

Project:

Lars Hoem - Byneset

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**Kjeller Vindteknikk AS**  
Instituttveien 18  
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Calculated:

17.01.2008 09:21/2.5.5.74

## DECIBEL - Main Result

Calculation: Vindturbin i punktalternativ 1

### Noise calculation model:

ISO 9613-2 General

### Wind speed:

8.0 m/s

### Ground attenuation:

General, Ground factor: 0.5

### Meteorological coefficient, C0:

1.0 dB

### Type of demand in calculation:

1: WTG noise is compared to demand (DK, DE, SE, NL etc.)

### Noise values in calculation:

All noise values are mean values (Lwa) (Normal)

### Pure tones:

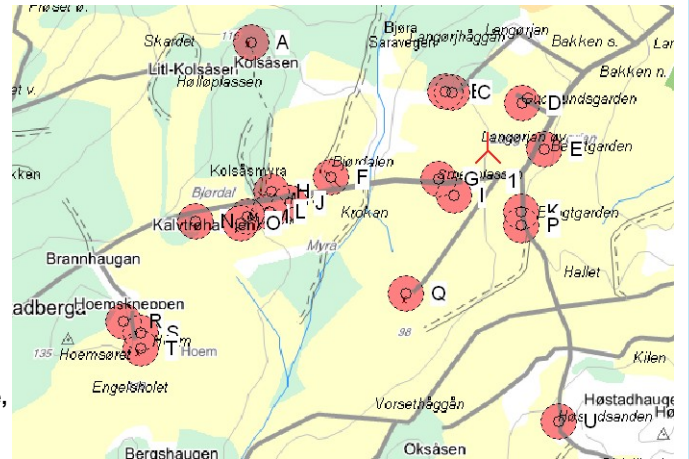
Pure and Impulse tone penalty are added to WTG source noise

### Height above ground level, when no value in NSA object:

4.0 m Don't allow override of model height with height from NSA object

### Deviation from "official" noise demands. Negative is more restrictive, positive is less restrictive.:

0.0 dB(A)



Scale 1:20 000

New WTG

Noise sensitive area

## WTGs

UTM WGS84 Zone: 32			WTG type				Noise data				Wind speed	LwA,ref	Pure tones	Octave data	
East	North	Z	Row	Valid	Manufact.	Type	Power	Diam.	Height	Creator	Name	[m/s]	[dB(A)]		
		[m]	data/Description				[kW]	[m]	[m]						
1	556 542	7 032 566	100	Alternativ 1	No	DANWIN		225/27	27.0	30.0	USER	8.0	103.8	0 dB	Generic *)

\*)Notice: One or more noise data for this WTG is generic or input by user

## Calculation Results

### Sound Level

Noise sensitive area		UTM WGS84 Zone: 32			Demands		Sound Level	Demands fulfilled ?	
No.	Name	East	North	Z	Imission height	Noise	From WTGs	Noise	
					[m]	[dB(A)]	[dB(A)]		
A	Noise Sensitive Point: 50 dB	555 914	7 032 850	107	4.0	50.0	34.6	Yes	
B	Noise Sensitive Point: 50 dB	556 428	7 032 720	97	4.0	50.0	47.5	Yes	
C	Noise Sensitive Point: 50 dB	556 447	7 032 718	99	4.0	50.0	48.2	Yes	
D	Noise Sensitive Point: 50 dB	556 634	7 032 691	105	4.0	50.0	49.5	Yes	
E	Noise Sensitive Point: 50 dB	556 692	7 032 569	102	4.0	50.0	49.8	Yes	
F	Noise Sensitive Point: 50 dB	556 124	7 032 494	93	4.0	50.0	39.8	Yes	
G	Noise Sensitive Point: 50 dB	556 410	7 032 491	96	4.0	50.0	49.6	Yes	
H	Noise Sensitive Point: 50 dB	555 968	7 032 456	99	4.0	50.0	36.3	Yes	
I	Noise Sensitive Point: 50 dB	556 453	7 032 446	98	4.0	50.0	49.8	Yes	
J	Noise Sensitive Point: 50 dB	556 016	7 032 426	98	4.0	50.0	37.1	Yes	
K	Noise Sensitive Point: 50 dB	556 630	7 032 403	100	4.0	50.0	47.9	Yes	
L	Noise Sensitive Point: 50 dB	555 962	7 032 403	100	4.0	50.0	36.0	Yes	
M	Noise Sensitive Point: 50 dB	555 904	7 032 390	101	4.0	50.0	35.0	Yes	
N	Noise Sensitive Point: 50 dB	555 766	7 032 378	105	4.0	50.0	32.9	Yes	
O	Noise Sensitive Point: 50 dB	555 886	7 032 373	102	4.0	50.0	34.6	Yes	
P	Noise Sensitive Point: 50 dB	556 631	7 032 369	100	4.0	50.0	46.4	Yes	
Q	Noise Sensitive Point: 50 dB	556 325	7 032 189	97	4.0	50.0	39.5	Yes	
R	Noise Sensitive Point: 50 dB	555 575	7 032 114	122	4.0	50.0	29.8	Yes	
S	Noise Sensitive Point: 50 dB	555 621	7 032 083	120	4.0	50.0	30.0	Yes	
T	Noise Sensitive Point: 50 dB	555 620	7 032 043	120	4.0	50.0	29.8	Yes	
U	Noise Sensitive Point: 50 dB	556 730	7 031 851	125	4.0	50.0	33.8	Yes	

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**DECIBEL - Main Result****Calculation:** Vindturbin i punktalternativ 1**Distances (m)****WTG**

NSA	1
A	689
B	192
C	179
D	155
E	150
F	424
G	152
H	584
I	149
J	544
K	185
L	602
M	662
N	798
O	684
P	216
Q	435
R	1067
S	1040
T	1060
U	739