer should assess the shadow flicker effect?





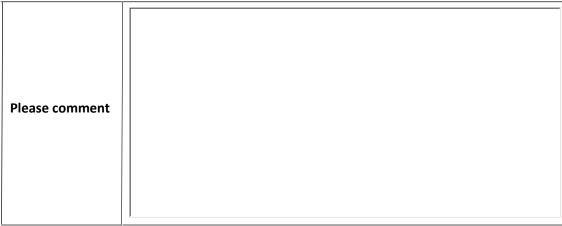




CURRENT GUIDANCE

Link to: 'Practice Guidance: Planning Implications of Renewable and Low Carbon Energy' shadow flicker text

'10 x Rotor Diameter' rule-of-thumb		
Some governments have issued guidance suggesting that shadow flicker effect occurs only within 10 rotor diameters from the turbine position, and the impact is not considered significant beyond this distance.		
Q4: Do you consider the '10 x Rotor Diameter' rule an appropriate assessment area for shadow flicker reports?		
Yes		
Q5: Would an alternative calculation method for the assessment area be preferable to the '10 x Rotor Diameter' rule? Please select		
Other		
Shadow Flicker Effect outside properties		
Some governmens have issued guidance suggesting that shadow flicker effect occurs only within buildings where the flicker appears through a narrow window opening.		
Q6: Should shadow flicker assessments be limited to the interior of residential buildings?		
Yes No		
Q7: If 'No', should the following receptors be included in shadow flicker assessments?		
Please tick Road users Footpath users Bridleway users Non-residential properties (eg. offices, warehouses, etc) Other receptors - please specify in 'Other'		
Other		
Q8: Please elaborate on your reason(s) for including additional receptors in shadow flicker assessments.		
Please elaborate		
Quantitative Guidance		
In recent years, regulations have emerged in other countries proposing a quantitative approach to assessing shadow flicker. This approach sets a limit on the duration that a receptor can be exposed to shadow flicker effects.		
Q9: What is your opinion on the value of adopting quantitative guidance on shadow flicker effect?		
Please comment		
Q10: Please include any other comments relating to amendments / omissions / additions to current guidance below.		









BEST PRACTICE SHADOW FLICKER ASSESSMENTS

'Worst Case Scenario'

The 'Worst Case Scenario' assumes:

- Continuous sunshine during daylight hours;
- Continually rotating turbine blades;
- No vegetation or other obstacles are screening the receptor;
- The wind turbine rotor plane is always perpendicular to the receptor and sun.
- Q11: Should shadow flicker assessments adhere to the 'Worst Case Scenario' detailed above?





Q12: If 'No', please specify how they should differ and your reason for proposing an alternative approach.

Please specify	

Q13: Should field data or site-specific environmental data (eg. meteorological data, screening effects, etc) be included in shadow flicker assessment models?





Q14: If 'Yes', please elaborate below:







PROPOSED MITIGATION MEASURES

Q15: When considering a planning application, what mitigation strategies for predicted shadow flicker effects do you consider appropriate?			
Please tick	 ☐ Careful site design to minimise / eliminate impact ☐ Turbine shut-down strategy ☐ Installation of blinds ☐ Landscaping / vegetation screening ☐ Other - please specify in 'Other' 		
Other			
Q16: Has your department / authority had any involvement in assigning a planning condition relating to shadow flicker to a consent for an onshore wind energy development?			
Q17: If 'Yes', plea below.	se provide as much detail as possible about the planning condition		
Please comment			





OPERATIONAL EXPERIENCE

PLEASE NOTE

As with all information provided in this questionnaire, data collected in the following section will be treated as strictly confidential. Analysis based on the information provided will be referred to in generic trends, and no site-specific or company-specific details will be published.

Q18: Have you received (or are you aware of) any complaints raised in relation to shadow flicker effect at any operational wind energy developments within your planning area?

Yes	No O	
Q19: If 'Yes', please provide: details of the project(s); details of the complaint(s); the circumstances triggering the complaint; and details of how the complaint was resolved (if applicable).		
Please comment		
	ation strategies for shadow flicker effects have been implemented on wind energy developments within your planning area?	
Please tick	Careful site design to minimise / eliminate impact	
Hease tick	☐ Turbine shut-down strategy ☐ Installation of blinds	
	☐ Landscaping / vegetation screening ☐ Other - please specify in 'Other'	
Other		
Q21: How successful have these mitigation strategies been in practice? Please provide as much detail as possible in the text box below.		

Please comment

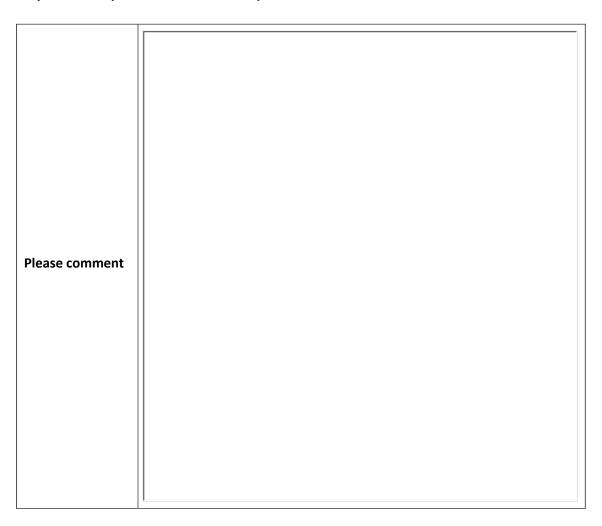




THANK YOU

Thank you for completing this form. Your assistance is greatly appreciated.

If you have any additional comments, please include them in the text box below:



Q22: Would you be happy for a representative to contact you to discuss elements of this questionnaire further?





Q23: What is your preferred method of contact?







SUBMIT FORM

Option 1 - Please submit form by pressing the following button:

SUBMIT

(A blank Outlook message will open automatically)

Option 2 - If 'Submit' button above does not work, please click 'Save As', attach the saved PDF document to an email, and send to DECC@pbworld.com

Option 3 - If 'Save As' method fails, please click 'Print to PDF', attach the saved PDF document to an email, and send to DECC@pbworld.com

Option 4 -If the above options fail, please email us at DECC@pbworld.com, explain the problem and we will resolve the issue as soon as possible.

