

Project:

CompetitiveEnergyFinal

Description:

Vestas V82 - 103.3 dB(A)

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Renewable Energy Research Lab, University of Massachusetts
160 Governors Drive
US-AMHURST, MA 01003
2969

Calculated:

10/17/2006 4:51 PM/2.4.0.57

DECIBEL - Detailed results

Calculation: Vestas V82 - 103.3 dB(A)

Calculation Results**Noise sensitive area: A Phil Bloomstein 98 Deer Hill Rd****WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	1,124	1,133	33.4	Yes	28.29	103.3	3.01	72.08	2.15	3.78	0.00	0.00	78.02	0.00
2	528	540	35.7	Yes	37.14	103.3	3.00	65.65	1.03	2.48	0.00	0.00	69.16	0.00
3	329	345	36.4	Yes	42.85	103.3	2.98	61.75	0.66	1.02	0.00	0.00	63.43	0.00
Sum	44.00													

Noise sensitive area: B Robert Gerrish 35 Deer Hill Rd**WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	1,060	1,068	37.9	Yes	29.13	103.3	3.01	71.57	2.03	3.57	0.00	0.00	77.17	0.00
2	470	481	40.5	Yes	38.91	103.3	3.00	64.64	0.91	1.83	0.00	0.00	67.38	0.00
3	408	418	37.4	Yes	40.43	103.3	2.99	63.43	0.79	1.63	0.00	0.00	65.86	0.00
Sum	42.94													

Noise sensitive area: C Jeff Keating 166 Sibley Rd**WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	834	842	40.5	Yes	32.07	103.3	3.01	69.50	1.60	3.13	0.00	0.00	74.23	0.00
2	483	491	40.0	Yes	38.61	103.3	3.00	64.83	0.93	1.93	0.00	0.00	67.69	0.00
3	641	646	39.0	Yes	35.18	103.3	3.00	67.20	1.23	2.69	0.00	0.00	71.12	0.00
Sum	40.85													

Noise sensitive area: D Steve Bennett 130 Sibley Rd**WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	1,146	1,154	37.5	Yes	28.19	103.3	3.01	72.24	2.19	3.68	0.00	0.00	78.11	0.00
2	921	927	36.8	Yes	30.77	103.3	3.01	70.35	1.76	3.43	0.00	0.00	75.53	0.00
3	1,078	1,083	34.6	Yes	28.87	103.3	3.01	71.69	2.06	3.70	0.00	0.00	77.44	0.00
Sum	34.19													

Noise sensitive area: E Avia Haven 418 N. Palermo Rd**WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	2,147	2,154	55.2	Yes	20.63	103.3	3.01	77.67	4.09	3.92	0.00	0.00	85.68	0.00
2	2,220	2,225	48.3	Yes	20.08	103.3	3.01	77.95	4.23	4.06	0.00	0.00	86.23	0.00
3	2,420	2,424	42.0	Yes	18.81	103.3	3.01	78.69	4.61	4.21	0.00	0.00	87.50	0.00
Sum	24.68													

Noise sensitive area: F Carrie & Steve Bennett 62 Bennett Lane**WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	871	881	40.2	Yes	31.52	103.3	3.01	69.90	1.67	3.22	0.00	0.00	74.79	0.00
2	967	973	32.8	Yes	30.06	103.3	3.01	70.76	1.85	3.63	0.00	0.00	76.25	0.00
3	1,192	1,196	28.7	Yes	27.51	103.3	3.01	72.56	2.27	3.97	0.00	0.00	78.80	0.00
Sum	34.77													

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Noise sensitive area: G Bill Pickford 132 Goosepecker Ridge**WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	2,416	2,420	85.5	Yes	19.44	103.3	3.01	78.68	4.60	3.59	0.00	0.00	86.87	0.00
2	2,128	2,131	73.3	Yes	21.07	103.3	3.01	77.57	4.05	3.62	0.00	0.00	85.24	0.00
3	1,920	1,923	74.9	Yes	22.51	103.3	3.01	76.68	3.65	3.46	0.00	0.00	83.80	0.00

Sum 25.96

Noise sensitive area: H Lyn Hadnyack 200 Beaver Ridge Road**WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	1,727	1,730	38.1	Yes	23.22	103.3	3.01	75.76	3.29	4.04	0.00	0.00	83.09	0.00
2	2,329	2,330			19.34	103.3	3.01	78.35	4.43	4.19	0.00	0.00	86.97	0.00
3	2,527	2,528			18.21	103.3	3.01	79.06	4.80	4.24	0.00	0.00	88.10	0.00

Sum 25.59

Noise sensitive area: I Reed & Heidi Brugger 15 Deer Hill Rd**WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	1,824	1,834	47.1	Yes	22.64	103.3	3.01	76.27	3.48	3.92	0.00	0.00	83.67	0.00
2	1,263	1,273	39.7	Yes	27.07	103.3	3.01	73.10	2.42	3.72	0.00	0.00	79.24	0.00
3	1,033	1,044	46.7	Yes	29.69	103.3	3.01	71.38	1.98	3.25	0.00	0.00	76.61	0.00

Sum 32.11

Noise sensitive area: J David & Maryan Bennett 24 Bennett Lane**WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	966	973	38.7	Yes	30.27	103.3	3.01	70.77	1.85	3.42	0.00	0.00	76.04	0.00
2	832	838	38.0	Yes	32.03	103.3	3.01	69.46	1.59	3.22	0.00	0.00	74.28	0.00
3	1,023	1,026	35.3	Yes	29.53	103.3	3.01	71.22	1.95	3.61	0.00	0.00	76.78	0.00

Sum 35.51

Noise sensitive area: K Mathew Asrienne Benneett**WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	989	998	41.2	Yes	30.06	103.3	3.01	70.98	1.90	3.37	0.00	0.00	76.25	0.00
2	1,064	1,070	33.2	Yes	28.96	103.3	3.01	71.59	2.03	3.73	0.00	0.00	77.35	0.00
3	1,284	1,288	28.9	Yes	26.64	103.3	3.01	73.20	2.45	4.03	0.00	0.00	79.67	0.00

Sum 33.54

Noise sensitive area: L Robert and Jean Clark**WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	951	958	40.2	Yes	30.51	103.3	3.01	70.63	1.82	3.35	0.00	0.00	75.79	0.00
2	684	690	39.8	Yes	34.42	103.3	3.00	67.78	1.31	2.79	0.00	0.00	71.89	0.00
3	847	851	38.2	Yes	31.85	103.3	3.01	69.60	1.62	3.24	0.00	0.00	74.46	0.00

Sum 37.34

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Noise sensitive area: M Property Boundary D**WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	114	138	33.8	Yes	52.07	103.3	2.84	53.80	0.26	0.00	0.00	0.00	54.06	0.00
2	499	502	40.2	Yes	38.34	103.3	3.00	65.02	0.95	1.99	0.00	0.00	67.96	0.00
3	689	690	40.2	Yes	34.44	103.3	3.00	67.78	1.31	2.77	0.00	0.00	71.86	0.00

Sum 52.32

Noise sensitive area: N Property Boundary C**WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	486	494	41.7	Yes	38.65	103.3	3.00	64.88	0.94	1.83	0.00	0.00	67.65	0.00
2	124	140	36.3	Yes	51.97	103.3	2.86	53.92	0.27	0.00	0.00	0.00	54.18	0.00
3	353	357	41.5	Yes	42.90	103.3	2.98	62.05	0.68	0.65	0.00	0.00	63.38	0.00

Sum 52.65

Noise sensitive area: O Property Boundary A**WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	735	742	39.5	Yes	33.54	103.3	3.00	68.41	1.41	2.95	0.00	0.00	72.77	0.00
2	130	153	35.9	Yes	51.19	103.3	2.87	54.68	0.29	0.00	0.00	0.00	54.97	0.00
3	147	162	37.2	Yes	50.69	103.3	2.89	55.20	0.31	0.00	0.00	0.00	55.50	0.00

Sum 54.00

Noise sensitive area: P Property Boundary B**WTG**

No.	Distance [m]	Sound distance [m]	Mean height [m]	Visible	Calculated [dB(A)]	LwA,ref [dB(A)]	Dc [dB]	Adiv [dB]	Aatm [dB]	Agr [dB]	Abar [dB]	Amisc [dB]	A [dB]	Cmet [dB]
1	798	805	40.0	Yes	32.58	103.3	3.01	69.12	1.53	3.07	0.00	0.00	73.72	0.00
2	193	210	39.1	Yes	48.40	103.3	2.93	57.44	0.40	0.00	0.00	0.00	57.84	0.00
3	135	153	36.4	Yes	51.21	103.3	2.87	54.67	0.29	0.00	0.00	0.00	54.96	0.00

Sum 53.08