

APPENDIX 12.4 – SOUND POWER LEVELS

Wind speed at 10m, m/s	Sound Power Level dB(A) at Octave-band centre frequency, Hz								Overall (dB(A))
	63	125	250	500	1000	2000	4000	8000	
3	76.5	88.3	87.0	86.8	86.3	85.1	83.0	74.7	93.5
4	78.0	84.8	88.5	88.3	87.8	86.6	84.5	76.2	95.0
5	82.2	89.2	93.0	93.9	94.4	93.1	88.8	79.6	100.5
6	86.4	93.4	97.2	98.1	98.6	97.3	93.3	83.8	104.7
7	87.8	94.8	98.6	99.5	99.9	98.7	94.4	85.2	106.0
8	88.9	94.6	96.9	97.7	99.5	100.0	97.7	87.1	106.0
9	88.9	94.6	96.9	97.7	99.5	100.0	97.7	87.1	106.0

Table 1 Assumed Turbine Sound Power Levels for Proposed Briskalagh Wind Turbines (Nordex N163 at 103.5 m hub height)

Wind speed at 10m, m/s	Sound Power Level dB(A) at Octave-band centre frequency, Hz								Overall (dB(A))
	63	125	250	500	1000	2000	4000	8000	
3	79.5	85.6	88.6	89.9	91.2	88.1	80.5	68.1	96.3
4	79.5	85.6	88.6	89.9	91.2	88.1	80.5	68.1	96.3
5	79.5	85.6	88.6	89.9	91.2	88.1	80.5	68.1	96.3
6	83.9	90.0	93.0	94.3	95.6	92.5	84.9	72.5	100.7
7	86.5	92.6	95.6	96.9	98.2	95.1	87.5	75.1	103.3
8	87.2	93.3	96.3	97.6	98.9	95.8	88.2	75.8	104.0
9	87.2	93.3	96.3	97.6	98.9	95.8	88.2	75.8	104.0

Table 2 Assumed Turbine Sound Power Levels for Folye and Kyleballyoghter Wind Turbines (Enercon E82 at 80 m hub height)