



APPENDIX 12-2

NOISE STUDY AREA

APPENDIX 12-2 NOISE STUDY AREA

The Institute of Acoustics document Good Practice Guide To The Application Of ETSU-R-97 For The Assessment And Rating Of Wind Turbine Noise states, in section 2.2 in relation to the extent of the study area:

The 'study area' for background noise surveys (and noise assessment) should, as a minimum, be the area within which noise levels from the proposed, consented and existing wind turbine(s) may exceed 35 dB LA90 at up to 10 m/s wind speed. (Note: unless stated, in this document the wind speed reference for noise data is the 10 metre standardised wind speed, derived from the wind speed at turbine hub height as explained in Section 2.6).

With reference to the Cumulative Long List (See Chapter 2) the following wind energy developments were considered for inclusion in the cumulative noise assessment:

- ▶ The operational Cahermurphy Wind farm (CCC Refs 14/551, 19/159) adjacent to the Proposed Development;
- ▶ The operational Kiltumper Wind Farm (CCC 234010) at 2.5 km;
- ▶ The operational Booltiagh Wind Farm (CCC Ref: 07/2900) at over 6 km,
- ▶ The operational Booltiagh Extension Wind Farm (ACP Ref: 120616) at over 6 km
- ▶ The operational Boolynagleragh Wind Farm (ACP Ref 236736) at over 11 km;
- ▶ The operational Boolynagleragh Extension (ACP Ref 244096)
- ▶ The operational Tullabrack Wind Farm (CCC Ref 10/64) at over 11 km;
- ▶ The operational Moneypoint Wind Farm (CCC 12/74) at over
- ▶ The operational Crossmore Wind Farm (CCC 09123, 19388, 20824) at over 8 km;
- ▶ The operational Moanmore Wind Farm (ACP 123292) at over 12 km;
- ▶ Moanmore Lower Wind Farm (CCC 2560257) at over 14 km;
- ▶ Ballykett Wind Farm (ACP 319961) at over 11 km;
- ▶ The operational Glenmore Wind Farm (ACP 245392) at over 4 km;
- ▶ The operational Letteragh Wind Farm (ACP PL03.239933) at over 10 km;
- ▶ The operational Slieve Callan Wind Farm (PL03.237524) at over 6 km;
- ▶ Slieveacurry Wind Farm, which is at pre-planning stage, at over 9 km;
- ▶ The operational Leanamore Wind Farm (ACP PL08.2392) at over 22 km

Of these developments, Cahermurphy and Kiltumper Wind Farms are included in the cumulative noise assessment. The remaining wind farms are at greater distances and are not likely to give rise to significant cumulative noise effects with the proposed development.

As discussed in Chapter 12 it is considered that a lower daytime threshold of 40 dB LA90 is appropriate for low noise environments where the background noise is less than 30 dB(A). Therefore, the study area for the operational phase was determined as the area predicted to exceed 30 dB LA90 at the maximum predicted turbine noise emission level from the proposed project in isolation as presented in Figure A12-2-1.

All 198 noise-sensitive locations identified within the noise study area are considered in the noise assessment.

Figure A12-2-1 Noise Study Area

