



## APPENDIX 12-4

*SOUND POWER LEVELS*

**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	81.0	85.7	88.0	88.5	88.9	86.8	77.3	58.4	95.0
4	82.5	87.2	89.5	90.0	90.4	88.3	78.8	59.9	96.5
5	87.0	91.7	94.0	94.5	94.9	92.8	83.3	64.4	101.0
6	91.4	96.1	98.4	98.9	99.3	97.2	87.7	68.8	105.4
7	92.5	97.2	99.5	100.0	100.4	98.3	88.8	69.9	106.5
8	92.6	97.3	99.6	100.1	100.5	98.4	88.9	70.0	106.6
9	92.6	97.3	99.6	100.1	100.5	98.4	88.9	70.0	106.6

**Table 1** Assumed Turbine Sound Power Levels for Laurclavagh Renewable Energy Development  
 (Nordex N163 at 103.5 m hub height)