

Appendix 9.4 Potentially Cumulative Developments Identified – Applied Source Noise Terms of Turbines

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Wind speed, m/s	dBL _{A90} at Octave band centre frequency, Hz									A-weighted broad-band normalised sound power level including +2 dB uncertainty, dBL _{A90}
	31.5	63	125	250	500	1000	2000	4000	8000	
Enercon E44 – Ore Brae Turbine – 45m hub height										
4		75.5	82.2	84.6	87.9	90.5	87.2	80.4	75.6	102.7
5		75.5	82.2	84.6	87.9	90.5	87.2	80.4	75.6	102.7
6		75.5	82.2	84.6	87.9	90.5	87.2	80.4	75.6	102.7
7		75.5	82.2	84.6	87.9	90.5	87.2	80.4	75.6	102.7
8		83.7	89.2	92.8	94.9	96.9	94.2	86.9	80.8	104.3
9		84.4	90.9	93.1	96.0	97.5	94.0	86.7	80.4	105.0
10		84.2	89.9	93.3	96.3	97.4	94.1	86.8	79.9	105.0
11		84.2	89.9	93.3	96.3	97.4	94.1	86.8	79.9	105.0
12		84.2	89.9	93.3	96.3	97.4	94.1	86.8	79.9	105.0
Ecotec Scirocco – 9m hub height										
4		48.0	54.2	63.0	59.9	66.0	66.5	62.6	63.9	75.3
5		48.0	54.2	63.0	59.9	66.0	66.5	62.6	63.9	78.8
6		48.0	54.2	63.0	59.9	66.0	66.5	62.6	63.9	81.5
7		48.0	54.2	63.0	59.9	66.0	66.5	62.6	63.9	83.7
8		48.0	54.2	63.0	59.9	66.0	66.5	62.6	63.9	85.9
9		48.0	54.2	63.0	59.9	66.0	66.5	62.6	63.9	87.8
10		48.0	54.2	63.0	59.9	66.0	66.5	62.6	63.9	89.8
11		48.0	54.2	63.0	59.9	66.0	66.5	62.6	63.9	89.8
12		48.0	54.2	63.0	59.9	66.0	66.5	62.6	63.9	89.8