



# Glenburnie Wind Farm

## AEI Technical Appendix 14.1

### Reduced Lighting Scheme

---

Author	RES
Date	28/01/2025
Ref	04728-9830843

---

This document (the “Report”) has been prepared by Renewable Energy Systems Ltd (“RES”). RES shall not be deemed to make any representation regarding the accuracy, completeness, methodology, reliability or current status of any material contained in this Report, nor does RES assume any liability with respect to any matter or information referred to or contained in the Report, except to the extent specified in (and subject to the terms and conditions of) any contract to which RES is party that relates to the Report (a “Contract”). Any person relying on the Report (a “Recipient”) does so at their own risk, and neither the Recipient nor any person to whom the Recipient provides the Report or any matter or information derived from it shall have any right or claim against RES or any of its affiliated companies in respect thereof, but without prejudice to the terms of any Contract to which the Recipient is party. This Report is confidential and shall only be disclosed to duly authorised Recipients.

**Strategy and Policy Group  
Windfarm Policy**



Sam Johnson  
Senior Aviation Manager  
RES Group  
Beaufort Court, Egg Farm Lane  
Kings Langley  
WD4 8LR

28 January 2025  
Ref Windfarms / Glenburnie

Dear Sam,

**Proposed Obstacle Lighting Scheme for Glenburnie Wind Farm**

Reference: Proposed Glenburnie Wind Farm and obstacle lighting e-mail dated 20 December 2024


1. Thank you for the e-mail at reference, which discusses the proposed Glenburnie Wind Farm approximately 9km north of Lauder in the Scottish Borders. The proposed wind farm consists of 12 turbines with tip heights of 220 m above ground level, which brings them within scope of the Air Navigation Order (ANO) Article 222 obstacle lighting requirements.
2. We recognise the intent to address concerns relating to adverse visual impacts of aviation lighting on non-aviation receptors while ensuring that the lighting installed on the turbines meets air safety requirements.
3. Therefore, under provisions given in the Air Navigation Order (ANO) Article 222 section 6, the CAA provides for the following variation:
  - Medium intensity steady red (2000 candela) lights on the nacelles of turbines T05, T08, T11, T13 and T16;
  - a second 2000 candela light on the nacelles of the above turbines to act as an alternative in case of failure of the main light (note that both lights should not be lit at the same time);
  - the visible lights on these turbines to be capable of being dimmed to 10% of peak intensity when the visibility as measured at the wind farm exceeds 5km.
  - a scheme of infrared lighting to be agreed with the MoD (note that dimming permission is applicable only to visible lights, not infra-red lighting).

**Civil Aviation Authority**

2E Aviation House Beehive Ring Road Crawley West Sussex RH6 0YR [www.caa.co.uk](http://www.caa.co.uk)  
Telephone 0330 138 3166 [andy.wells@caa.co.uk](mailto:andy.wells@caa.co.uk)

4. Intermediate level 32 candela lights are not required to be fitted on the turbine towers.
5. If the proposed design of the wind farm changes (other than variations due to micro-siting etc.) this is likely to require a revision to this aviation obstacle lighting variation.
6. Please let me know if you have any further queries.

Yours sincerely,



Andy Wells  
Manager Aviation and Wind Farm Policy