



Galileo 03 Ltd.

Mynydd Ty-talwyn Energy Park - Environmental Statement Volume III

Appendix 9.5: Proposed and Cumulative Wind Turbine Details

Project Reference: 663870

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RSK



Appendix 9.5 - Proposed and Cumulative Wind Turbine Details

Proposed Development Wind Turbine Noise Data

The octave band centre frequency sound power data provided in **Table 1** is taken from manufacturers data for the candidate turbine used to inform the noise assessment.

It is noted that the representative test results provided in manufacturer data sheets and are not guaranteed levels. On final selection of turbine model, a statement of guarantee from the manufacturer regarding sound power levels and tonality should be sought.

Octave Band Centre Frequency	Vestas V162 PO7200 ¹
	Sound Power Level (dB)
63 Hz	88.9
125 Hz	97.4
250 Hz	101.2
500 Hz	101.9
1000 Hz	100.6
2000 Hz	96.2
4000 Hz	88.5
8000Hz	77.6
dB (A)	105.5
Notes:	
1 Third octave noise emission EnVentusTM V162-7.2MW 50/60Hz	

Table 1 Octave Band Centre Frequency Data – Candidate Turbine

Hub heights and blade diameter information for the candidate turbine used in the assessment are provided in **Table 2**.

Hub Height (m)	119.0
Blade Diameter (m)	162.0

Table 2 Candidate Turbine Hub Height and Blade Diameter



Y Bryn Wind Farm

Details of the proposed turbines for Y Bryn Wind Farm are provided in **Table 3**.

No. Turbines	Hub height (m)	Max Sound Power dB(A)	Candidate Model
12 ¹	Various	109.2	Nordex T163 5.7 STE Turbine
Notes: 1: Y Bryn Wind Farm has 18 wind turbines, only 12 are within the 5 km cumulative search study area			

Table 3 Y Bryn Turbine Details

The setting out coordinates used in the model are provided in **Table 4** below:

ID	Easting	Northing	Hub Height (m)	Tip Height (m)
T6	282453	190558	144 m	230 m
T7	281978	190586	144 m	230 m
T8	282300	189991	164 m	250 m
T9	282490	189646	164 m	250 m
T10	282783	189343	164 m	250 m
T11	283107	188997	120 m	206 m
T12	280945	189877	120 m	206 m
T13	281299	189545	164 m	250 m
T14	281770	189376	120 m	206 m
T15	282166	189165	120 m	206 m
T16	282459	188852	120 m	206 m
T17	280888	189123	120 m	206 m

Table 4 Y Bryn Turbine Coordinates

Newlands Wind Farm

Details of the proposed turbines for Newlands Wind Farm are provided in **Table 5**.

No. Turbines	Hub height (m)	Max Sound Power dB(A)	Candidate Model
1	46.9	100.5	EWT DW54 500kW

Table 5 Newlands Turbine Details

The setting out coordinates used in the model are provided in **Table 6** below:

ID	Easting	Northing
T1	281465	183872

Table 6 Newlands Turbine Coordinates

Cefn Park Wind Farm

Details of the proposed turbines for Cefn Park Wind Farm are provided in **Table 7**.



No. Turbines	Hub height (m)	Max Sound Power dB(A)	Candidate Model
1	9	88.3	Kingspan KW6

Table 7 Cefn Park Turbine Details

The setting out coordinates used in the model are provided in **Table 8** below:

ID	Easting	Northing
T1	286252	184793

Table 8 Cefn Park Turbine Coordinates

Baiden Farm Wind Farm

Details of the proposed turbines for Baiden Farm Wind Farm are provided in **Table 9**.

No. Turbines	Hub height (m)	Max Sound Power dB(A)	Candidate Model
2	18.3	88.1	Gaia-Wind GW11

Table 9 Baiden Farm Turbine Details

The setting out coordinates used in the model are provided in **Table 10** below:

ID	Easting	Northing
T1	286940	185168
T2	286892	185295

Table 10 Baiden Farm Turbine Coordinates

Gelli Las Farm Wind Farm

Details of the proposed turbines for Gelli Las Farm Wind Farm are provided in **Table 11**.

No. Turbines	Hub height (m)	Max Sound Power dB(A)	Candidate Model
2	30	99.2	Norwin 29/225kW

Table 11 Gelli Las Farm Turbine Details

The setting out coordinates used in the model are provided in **Table 12** below:

ID	Easting	Northing
T1	288209	186312
T2	288220	186196

Table 12 Gelli Las Farm Turbine Coordinates



Cwm Risca Farm Wind Farm

Details of the proposed turbines for Cwm Risca Farm Wind Farm are provided in **Table 13**.

No. Turbines	Hub height (m)	Max Sound Power dB(A)	Candidate Model
1	18.3	88.1	Gaia-Wind GW11

Table 13 Cwm Risca Farm Turbine Details

The setting out coordinates used in the model are provided in **Table 14** below:

ID	Easting	Northing
T1	287878	184624

Table 14 Cwm Risca Farm Turbine Coordinates



