

## Appendix 9.5 Potentially Cumulative Developments Identified – Applied Source Noise Terms of Turbines

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Wind speed, m/s	Octave band centre frequency, Hz								
	31.5	63	125	250	500	1000	2000	4000	8000
<b>Enercon E44 – Rennibister &amp; Crowness turbines</b>									
4	83.7	90.5	95.5	96.5	97.8	95.0	88.3	83.6	83.7
5	83.7	90.5	95.5	96.5	97.8	95.0	88.3	83.6	83.7
6	83.7	90.5	95.5	96.5	97.8	95.0	88.3	83.6	83.7
7	83.7	90.5	95.5	96.5	97.8	95.0	88.3	83.6	83.7
8	86.7	92.2	95.8	97.9	99.9	97.2	89.9	83.8	86.7
9	87.4	93.9	96.1	99.0	100.5	97.0	89.7	83.4	87.4
10	87.2	92.9	96.3	99.3	100.4	97.1	89.8	82.9	87.2
11	87.2	92.9	96.3	99.3	100.4	97.1	89.8	82.9	87.2
12	87.2	92.9	96.3	99.3	100.4	97.1	89.8	82.9	87.2
<b>Proven 35 – Haughhead turbine</b>									
4	52.0	63.2	69.0	75.0	80.2	81.8	78.7	78.0	63.8
5	54.7	65.9	71.7	77.7	82.9	84.5	81.4	80.7	66.5
6	57.4	68.6	74.4	80.4	85.6	87.2	84.1	83.4	69.2
7	60.0	71.2	77.0	83.0	88.2	89.8	86.7	86.0	71.8
8	62.7	73.9	79.7	85.7	90.9	92.5	89.4	88.7	74.5
9	69.0	80.2	86.0	92.0	97.2	98.8	95.7	95.0	80.8
10	69.0	80.2	86.0	92.0	97.2	98.8	95.7	95.0	80.8
11	69.9	81.1	86.9	92.9	98.1	99.7	96.6	95.9	81.7
12	69.9	81.1	86.9	92.9	98.1	99.7	96.6	95.9	81.7

Turbines for which limited information on sound power available assumed to operate at 35 dB at closest non-financially involved property across range of wind speeds and spectra from similarly-sized turbines applied.

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