



- Proposed Turbine Location
 - Viewpoint
 - 10km Radius
 - 20km Study Area
 - Proposed Turbine Lighting
1. Garve
 2. Gorstan
 3. Tarvie
 4. Little Wyvis
 5. An Cabar
 6. Glas Leathad Mor (Ben Wyvis)
 7. View Rock
 8. Loch Kinellan
 9. A834, Jamestown
 10. Marybank
 11. Knockfarrel
 12. Peffery Way at Fodderty Cemetery
 13. Tesco Dingwall
 14. Culbokie
 15. A862, west of Inverness
 21. A9, Black Isle
 22. A835/B9169 Crossroads
 23. A835, Contin
 24. A835, south end of Loch Garve
 25. A835, Loch Glascarnoch
 26. A832, Strath Bran
 27. A832, Lochluichart
 28. A832 near Torriegorrie
 29. Sgurr a' Mhuilinn
 30. Beinn a' Bha'ach Ard
 31. An Coileachan
 32. Am Faochagach
 33. Cnoc Fyrish monument

Notes

1. The lighting intensity for each of the vertical angles shown is based on the CEL-WT-MIC aviation warning light. The candela values are provided by Contarnex, the manufacturer of the CEL-WT-MIC aviation warning light, and represent the average values calculated for each angle of light shown.
2. The highest candela value calculated by Contarnex for the CEL-WT-MIC aviation warning light was 2206cd. This occurs at a vertical angle of 0.6° and so may occur in the 0° to 1° range shown on this figure.
3. 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'.
4. Perception of theoretical candela intensity does not take account of distance.
5. ZTV calculations do not take into account surface features such as forestry or buildings.
6. ZTV calculations for turbine lighting intensity are based on visible aviation lighting mounted on the turbine nacelle.
7. The ZTV calculates the degree of vertical angle from the study area shown to each of the Proposed Development turbines.
8. ZTV calculations represent a worst case situation where predicted lighting intensity may be as a result of only one turbine in the layout.

1:150,000 on A3

0 5 10 Kilometres

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Figure 7.9c

Lighting Intensity ZTV

Carn Ferna Wind Farm

Environmental Impact Assessment Report