



**Cruach Clenamacrie Wind Farm**

**FEI Appendix 6.1**

**Proposed Apportioned Noise  
Limits**

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# FEI Technical Appendix 6.1

Cruach Clenamacrie Wind Farm

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Report Prepared for:

Voltalia UK Ltd

Author:

Paul Hawthorne (Green Cat Renewables Ltd)

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## 6 Technical Appendix 6.1

### 6.1 Proposed Apportioned Noise Limits

As the adopted ETSU-R-97 limits apply to cumulative immissions from both the Proposed Development and Corr Chnoc Wind Farm, it is suggested that each development be assigned apportioned limits, as discussed in section 5.4 of the IoA Good Practice Guide in relation to concurrent applications. The following methodology was applied to both projects:

Apportioned noise limits are calculated by:

- determining available headroom above predicted cumulative immission levels;
- assigning equal increases in immission for each project above predicted levels to a maximum of +2dB; and
- adopting the expanded immission levels as apportioned limits.

The resulting apportioned limits for the Proposed Development, applicable for both daytime and night-time periods, are given in **Table 6.1**. The apportioned limits are then tested against the adopted ETSU-R-97 limits to ensure compliance.

**Table 6.1: Proposed Development apportioned limits (all assessment periods)**

NAL	Location	Standardised V10 wind speed (m/s)								
		4	5	6	7	8	9	10	11	12
NAL4	Dorran Cottage	24.9	29.5	33.7	34.8	34.9	35.2	35.5	35.6	35.6
NAL5	Glenamachrie	25.4	30.0	34.2	35.3	35.4	35.7	36.0	36.1	36.1

The same approach has been applied to the Corr Chnoc immission levels, shown in **Table 6.2**

**Table 6.2: Corr Chnoc apportioned limits (all assessment periods)**

NAL	Location	Standardised V10 wind speed (m/s)								
		4	5	6	7	8	9	10	11	12
NAL4	Dorran Cottage	25.8	30.4	34.6	35.7	35.8	36.1	36.4	36.5	36.5
NAL5	Glenamachrie	25.2	29.8	34.1	35.1	35.3	35.5	35.8	35.9	35.9

To confirm whether the proposed apportioned limits for each development can be accommodated, the limits were summed with the proposed Corr Chnoc and tested for compliance with the adopted ETSU-R-97 limits. Exceedance of limits is shown below in **Table 6.3** and **Table 6.4**.

**Table 6.3: Exceedance of total daytime ETSU-R-97 limits**

NAL	Location	Standardised V10 wind speed (m/s)								
		4	5	6	7	8	9	10	11	12
NAL4	Dorran Cottage	-8.7	-4.8	-1.2	-0.9	-1.6	-2.2	-3.1	-4.3	-5.9
NAL5	Glenamachrie	-8.8	-4.9	-1.2	-0.9	-1.7	-2.3	-3.2	-4.4	-6.0

**Table 6.4: Exceedance of total night-time ETSU-R-97 limits**

NAL	Location	Standardised V10 wind speed (m/s)								
		4	5	6	7	8	9	10	11	12
NAL4	Dorran Cottage	-14.6	-10.0	-5.8	-4.8	-4.6	-4.3	-4.0	-4.7	-6.8
NAL5	Glenamachrie	-14.7	-10.1	-5.8	-4.8	-4.7	-4.4	-4.1	-4.8	-6.9

The results given in **Table 6.3** and **Table 6.4** demonstrate that the proposed apportioned limits can be accommodated cumulatively in accordance with ETSU-R-97 and the IoA Good Practice Guide.

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**Registered Office**

Green Cat Renewables  
Stobo House  
Roslin  
Midlothian  
EH25 9RE

+44 (0) 131 541 0060

[info@greencatrenewables.co.uk](mailto:info@greencatrenewables.co.uk)  
[www.greencatrenewables.co.uk](http://www.greencatrenewables.co.uk)