Viewpoints:

1. Rob Roy Way near Meall Odhar
2. Ben Chonzie
3. Breadalbane Park, Killin
4. Carstran, minor road overlooking Lochearnhead
5. Comrie
7. Ben Vorlich
8. Ben Lawers
9. Meall na Samhna
10. A827 near Fearnan
11. Meall Ghaordaidh
12. Sron Bealaidh
13. Crieff MacRosty Park
14. A822 near Muthill
15. Ben More
16. Beinn Sheasgarnaich
19. Lochan na Lairige pass
20. Mor Bheinn
21. St Fillans Hill
22. Mealll an t-Seallaidh

Wireline-Only Viewpoints:

C. Core Path STFI/101

D. Caravan Park at Ardrostan

sse Renewables

open optimised environments

PART OF SLR

Key

- Proposed Turbines
- Viewpoint
- Wireline Only Viewpoint
- Site Boundary
- 5km Radii
- 20km Detailed LVIA Study Area
- Loch Lomond and Trossachs National Park

Intensity of Turbine light, shown in Candelas (cd)

Vertical Angle	Turbine Lighting Intensity	
	2000cd Scenario	200cd Scenario
0° to 2°	2200/2500cd	220/250cd
0° to -1°	2200cd to 980cd	220cd to 98cd
-1° to -2°	980cd to 420cd	98cd to 42cd
-2° to -3°	420cd to 220cd	42cd to 22cd
-3° to -4°	220cd to 170cd	22cd to 17cd
Below -4°	<170cd	<17cd

Notes

1. The lighting intensity for each of the vertical angles shown is derived from information provided by the Aviation Consultant for the Proposed Development, which in turn is based on data provided by CEL a manufacturer of aviation warning lights.
2. Reduced intensity turbine lighting (200cd) based on 'Air Navigation Order 2016 (CAP393) Article 223 (8)' which allows the 2000cd turbine light to be 'reduced to not less than 10% of the minimum peak intensity specified ' i.e. 200cd 'if visibility in all directions from every wind turbine generator in a group is more than 5km '.
3. Perception of theoretical candela intensity does not take account of distance .
4. ZTV calculations do not take into account surface features such as forestry or buildings.
5. ZTV calculations for turbine lighting intensity are based on visible aviation lighting mounted on the turbine nacelle.
6. The ZTV calculates the degree of vertical angle from the study area shown to each of the Proposed Development turbines.
7. ZTV calculations represent a worst case situation where predicted lighting intensity may be as a result of only one turbine in the layout.

Scale 1:160,000 @ A3

0 4 8 Km

N

Figure 5.2.3

Hub Lighting Intensity ZTV (reduced aviation lighting scheme)

Glentarken Wind Farm
EIAR 2024