

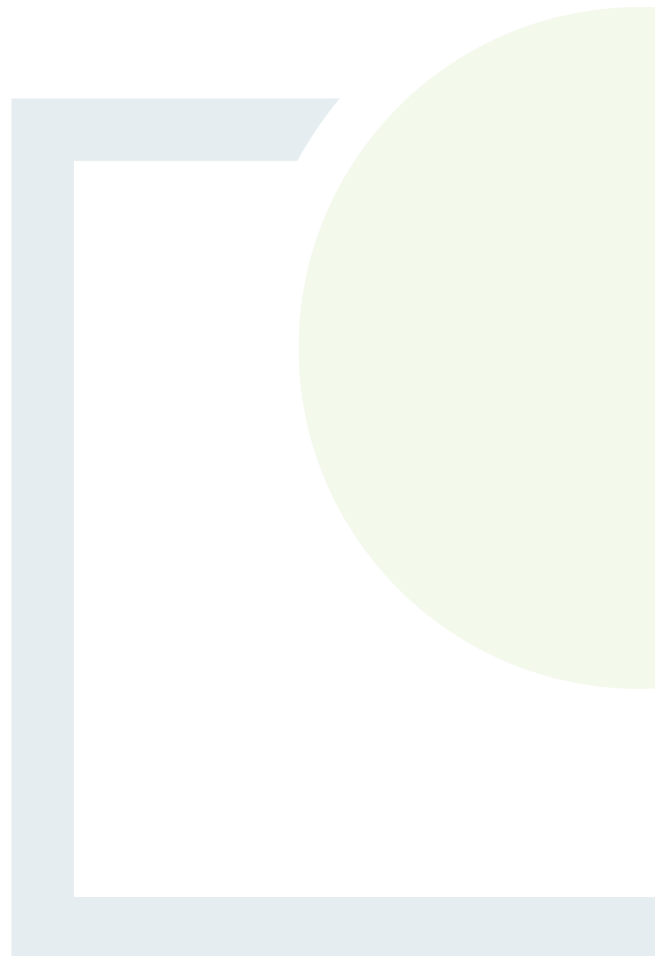


**FEHILY  
TIMONEY**

**CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING**

## **APPENDIX 9.4**

Sound Power Level Data for  
Wind Turbines





**Table 9.4.1: Wind Turbine (N117 3.6MW with serrated edges) - Sound Power Data (10 Hz to 10 kHz) Corresponding to Wind Speeds Referenced to Hub Height**

Wind Speed (m/s)	3	4	5	6	7	8	9	10	11	12	Up to cut-out
	92.5	94.4	99.3	102.8	103.5	103.5	103.5	103.5	103.5	103.5	103.5

**Table 9.4.3: Wind Turbine (N117 3.6MW with serrated edges) – Typical 1/1 octave band spectrum for 63 Hz to 8 kHz.**

1/1 oct. band, centre freq.	63	125	250	500	1000	2000	4000	8000
3 m/s	72.8	80.1	86.5	86.6	85.1	84.4	81.0	75.9
4 m/s	73.5	80.2	86.2	86.4	87.6	89.0	85.8	74.1
5 m/s	79.2	86.2	89.5	89.7	92.1	93.8	92.9	83.0
6 m/s	83.2	89.5	93.1	93.7	95.8	96.9	96.4	86.9
7 m/s	84.2	90.4	93.3	93.8	96.6	98.0	97.0	87.7
8 m/s	84.2	90.4	93.3	93.8	96.6	98.0	97.0	87.7
9 m/s	84.2	90.4	93.3	93.8	96.6	98.0	97.0	87.7
10 m/s	84.2	90.4	93.3	93.8	96.6	98.0	97.0	87.7
11 m/s	84.2	90.4	93.3	93.8	96.6	98.0	97.0	87.7
12 m/s	84.2	90.4	93.3	93.8	96.6	98.0	97.0	87.7

