

Project:

Tysvaer

Licensed user:

Meventus AS

Kongsgård Allé 59

NO-4632 Kristiansand

+47 3860 7115

Kyle Brennan / kyle@meventus.com

Calculated:

24.09.2019 15:42/3.2.744

NORD2000 - Main Result

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

Assumptions

Weather stability

Relative humidity

70.0 %

Air temperature

6.5 °C

Height for air temperature

2.0 m

Stability parameters

Night; Clear sky

Inverse Monin Obukhov length

0.0100

Temperature scale T*

0.0500

Terrain

Elevation based on object

Height_DTM

Roughness based on area object

Roughness_N50

Terrain type based on area object

Terrain Hardness (N50)

Month for calculation

January

Wind speed criteria

Uniform wind speed at 10 m agl.

Wind speed

Max noise wind speed

Max noise wind speed

All receptors downwind

Wind direction

4.0 m

Height above ground level for receiver

Wind speed has been extrapolated to calculation height using

IEC profile shear (z0 = 0.05m)

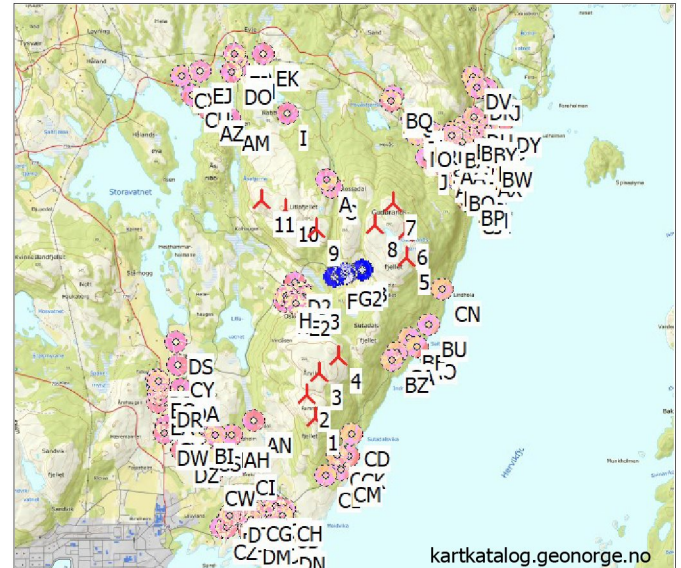
No stability correction

5.022

Version

All coordinates are in

UTM (north)-WGS84 Zone: 32



Scale 1:100,000

New WTG

Noise sensitive area

WTGs

	Easting	Northing	Z	Row data/Description	WTG type			Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Setting	Noise data	
					Valid	Manufact.	Type-generator					Creator	Name
1	304,046	6,577,449	211.0	Siemens SWT-DD-130 Wood...	Yes	Siemens	SWT-DD-130 Wood-4,300	4,300	130.0	85.0	Day	USER	Mode 2 - Calculated - 105.0 dB - 04.2019
											Evening	USER	Mode 2 - Calculated - 105.0 dB - 04.2019
											Night	USER	Mode 6 - Calculated - 100.0 dB - 04.2019
2	303,951	6,577,756	194.3	Siemens SWT-DD-130 Wood...	Yes	Siemens	SWT-DD-130 Wood-4,300	4,300	130.0	85.0	Day	USER	Mode 2 - Calculated - 105.0 dB - 04.2019
											Evening	USER	Mode 2 - Calculated - 105.0 dB - 04.2019
											Night	USER	Mode 2 - Calculated - 105.0 dB - 04.2019
3	304,127	6,578,046	217.5	Siemens SWT-DD-130 Wood...	Yes	Siemens	SWT-DD-130 Wood-4,300	4,300	130.0	85.0	Day	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019
											Evening	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019
											Night	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019
4	304,391	6,578,248	191.4	Siemens SWT-DD-130 Wood...	Yes	Siemens	SWT-DD-130 Wood-4,300	4,300	130.0	85.0	Day	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019
											Evening	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019
											Night	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019
5	305,374	6,579,503	244.7	Siemens SWT-DD-130 Wood...	Yes	Siemens	SWT-DD-130 Wood-4,300	4,300	130.0	85.0	Day	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019
											Evening	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019
											Night	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019
6	305,364	6,579,845	262.0	Siemens SWT-DD-130 Wood...	Yes	Siemens	SWT-DD-130 Wood-4,300	4,300	130.0	85.0	Day	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019
											Evening	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019
											Night	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019
7	305,226	6,580,247	260.4	Siemens SWT-DD-130 Wood...	Yes	Siemens	SWT-DD-130 Wood-4,300	4,300	130.0	85.0	Day	USER	Mode 2 - Calculated - 105.0 dB - 04.2019
											Evening	USER	Mode 2 - Calculated - 105.0 dB - 04.2019
											Night	USER	Mode 2 - Calculated - 105.0 dB - 04.2019
8	304,974	6,579,960	261.8	Siemens SWT-DD-130 Wood...	Yes	Siemens	SWT-DD-130 Wood-4,300	4,300	130.0	85.0	Day	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019
											Evening	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019
											Night	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019
9	304,188	6,579,956	215.8	Siemens SWT-DD-130 Wood...	Yes	Siemens	SWT-DD-130 Wood-4,300	4,300	130.0	85.0	Day	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019
											Evening	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019
											Night	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019
10	303,792	6,580,231	199.1	Siemens SWT-DD-130 Wood...	Yes	Siemens	SWT-DD-130 Wood-4,300	4,300	130.0	85.0	Day	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019
											Evening	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019
											Night	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019
11	303,482	6,580,369	190.3	Siemens SWT-DD-130 Wood...	Yes	Siemens	SWT-DD-130 Wood-4,300	4,300	130.0	85.0	Day	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019
											Evening	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019
											Night	USER	Mode 1 - Calculated - Std. 106.0 dB - 04.2019

Calculation Results

Sound level

Noise sensitive area

No.	Name	Easting	Northing	Z	Imission height [m]	Demands Noise [dB(A)]	Sound level From WTGs [dB(A)]	Demands fulfilled? Noise [dB(A)]
	A Noise sensitive point: Norwegian - Yellow zone (297)	304,363	6,580,595	148.8	4.0	45.0	44.2	Yes
	A Day						37.8	
	A Evening						37.8	
	A Night						37.8	

To be continued on next page...

NORD2000 - Main Result

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

...continued from previous page

Noise sensitive area				Demands		Sound level	Demands fulfilled?
No.	Name	Easting	Northing	Z	Imission height	Noise	Noise
				[m]	[m]	[dB(A)]	[dB(A)]
	B Noise sensitive point: Norwegian - Yellow zone (298)	304,772	6,579,374	174.3	4.0	45.0	49.6
	B Day						43.2
	B Evening						43.2
	B Night						43.2
	C Noise sensitive point: Norwegian - Yellow zone (299)	304,426	6,580,485	161.8	4.0	45.0	46.6
	C Day						40.2
	C Evening						40.2
	C Night						40.2
	D Noise sensitive point: Norwegian - Yellow zone (300)	303,960	6,579,112	97.0	4.0	45.0	47.3
	D Day						40.9
	D Evening						40.9
	D Night						40.8
	D2 Noise sensitive point: Norwegian - Yellow zone (301)	303,877	6,579,257	84.9	4.0	45.0	48.8
	D2 Day						42.5
	D2 Evening						42.5
	D2 Night						42.4
	D3 Noise sensitive point: Norwegian - Yellow zone (302)	303,973	6,579,061	102.8	4.0	45.0	47.1
	D3 Day						40.7
	D3 Evening						40.7
	D3 Night						40.6
	E Noise sensitive point: Norwegian - Yellow zone (303)	303,863	6,579,003	102.3	4.0	45.0	46.9
	E Day						40.6
	E Evening						40.6
	E Night						40.5
	E2 Noise sensitive point: Norwegian - Yellow zone (304)	303,875	6,578,980	103.4	4.0	45.0	47.1
	E2 Day						40.8
	E2 Evening						40.8
	E2 Night						40.7
	F Noise sensitive point: Norwegian - Yellow zone (305)	304,401	6,579,299	134.2	4.0	45.0	48.6
	F Day						42.2
	F Evening						42.2
	F Night						42.2
	G Noise sensitive point: Norwegian - Yellow zone (306)	304,526	6,579,331	154.1	4.0	45.0	49.0
	G Day						42.6
	G Evening						42.6
	G Night						42.6
	G2 Noise sensitive point: Norwegian - Yellow zone (307)	304,550	6,579,331	153.5	4.0	45.0	49.4
	G2 Day						43.0
	G2 Evening						43.0
	G2 Night						43.0
	H Noise sensitive point: Norwegian - Yellow zone (308)	303,756	6,579,088	85.4	4.0	45.0	46.6
	H Day						40.3
	H Evening						40.3
	H Night						40.2
	I Noise sensitive point: Norwegian - Yellow zone (309)	303,893	6,581,500	70.2	4.0	45.0	43.1
	I Day						36.7
	I Evening						36.7
	I Night						36.7
	J Noise sensitive point: Norwegian - Yellow zone (310)	305,704	6,580,824	39.0	4.0	45.0	44.6
	J Day						38.2
	J Evening						38.2
	J Night						38.2
	K Noise sensitive point: Norwegian - Yellow zone (311)	303,718	6,579,007	80.5	4.0	45.0	46.4
	K Day						40.1
	K Evening						40.1
	K Night						40.0
	L Noise sensitive point: Norwegian - Yellow zone (312)	305,566	6,581,159	39.2	4.0	45.0	43.6
	L Day						37.2
	L Evening						37.2
	L Night						37.2
	M Noise sensitive point: Norwegian - Yellow zone (313)	305,599	6,581,129	38.2	4.0	45.0	43.5
	M Day						37.1
	M Evening						37.1

To be continued on next page...

NORD2000 - Main Result

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

...continued from previous page

Noise sensitive area

No.	Name	Easting	Northing	Z	Imission height [m]	Demands Noise [dB(A)]	Sound level From WTGs [dB(A)]	Demands fulfilled? Noise [dB(A)]
	M Night						37.1	
	N Noise sensitive point: Norwegian - Yellow zone (314)	305,667	6,581,195	38.4	4.0	45.0	44.0	Yes
	N Day						37.6	
	N Evening						37.6	
	N Night						37.6	
	O Noise sensitive point: Norwegian - Yellow zone (315)	305,696	6,581,124	29.6	4.0	45.0	41.5	Yes
	O Day						35.1	
	O Evening						35.1	
	O Night						35.1	
	P Noise sensitive point: Norwegian - Yellow zone (316)	305,743	6,581,169	43.6	4.0	45.0	43.7	Yes
	P Day						37.3	
	P Evening						37.3	
	P Night						37.3	
	Q Noise sensitive point: Norwegian - Yellow zone (317)	302,678	6,577,252	23.2	4.0	45.0	38.7	Yes
	Q Day						33.2	
	Q Evening						33.2	
	Q Night						32.0	
	R Noise sensitive point: Norwegian - Yellow zone (318)	305,801	6,581,141	37.1	4.0	45.0	43.6	Yes
	R Day						37.2	
	R Evening						37.2	
	R Night						37.2	
	S Noise sensitive point: Norwegian - Yellow zone (319)	305,887	6,580,880	21.1	4.0	45.0	44.2	Yes
	S Day						37.8	
	S Evening						37.8	
	S Night						37.8	
	T Noise sensitive point: Norwegian - Yellow zone (320)	306,074	6,580,629	19.5	4.0	45.0	43.9	Yes
	T Day						37.5	
	T Evening						37.5	
	T Night						37.5	
	U Noise sensitive point: Norwegian - Yellow zone (321)	305,850	6,581,111	32.3	4.0	45.0	43.3	Yes
	U Day						36.9	
	U Evening						36.9	
	U Night						36.9	
	V Noise sensitive point: Norwegian - Yellow zone (322)	306,046	6,580,749	20.7	4.0	45.0	44.1	Yes
	V Day						37.7	
	V Evening						37.7	
	V Night						37.7	
	W Noise sensitive point: Norwegian - Yellow zone (323)	305,541	6,581,331	48.8	4.0	45.0	42.9	Yes
	W Day						36.6	
	W Evening						36.6	
	W Night						36.5	
	X Noise sensitive point: Norwegian - Yellow zone (324)	305,560	6,581,297	48.3	4.0	45.0	43.2	Yes
	X Day						36.8	
	X Evening						36.8	
	X Night						36.8	
	Y Noise sensitive point: Norwegian - Yellow zone (325)	305,613	6,581,278	55.9	4.0	45.0	43.4	Yes
	Y Day						37.0	
	Y Evening						37.0	
	Y Night						37.0	
	Z Noise sensitive point: Norwegian - Yellow zone (326)	305,581	6,581,265	45.6	4.0	45.0	43.3	Yes
	Z Day						37.0	
	Z Evening						37.0	
	Z Night						36.9	
	AA Noise sensitive point: Norwegian - Yellow zone (327)	305,987	6,580,880	28.0	4.0	45.0	45.0	Yes
	AA Day						38.6	
	AA Evening						38.6	
	AA Night						38.6	
	AB Noise sensitive point: Norwegian - Yellow zone (328)	305,922	6,580,706	31.9	4.0	45.0	43.2	Yes
	AB Day						36.8	
	AB Evening						36.8	
	AB Night						36.8	
	AC Noise sensitive point: Norwegian - Yellow zone (329)	306,226	6,580,512	17.9	4.0	45.0	41.8	Yes
	AC Day						35.4	

To be continued on next page...

NORD2000 - Main Result

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

...continued from previous page

Noise sensitive area

No.	Name	Easting	Northing	Z	Imission height	Demands Noise	Sound level From WTGs	Demands fulfilled? Noise
				[m]	[m]	[dB(A)]	[dB(A)]	[dB(A)]
	AC Evening						35.4	
	AC Night						35.4	
	AD Noise sensitive point: Norwegian - Yellow zone (330)	306,048	6,580,824	22.2	4.0	45.0	44.0	Yes
	AD Day						37.6	
	AD Evening						37.6	
	AD Night						37.6	
	AE Noise sensitive point: Norwegian - Yellow zone (331)	306,217	6,580,580	10.5	4.0	45.0	41.8	Yes
	AE Day						35.4	
	AE Evening						35.4	
	AE Night						35.4	
	AF Noise sensitive point: Norwegian - Yellow zone (332)	306,272	6,580,496	14.3	4.0	45.0	41.4	Yes
	AF Day						35.0	
	AF Evening						35.0	
	AF Night						35.0	
	AG Noise sensitive point: Norwegian - Yellow zone (333)	306,111	6,580,791	17.9	4.0	45.0	43.5	Yes
	AG Day						37.1	
	AG Evening						37.1	
	AG Night						37.1	
	AH Noise sensitive point: Norwegian - Yellow zone (334)	302,926	6,577,281	37.5	4.0	45.0	41.6	Yes
	AH Day						35.9	
	AH Evening						35.9	
	AH Night						34.9	
	AI Noise sensitive point: Norwegian - Yellow zone (335)	306,271	6,580,526	8.4	4.0	45.0	41.2	Yes
	AI Day						34.8	
	AI Evening						34.8	
	AI Night						34.8	
	AJ Noise sensitive point: Norwegian - Yellow zone (336)	306,212	6,580,636	2.5	4.0	45.0	42.7	Yes
	AJ Day						36.3	
	AJ Evening						36.3	
	AJ Night						36.3	
	AK Noise sensitive point: Norwegian - Yellow zone (337)	302,716	6,577,288	27.4	4.0	45.0	35.0	Yes
	AK Day						30.5	
	AK Evening						30.5	
	AK Night						27.9	
	AL Noise sensitive point: Norwegian - Yellow zone (338)	305,999	6,581,087	31.2	4.0	45.0	43.4	Yes
	AL Day						37.0	
	AL Evening						37.0	
	AL Night						37.0	
	AM Noise sensitive point: Norwegian - Yellow zone (339)	303,122	6,581,476	27.5	4.0	45.0	41.8	Yes
	AM Day						35.4	
	AM Evening						35.4	
	AM Night						35.4	
	AN Noise sensitive point: Norwegian - Yellow zone (340)	303,231	6,577,449	32.2	4.0	45.0	44.6	Yes
	AN Day						39.0	
	AN Evening						39.0	
	AN Night						38.0	
	AO Noise sensitive point: Norwegian - Yellow zone (341)	305,446	6,578,325	9.8	4.0	45.0	42.5	Yes
	AO Day						36.3	
	AO Evening						36.3	
	AO Night						36.1	
	AP Noise sensitive point: Norwegian - Yellow zone (342)	306,239	6,580,417	25.6	4.0	45.0	42.0	Yes
	AP Day						35.6	
	AP Evening						35.6	
	AP Night						35.6	
	AQ Noise sensitive point: Norwegian - Yellow zone (343)	305,273	6,581,596	54.7	4.0	45.0	40.6	Yes
	AQ Day						34.2	
	AQ Evening						34.2	
	AQ Night						34.2	
	AR Noise sensitive point: Norwegian - Yellow zone (344)	306,069	6,580,552	25.3	4.0	45.0	42.7	Yes
	AR Day						36.3	
	AR Evening						36.3	
	AR Night						36.3	
	AS Noise sensitive point: Norwegian - Yellow zone (345)	306,208	6,580,354	23.5	4.0	45.0	38.4	Yes

To be continued on next page...

NORD2000 - Main Result

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

...continued from previous page

Noise sensitive area

No.	Name	Easting	Northing	Z	Imission height	Demands Noise	Sound level From WTGs	Demands fulfilled? Noise
				[m]	[m]	[dB(A)]	[dB(A)]	[dB(A)]
	AS Day						32.0	
	AS Evening						32.0	
	AS Night						32.0	
	AT Noise sensitive point: Norwegian - Yellow zone (346)	306,192	6,581,001	11.9	4.0	45.0	42.8	Yes
	AT Day						36.4	
	AT Evening						36.4	
	AT Night						36.4	
	AU Noise sensitive point: Norwegian - Yellow zone (347)	306,432	6,580,695	5.7	4.0	45.0	44.0	Yes
	AU Day						37.6	
	AU Evening						37.6	
	AU Night						37.6	
	AV Noise sensitive point: Norwegian - Yellow zone (348)	306,436	6,580,736	6.9	4.0	45.0	43.4	Yes
	AV Day						37.1	
	AV Evening						37.1	
	AV Night						37.0	
	AW Noise sensitive point: Norwegian - Yellow zone (349)	306,438	6,580,761	5.7	4.0	45.0	43.1	Yes
	AW Day						36.7	
	AW Evening						36.7	
	AW Night						36.7	
	AX Noise sensitive point: Norwegian - Yellow zone (350)	306,477	6,580,690	2.4	4.0	45.0	41.9	Yes
	AX Day						35.5	
	AX Evening						35.5	
	AX Night						35.5	
	AY Noise sensitive point: Norwegian - Yellow zone (351)	306,466	6,580,731	5.9	4.0	45.0	42.5	Yes
	AY Day						36.1	
	AY Evening						36.1	
	AY Night						36.1	
	AZ Noise sensitive point: Norwegian - Yellow zone (352)	302,838	6,581,615	28.7	4.0	45.0	40.8	Yes
	AZ Day						34.4	
	AZ Evening						34.4	
	AZ Night						34.4	
	BA Noise sensitive point: Norwegian - Yellow zone (353)	306,056	6,581,093	28.8	4.0	45.0	42.9	Yes
	BA Day						36.5	
	BA Evening						36.5	
	BA Night						36.5	
	BB Noise sensitive point: Norwegian - Yellow zone (354)	306,079	6,581,138	34.2	4.0	45.0	42.6	Yes
	BB Day						36.3	
	BB Evening						36.3	
	BB Night						36.2	
	BC Noise sensitive point: Norwegian - Yellow zone (355)	306,102	6,581,110	28.6	4.0	45.0	42.8	Yes
	BC Day						36.4	
	BC Evening						36.4	
	BC Night						36.4	
	BD Noise sensitive point: Norwegian - Yellow zone (356)	306,173	6,581,067	20.4	4.0	45.0	43.1	Yes
	BD Day						36.7	
	BD Evening						36.7	
	BD Night						36.7	
	BE Noise sensitive point: Norwegian - Yellow zone (357)	306,155	6,581,131	29.3	4.0	45.0	42.1	Yes
	BE Day						35.7	
	BE Evening						35.7	
	BE Night						35.7	
	BF Noise sensitive point: Norwegian - Yellow zone (358)	305,356	6,578,435	23.1	4.0	45.0	42.6	Yes
	BF Day						36.3	
	BF Evening						36.3	
	BF Night						36.2	
	BG Noise sensitive point: Norwegian - Yellow zone (359)	306,184	6,581,124	29.3	4.0	45.0	42.2	Yes
	BG Day						35.8	
	BG Evening						35.8	
	BG Night						35.8	
	BH Noise sensitive point: Norwegian - Yellow zone (360)	306,227	6,581,064	18.5	4.0	45.0	42.6	Yes
	BH Day						36.2	
	BH Evening						36.2	
	BH Night						36.2	

To be continued on next page...

NORD2000 - Main Result

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

...continued from previous page

Noise sensitive area

Noise sensitive area					Demands		Sound level	Demands fulfilled?
No.	Name	Easting	Northing	Z	Imission height	Noise	From WTGs	Noise
				[m]	[m]	[dB(A)]	[dB(A)]	[dB(A)]
BI	Noise sensitive point: Norwegian - Yellow zone (361)	302,537	6,577,353	21.2	4.0	45.0	37.9	Yes
BI	Day						32.1	
BI	Evening						32.1	
BI	Night						31.3	
BJ	Noise sensitive point: Norwegian - Yellow zone (362)	306,527	6,580,713	1.7	4.0	45.0	40.0	Yes
BJ	Day						33.6	
BJ	Evening						33.6	
BJ	Night						33.6	
BK	Noise sensitive point: Norwegian - Yellow zone (363)	306,514	6,580,747	3.2	4.0	45.0	40.0	Yes
BK	Day						33.7	
BK	Evening						33.7	
BK	Night						33.6	
BL	Noise sensitive point: Norwegian - Yellow zone (364)	306,265	6,580,240	15.4	4.0	45.0	36.1	Yes
BL	Day						29.7	
BL	Evening						29.7	
BL	Night						29.7	
BM	Noise sensitive point: Norwegian - Yellow zone (365)	306,231	6,580,285	22.0	4.0	45.0	34.8	Yes
BM	Day						28.4	
BM	Evening						28.4	
BM	Night						28.4	
BN	Noise sensitive point: Norwegian - Yellow zone (366)	306,017	6,580,580	28.5	4.0	45.0	39.4	Yes
BN	Day						33.0	
BN	Evening						33.0	
BN	Night						33.0	
BO	Noise sensitive point: Norwegian - Yellow zone (367)	306,073	6,580,516	29.4	4.0	45.0	38.0	Yes
BO	Day						31.6	
BO	Evening						31.6	
BO	Night						31.6	
BP	Noise sensitive point: Norwegian - Yellow zone (368)	306,224	6,580,320	23.0	4.0	45.0	36.1	Yes
BP	Day						29.7	
BP	Evening						29.7	
BP	Night						29.7	
BQ	Noise sensitive point: Norwegian - Yellow zone (369)	305,303	6,581,653	49.9	4.0	45.0	41.1	Yes
BQ	Day						34.8	
BQ	Evening						34.8	
BQ	Night						34.7	
BR	Noise sensitive point: Norwegian - Yellow zone (370)	306,120	6,580,518	21.4	4.0	45.0	41.0	Yes
BR	Day						34.6	
BR	Evening						34.6	
BR	Night						34.6	
BS	Noise sensitive point: Norwegian - Yellow zone (371)	306,210	6,581,199	28.2	4.0	45.0	40.6	Yes
BS	Day						34.2	
BS	Evening						34.2	
BS	Night						34.2	
BT	Noise sensitive point: Norwegian - Yellow zone (372)	306,267	6,581,170	23.1	4.0	45.0	40.4	Yes
BT	Day						34.0	
BT	Evening						34.0	
BT	Night						34.0	
BU	Noise sensitive point: Norwegian - Yellow zone (373)	305,623	6,578,601	19.6	4.0	45.0	42.6	Yes
BU	Day						36.3	
BU	Evening						36.3	
BU	Night						36.2	
BV	Noise sensitive point: Norwegian - Yellow zone (374)	306,483	6,580,899	4.7	4.0	45.0	41.4	Yes
BV	Day						35.0	
BV	Evening						35.0	
BV	Night						35.0	
BW	Noise sensitive point: Norwegian - Yellow zone (375)	306,537	6,580,816	2.6	4.0	45.0	39.8	Yes
BW	Day						33.5	
BW	Evening						33.5	
BW	Night						33.4	
BX	Noise sensitive point: Norwegian - Yellow zone (376)	306,456	6,581,051	6.6	4.0	45.0	40.3	Yes
BX	Day						33.9	
BX	Evening						33.9	

To be continued on next page...

NORD2000 - Main Result

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

...continued from previous page

Noise sensitive area

No.	Name	Easting	Northing	Z	Imission height	Demands Noise	Sound level From WTGs	Demands fulfilled? Noise
				[m]	[m]	[dB(A)]	[dB(A)]	[dB(A)]
	BX Night						33.9	
	BY Noise sensitive point: Norwegian - Yellow zone (377)	306,432	6,581,132	14.3	4.0	45.0	40.4	Yes
	BY Day						34.0	
	BY Evening						34.0	
	BY Night						34.0	
	BZ Noise sensitive point: Norwegian - Yellow zone (378)	305,114	6,578,156	28.5	4.0	45.0	40.8	Yes
	BZ Day						35.1	
	BZ Evening						35.1	
	BZ Night						34.2	
	CA Noise sensitive point: Norwegian - Yellow zone (379)	305,173	6,578,252	36.8	4.0	45.0	40.3	Yes
	CA Day						34.4	
	CA Evening						34.4	
	CA Night						33.8	
	CB Noise sensitive point: Norwegian - Yellow zone (380)	303,549	6,576,179	13.6	4.0	45.0	39.4	Yes
	CB Day						33.9	
	CB Evening						33.9	
	CB Night						32.8	
	CC Noise sensitive point: Norwegian - Yellow zone (381)	304,314	6,576,932	37.5	4.0	45.0	44.3	Yes
	CC Day						39.3	
	CC Evening						39.3	
	CC Night						37.3	
	CD Noise sensitive point: Norwegian - Yellow zone (382)	304,518	6,577,201	32.2	4.0	45.0	42.6	Yes
	CD Day						37.9	
	CD Evening						37.9	
	CD Night						35.5	
	CE Noise sensitive point: Norwegian - Yellow zone (383)	303,184	6,576,228	5.0	4.0	45.0	36.7	Yes
	CE Day						31.3	
	CE Evening						31.3	
	CE Night						29.9	
	CF Noise sensitive point: Norwegian - Yellow zone (384)	303,469	6,576,305	10.1	4.0	45.0	39.5	Yes
	CF Day						34.1	
	CF Evening						34.1	
	CF Night						32.7	
	CG Noise sensitive point: Norwegian - Yellow zone (385)	303,169	6,576,276	8.0	4.0	45.0	38.3	Yes
	CG Day						32.7	
	CG Evening						32.7	
	CG Night						31.6	
	CH Noise sensitive point: Norwegian - Yellow zone (386)	303,577	6,576,257	16.2	4.0	45.0	39.2	Yes
	CH Day						33.9	
	CH Evening						33.9	
	CH Night						32.3	
	CI Noise sensitive point: Norwegian - Yellow zone (387)	303,059	6,576,901	15.1	4.0	45.0	42.8	Yes
	CI Day						37.2	
	CI Evening						37.2	
	CI Night						36.1	
	CJ Noise sensitive point: Norwegian - Yellow zone (388)	306,234	6,580,201	20.1	4.0	45.0	25.6	Yes
	CJ Day						19.2	
	CJ Evening						19.2	
	CJ Night						19.2	
	CK Noise sensitive point: Norwegian - Yellow zone (389)	304,468	6,576,910	16.1	4.0	45.0	44.1	Yes
	CK Day						38.8	
	CK Evening						38.8	
	CK Night						37.3	
	CL Noise sensitive point: Norwegian - Yellow zone (390)	304,155	6,576,682	37.4	4.0	45.0	41.0	Yes
	CL Day						35.8	
	CL Evening						35.8	
	CL Night						34.1	
	CM Noise sensitive point: Norwegian - Yellow zone (391)	304,362	6,576,737	16.1	4.0	45.0	41.5	Yes
	CM Day						36.1	
	CM Evening						36.1	
	CM Night						34.7	
	CN Noise sensitive point: Norwegian - Yellow zone (392)	305,824	6,579,068	21.2	4.0	45.0	42.9	Yes
	CN Day						36.5	

To be continued on next page...

NORD2000 - Main Result

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

...continued from previous page

Noise sensitive area

No.	Name	Easting	Northing	Z	Imission height	Demands Noise	Sound level From WTGs	Demands fulfilled? Noise
				[m]	[m]	[dB(A)]	[dB(A)]	[dB(A)]
	CN Evening						36.5	
	CN Night						36.4	
	CO Noise sensitive point: Norwegian - Yellow zone (393)	303,305	6,576,243	11.7	4.0	45.0	37.7	Yes
	CO Day						32.3	
	CO Evening						32.3	
	CO Night						30.9	
	CP Noise sensitive point: Norwegian - Yellow zone (394)	303,105	6,576,312	4.2	4.0	45.0	38.5	Yes
	CP Day						32.9	
	CP Evening						32.9	
	CP Night						31.8	
	CQ Noise sensitive point: Norwegian - Yellow zone (395)	303,373	6,576,142	6.4	4.0	45.0	37.2	Yes
	CQ Day						31.7	
	CQ Evening						31.7	
	CQ Night						30.5	
	CR Noise sensitive point: Norwegian - Yellow zone (396)	306,292	6,580,217	10.5	4.0	45.0	35.0	Yes
	CR Day						28.7	
	CR Evening						28.7	
	CR Night						28.6	
	CS Noise sensitive point: Norwegian - Yellow zone (397)	302,569	6,577,243	21.0	4.0	45.0	39.2	Yes
	CS Day						33.4	
	CS Evening						33.4	
	CS Night						32.5	
	CT Noise sensitive point: Norwegian - Yellow zone (398)	306,407	6,581,196	22.3	4.0	45.0	39.8	Yes
	CT Day						33.5	
	CT Evening						33.5	
	CT Night						33.4	
	CU Noise sensitive point: Norwegian - Yellow zone (399)	302,633	6,581,808	23.8	4.0	45.0	37.9	Yes
	CU Day						31.5	
	CU Evening						31.5	
	CU Night						31.5	
	CV Noise sensitive point: Norwegian - Yellow zone (400)	302,070	6,577,445	26.2	4.0	45.0	38.6	Yes
	CV Day						32.7	
	CV Evening						32.7	
	CV Night						32.0	
	CW Noise sensitive point: Norwegian - Yellow zone (401)	302,651	6,576,781	19.2	4.0	45.0	38.8	Yes
	CW Day						33.2	
	CW Evening						33.2	
	CW Night						32.2	
	CX Noise sensitive point: Norwegian - Yellow zone (402)	302,508	6,582,069	27.9	4.0	45.0	37.5	Yes
	CX Day						31.1	
	CX Evening						31.1	
	CX Night						31.1	
	CY Noise sensitive point: Norwegian - Yellow zone (403)	302,257	6,578,238	31.6	4.0	45.0	39.1	Yes
	CY Day						33.0	
	CY Evening						33.0	
	CY Night						32.6	
	CZ Noise sensitive point: Norwegian - Yellow zone (404)	302,719	6,576,059	6.6	4.0	45.0	36.3	Yes
	CZ Day						30.5	
	CZ Evening						30.5	
	CZ Night						29.7	
	DA Noise sensitive point: Norwegian - Yellow zone (405)	302,285	6,577,919	26.2	4.0	45.0	38.7	Yes
	DA Day						32.7	
	DA Evening						32.7	
	DA Night						32.2	
	DB Noise sensitive point: Norwegian - Yellow zone (406)	301,976	6,578,061	29.3	4.0	45.0	37.4	Yes
	DB Day						31.3	
	DB Evening						31.3	
	DB Night						31.0	
	DC Noise sensitive point: Norwegian - Yellow zone (407)	301,996	6,577,931	27.7	4.0	45.0	38.6	Yes
	DC Day						32.4	
	DC Evening						32.4	
	DC Night						32.1	
	DD Noise sensitive point: Norwegian - Yellow zone (408)	302,001	6,578,045	27.2	4.0	45.0	36.7	Yes

To be continued on next page...

NORD2000 - Main Result

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

...continued from previous page

Noise sensitive area

No.	Name	Easting	Northing	Z	Imission height	Demands Noise	Sound level From WTGs	Demands fulfilled? Noise
				[m]	[m]	[dB(A)]	[dB(A)]	[dB(A)]
DD	Day						30.7	
DD	Evening						30.7	
DD	Night						30.1	
DE	Noise sensitive point: Norwegian - Yellow zone (409)	302,871	6,576,242	12.2	4.0	45.0	36.5	Yes
DE	Day						30.8	
DE	Evening						30.8	
DE	Night						29.8	
DF	Noise sensitive point: Norwegian - Yellow zone (410)	302,944	6,576,312	17.3	4.0	45.0	37.3	Yes
DF	Day						31.6	
DF	Evening						31.6	
DF	Night						30.7	
DG	Noise sensitive point: Norwegian - Yellow zone (411)	301,990	6,577,859	31.3	4.0	45.0	39.1	Yes
DG	Day						33.0	
DG	Evening						33.0	
DG	Night						32.6	
DH	Noise sensitive point: Norwegian - Yellow zone (412)	302,798	6,576,057	7.3	4.0	45.0	36.9	Yes
DH	Day						31.2	
DH	Evening						31.2	
DH	Night						30.3	
DI	Noise sensitive point: Norwegian - Yellow zone (413)	303,122	6,576,138	0.4	4.0	45.0	37.0	Yes
DI	Day						31.5	
DI	Evening						31.5	
DI	Night						30.3	
DJ	Noise sensitive point: Norwegian - Yellow zone (414)	306,537	6,581,697	28.3	4.0	45.0	35.6	Yes
DJ	Day						29.3	
DJ	Evening						29.3	
DJ	Night						29.2	
DK	Noise sensitive point: Norwegian - Yellow zone (415)	306,420	6,581,716	37.6	4.0	45.0	33.2	Yes
DK	Day						26.8	
DK	Evening						26.8	
DK	Night						26.8	
DL	Noise sensitive point: Norwegian - Yellow zone (416)	302,846	6,576,212	8.5	4.0	45.0	36.4	Yes
DL	Day						31.0	
DL	Evening						31.0	
DL	Night						29.7	
DM	Noise sensitive point: Norwegian - Yellow zone (417)	303,109	6,575,978	4.5	4.0	45.0	35.6	Yes
DM	Day						30.2	
DM	Evening						30.2	
DM	Night						28.9	
DN	Noise sensitive point: Norwegian - Yellow zone (418)	303,576	6,575,847	12.4	4.0	45.0	37.9	Yes
DN	Day						32.4	
DN	Evening						32.4	
DN	Night						31.2	
DO	Noise sensitive point: Norwegian - Yellow zone (419)	303,178	6,582,088	22.8	4.0	45.0	37.9	Yes
DO	Day						31.5	
DO	Evening						31.5	
DO	Night						31.5	
DP	Noise sensitive point: Norwegian - Yellow zone (420)	303,431	6,575,976	9.5	4.0	45.0	36.5	Yes
DP	Day						31.2	
DP	Evening						31.2	
DP	Night						29.7	
DQ	Noise sensitive point: Norwegian - Yellow zone (421)	302,972	6,576,322	12.4	4.0	45.0	36.6	Yes
DQ	Day						31.0	
DQ	Evening						31.0	
DQ	Night						29.9	
DR	Noise sensitive point: Norwegian - Yellow zone (422)	302,057	6,577,852	25.0	4.0	45.0	38.7	Yes
DR	Day						32.5	
DR	Evening						32.5	
DR	Night						32.2	
DS	Noise sensitive point: Norwegian - Yellow zone (423)	302,252	6,578,552	25.8	4.0	45.0	38.7	Yes
DS	Day						32.5	
DS	Evening						32.5	
DS	Night						32.2	

To be continued on next page...

NORD2000 - Main Result

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

...continued from previous page

Noise sensitive area

No.	Name	Easting	Northing	Z	Imission height	Demands Noise	Sound level From WTGs	Demands fulfilled? Noise
				[m]	[m]	[dB(A)]	[dB(A)]	[dB(A)]
DT	Noise sensitive point: Norwegian - Yellow zone (424)	302,930	6,576,276	11.0	4.0	45.0	37.2	Yes
DT	Day						31.5	
DT	Evening						31.5	
DT	Night						30.6	
DU	Noise sensitive point: Norwegian - Yellow zone (425)	306,362	6,581,320	29.1	4.0	45.0	41.3	Yes
DU	Day						35.0	
DU	Evening						35.0	
DU	Night						34.9	
DV	Noise sensitive point: Norwegian - Yellow zone (426)	306,368	6,581,852	35.3	4.0	45.0	23.8	Yes
DV	Day						17.4	
DV	Evening						17.4	
DV	Night						17.4	
DW	Noise sensitive point: Norwegian - Yellow zone (427)	302,036	6,577,342	27.4	4.0	45.0	37.5	Yes
DW	Day						31.5	
DW	Evening						31.5	
DW	Night						31.0	
DX	Noise sensitive point: Norwegian - Yellow zone (428)	303,297	6,575,691	8.3	4.0	45.0	35.2	Yes
DX	Day						29.8	
DX	Evening						29.8	
DX	Night						28.4	
DY	Noise sensitive point: Norwegian - Yellow zone (429)	306,749	6,581,266	16.6	4.0	45.0	39.0	Yes
DY	Day						32.6	
DY	Evening						32.6	
DY	Night						32.6	
DZ	Noise sensitive point: Norwegian - Yellow zone (430)	302,257	6,577,102	23.7	4.0	45.0	38.9	Yes
DZ	Day						33.1	
DZ	Evening						33.1	
DZ	Night						32.3	
EA	Noise sensitive point: Norwegian - Yellow zone (431)	301,964	6,577,761	29.3	4.0	45.0	39.2	Yes
EA	Day						33.3	
EA	Evening						33.3	
EA	Night						32.7	
EB	Noise sensitive point: Norwegian - Yellow zone (432)	303,297	6,575,922	5.1	4.0	45.0	35.7	Yes
EB	Day						30.4	
EB	Evening						30.4	
EB	Night						28.9	
EC	Noise sensitive point: Norwegian - Yellow zone (433)	306,536	6,581,176	20.2	4.0	45.0	40.9	Yes
EC	Day						34.5	
EC	Evening						34.5	
EC	Night						34.5	
ED	Noise sensitive point: Norwegian - Yellow zone (434)	303,234	6,582,324	26.9	4.0	45.0	38.3	Yes
ED	Day						32.0	
ED	Evening						32.0	
ED	Night						31.9	
EE	Noise sensitive point: Norwegian - Yellow zone (435)	303,344	6,575,942	7.7	4.0	45.0	36.4	Yes
EE	Day						31.0	
EE	Evening						31.0	
EE	Night						29.7	
EF	Noise sensitive point: Norwegian - Yellow zone (436)	303,329	6,575,800	0.9	4.0	45.0	37.5	Yes
EF	Day						32.1	
EF	Evening						32.1	
EF	Night						30.8	
EG	Noise sensitive point: Norwegian - Yellow zone (437)	301,978	6,577,979	31.3	4.0	45.0	37.6	Yes
EG	Day						31.5	
EG	Evening						31.5	
EG	Night						31.1	
EH	Noise sensitive point: Norwegian - Yellow zone (438)	303,273	6,582,158	33.0	4.0	45.0	36.3	Yes
EH	Day						30.0	
EH	Evening						30.0	
EH	Night						29.9	
EI	Noise sensitive point: Norwegian - Yellow zone (439)	303,254	6,582,262	27.8	4.0	45.0	38.6	Yes
EI	Day						32.2	
EI	Evening						32.2	

To be continued on next page...

NORD2000 - Main Result**Calculation:** 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

...continued from previous page

Noise sensitive area

No.	Name	Easting	Northing	Z	Imission height	Demands Noise	Sound level From WTGs	Demands fulfilled? Noise
				[m]	[m]	[dB(A)]	[dB(A)]	[dB(A)]
EI	Night						32.2	
EJ	Noise sensitive point: Norwegian - Yellow zone (440)	302,754	6,582,121	31.9	4.0	45.0	38.2	Yes
EJ	Day						31.9	
EJ	Evening						31.9	
EJ	Night						31.8	
EK	Noise sensitive point: Norwegian - Yellow zone (441)	303,611	6,582,301	31.6	4.0	45.0	39.3	Yes
EK	Day						33.0	
EK	Evening						33.0	
EK	Night						32.9	

Project:

Tysvaer

Licensed user:

Meventus AS

Kongsgård Allé 59

NO-4632 Kristiansand

+47 3860 7115

Kyle Brennan / kyle@meventus.com

Calculated:

24.09.2019 15:42/3.2.744

NORD2000 - Assumptions for NORD2000 calculation

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

Assumptions

Weather stability	
Relative humidity	70.0 %
Air temperature	6.5 °C
Height for air temperature	2.0 m
Stability parameters	Night; Clear sky
Inverse Monin Obukhov length	0.0100
Temperature scale T*	0.0500

Terrain

Elevation based on object

Height_DTM

Roughness based on area object

Roughness_N50

Terrain type based on area object

Terrain Hardness (N50)

Month for calculation

January

Wind speed criteria

Uniform wind speed at 10 m agl.

Wind speed

Max noise wind speed

Max noise wind speed

All receptors downwind

Wind direction

4.0 m

Height above ground level for receiver

Wind speed has been extrapolated to calculation height using

IEC profile shear ($z_0 = 0.05\text{m}$)

No stability correction

5.022

Version

All coordinates are in

UTM (north)-WGS84 Zone: 32

Setup for Lden calculation

Variant	Name	From hour	To hour	Hours	Penalty [dB]	Days per year
1	Day	7	19	12	0	365
2	Evening	19	23	4	5	365
3	Night	23	7	8	10	365

NORD2000 - Assumptions for NORD2000 calculation

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

WTG: Siemens SWT-DD-130 Wood 4300 130.0 !O!

Noise: Mode 2 - Calculated - 105.0 dB - 04.2019

Source Source/Date Creator Edited
 Manufacturer 02.06.2019 USER 02.06.2019 21:33
 Standard Acoustic Emission, SWT-DD-130, Rev. 2
 Document ID:SGRE ON TE SYSE-DK LACS SA-40--036AA88-00
 2019.04.11

Octave data

Wind speed	LwA,ref	63	125	250	500	1000	2000	4000	8000
[m/s]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]
5.0	95.3	74.0	82.2	83.2	85.9	88.5	90.6	88.2	76.4
6.0	98.5	77.2	85.4	86.3	89.1	91.7	93.8	91.4	79.6
7.0	102.2	80.9	89.2	90.1	92.8	95.5	97.5	95.1	83.4
8.0	104.1	85.0	91.0	92.0	94.7	97.5	99.3	97.0	85.9
9.0	105.0	88.0	91.8	92.9	95.6	98.4	100.1	97.9	87.6
10.0	105.0	87.8	91.6	93.0	95.5	98.2	100.1	98.0	88.6
11.0	105.0	88.1	92.3	93.5	95.7	98.2	100.0	97.8	88.5
12.0	105.0	88.4	93.0	93.9	95.8	98.3	99.9	97.5	88.2
13.0	105.0	88.3	93.3	94.0	95.9	98.4	99.8	97.2	88.1
14.0	105.0	88.3	93.3	94.0	95.9	98.4	99.8	97.2	88.1
15.0	105.0	88.3	93.3	94.0	95.9	98.4	99.8	97.2	88.1
16.0	105.0	88.3	93.3	94.0	95.9	98.4	99.8	97.2	88.1
17.0	105.0	88.3	93.3	94.0	95.9	98.4	99.8	97.2	88.1

WTG: Siemens SWT-DD-130 Wood 4300 130.0 !O!

Noise: Mode 6 - Calculated - 100.0 dB - 04.2019

Source Source/Date Creator Edited
 Manufacturer 02.06.2019 USER 02.06.2019 21:33
 Standard Acoustic Emission, SWT-DD-130, Rev. 2
 Document ID:SGRE ON TE SYSE-DK LACS SA-40--036AA88-00
 2019.04.11

Octave data

Wind speed	LwA,ref	63	125	250	500	1000	2000	4000	8000
[m/s]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]
5.0	95.3	77.3	81.7	84.4	85.6	88.6	90.7	87.6	76.4
6.0	98.0	80.1	84.5	87.1	88.4	91.3	93.5	90.4	79.2
7.0	99.6	81.7	86.0	88.7	89.9	92.9	95.0	92.0	80.7
8.0	100.0	82.3	86.4	89.1	90.5	93.4	95.5	92.1	80.8
9.0	100.0	82.5	86.3	88.9	90.9	93.6	95.5	91.7	80.4
10.0	100.0	83.0	85.8	88.3	91.6	93.9	95.3	91.3	80.0
11.0	100.0	83.2	85.6	88.2	91.8	94.1	95.1	90.9	79.7
12.0	100.0	83.1	85.6	88.1	92.0	94.4	94.9	90.6	79.4
13.0	100.0	82.7	85.8	88.0	92.3	94.6	94.8	90.2	79.1
14.0	100.0	82.7	85.8	88.0	92.3	94.6	94.8	90.2	79.1
15.0	100.0	82.7	85.8	88.0	92.3	94.6	94.8	90.2	79.1
16.0	100.0	82.7	85.8	88.0	92.3	94.6	94.8	90.2	79.1
17.0	100.0	82.7	85.8	88.0	92.3	94.6	94.8	90.2	79.1

NORD2000 - Assumptions for NORD2000 calculation**Calculation:** 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail**WTG:** Siemens SWT-DD-130 Wood 4300 130.0 !O!**Noise:** Mode 1 - Calculated - Std. 106.0 dB - 04.2019

Source Source/Date Creator Edited
 Manufacturer 02.06.2019 USER 14.06.2019 10:46
 Standard Acoustic Emission, SWT-DD-130, Rev. 2
 Document ID:SGRE ON TE SYSE-DK LACS SA-40--036AA88-00
 2019.04.11

Octave data

Wind speed	LwA,ref	63	125	250	500	1000	2000	4000	8000
[m/s]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]
5.0	95.3	73.8	81.7	84.3	86.6	88.9	90.0	88.0	78.7
6.0	98.4	77.0	84.8	87.5	89.7	92.0	93.1	91.2	81.8
7.0	102.2	80.7	88.6	91.2	93.5	95.8	96.9	94.9	85.6
8.0	104.6	84.9	90.9	93.4	95.9	98.3	99.4	97.2	88.0
9.0	106.0	88.0	91.9	94.6	97.3	99.9	100.8	98.3	89.2
10.0	106.0	87.7	91.2	94.7	97.5	100.2	100.8	98.0	88.9
11.0	106.0	89.1	92.4	94.7	97.4	100.2	100.7	97.6	88.4
12.0	106.0	90.3	93.7	94.7	97.3	100.2	100.6	97.3	87.6
13.0	106.0	90.7	94.4	94.7	97.4	100.2	100.7	97.0	86.2
14.0	106.0	90.7	94.5	94.7	97.4	100.2	100.7	97.0	86.1
15.0	106.0	90.7	94.5	94.7	97.4	100.2	100.7	97.0	86.1
16.0	106.0	90.7	94.5	94.7	97.4	100.2	100.7	97.0	86.1
17.0	106.0	90.7	94.5	94.7	97.4	100.2	100.7	97.0	86.1

NORD2000 - Assumptions for NORD2000 calculation

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

WTG: Siemens SWT-DD-130 Wood 4300 130.0 !O!

Noise: Mode 1 - Calculated - Std. 106.0 dB - 04.2019

Source Source/Date Creator Edited
 Manufacturer 02.06.2019 USER 14.06.2019 10:46
 Standard Acoustic Emission, SWT-DD-130, Rev. 2
 Document ID:SGRE ON TE SYSE-DK LACS SA-40--036AA88-00
 2019.04.11

Octave data

Wind speed	LwA,ref	63	125	250	500	1000	2000	4000	8000
[m/s]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]
5.0	95.3	73.8	81.7	84.3	86.6	88.9	90.0	88.0	78.7
6.0	98.4	77.0	84.8	87.5	89.7	92.0	93.1	91.2	81.8
7.0	102.2	80.7	88.6	91.2	93.5	95.8	96.9	94.9	85.6
8.0	104.6	84.9	90.9	93.4	95.9	98.3	99.4	97.2	88.0
9.0	106.0	88.0	91.9	94.6	97.3	99.9	100.8	98.3	89.2
10.0	106.0	87.7	91.2	94.7	97.5	100.2	100.8	98.0	88.9
11.0	106.0	89.1	92.4	94.7	97.4	100.2	100.7	97.6	88.4
12.0	106.0	90.3	93.7	94.7	97.3	100.2	100.6	97.3	87.6
13.0	106.0	90.7	94.4	94.7	97.4	100.2	100.7	97.0	86.2
14.0	106.0	90.7	94.5	94.7	97.4	100.2	100.7	97.0	86.1
15.0	106.0	90.7	94.5	94.7	97.4	100.2	100.7	97.0	86.1
16.0	106.0	90.7	94.5	94.7	97.4	100.2	100.7	97.0	86.1
17.0	106.0	90.7	94.5	94.7	97.4	100.2	100.7	97.0	86.1

NSA: Noise sensitive point: Norwegian - Yellow zone (297)-A

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (298)-B

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (299)-C

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (300)-D

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (301)-D2

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (302)-D3

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (303)-E

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NORD2000 - Assumptions for NORD2000 calculation

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

NSA: Noise sensitive point: Norwegian - Yellow zone (304)-E2

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (305)-F

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (306)-G

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (307)-G2

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (308)-H

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (309)-I

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (310)-J

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (311)-K

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (312)-L

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (313)-M

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (314)-N

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NORD2000 - Assumptions for NORD2000 calculation

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

NSA: Noise sensitive point: Norwegian - Yellow zone (315)-O

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (316)-P

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (317)-Q

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (318)-R

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (319)-S

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (320)-T

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (321)-U

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (322)-V

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (323)-W

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (324)-X

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (325)-Y

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NORD2000 - Assumptions for NORD2000 calculation

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

NSA: Noise sensitive point: Norwegian - Yellow zone (326)-Z

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (327)-AA

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (328)-AB

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (329)-AC

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (330)-AD

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (331)-AE

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (332)-AF

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (333)-AG

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (334)-AH

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (335)-AI

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (336)-AJ

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NORD2000 - Assumptions for NORD2000 calculation

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

NSA: Noise sensitive point: Norwegian - Yellow zone (337)-AK

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (338)-AL

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (339)-AM

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (340)-AN

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (341)-AO

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (342)-AP

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (343)-AQ

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (344)-AR

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (345)-AS

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (346)-AT

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (347)-AU

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NORD2000 - Assumptions for NORD2000 calculation

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

NSA: Noise sensitive point: Norwegian - Yellow zone (348)-AV

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (349)-AW

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (350)-AX

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (351)-AY

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (352)-AZ

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (353)-BA

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (354)-BB

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (355)-BC

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (356)-BD

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (357)-BE

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (358)-BF

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NORD2000 - Assumptions for NORD2000 calculation

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

NSA: Noise sensitive point: Norwegian - Yellow zone (359)-BG

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (360)-BH

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (361)-BI

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (362)-BJ

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (363)-BK

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (364)-BL

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (365)-BM

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (366)-BN

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (367)-BO

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (368)-BP

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (369)-BQ

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NORD2000 - Assumptions for NORD2000 calculation

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

NSA: Noise sensitive point: Norwegian - Yellow zone (370)-BR

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (371)-BS

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (372)-BT

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (373)-BU

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (374)-BV

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (375)-BW

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (376)-BX

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (377)-BY

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (378)-BZ

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (379)-CA

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (380)-CB

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NORD2000 - Assumptions for NORD2000 calculation

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

NSA: Noise sensitive point: Norwegian - Yellow zone (381)-CC

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (382)-CD

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (383)-CE

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (384)-CF

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (385)-CG

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (386)-CH

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (387)-CI

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (388)-CJ

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (389)-CK

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (390)-CL

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (391)-CM

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NORD2000 - Assumptions for NORD2000 calculation

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

NSA: Noise sensitive point: Norwegian - Yellow zone (392)-CN

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (393)-CO

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (394)-CP

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (395)-CQ

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (396)-CR

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (397)-CS

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (398)-CT

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (399)-CU

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (400)-CV

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (401)-CW

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (402)-CX

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NORD2000 - Assumptions for NORD2000 calculation

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

NSA: Noise sensitive point: Norwegian - Yellow zone (403)-CY

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (404)-CZ

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (405)-DA

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (406)-DB

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (407)-DC

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (408)-DD

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (409)-DE

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (410)-DF

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (411)-DG

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (412)-DH

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (413)-DI

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NORD2000 - Assumptions for NORD2000 calculation

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

NSA: Noise sensitive point: Norwegian - Yellow zone (414)-DJ

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (415)-DK

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (416)-DL

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (417)-DM

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (418)-DN

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (419)-DO

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (420)-DP

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (421)-DQ

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (422)-DR

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (423)-DS

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (424)-DT

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NORD2000 - Assumptions for NORD2000 calculation

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail

NSA: Noise sensitive point: Norwegian - Yellow zone (425)-DU

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (426)-DV

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (427)-DW

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (428)-DX

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (429)-DY

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (430)-DZ

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (431)-EA

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (432)-EB

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (433)-EC

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (434)-ED

Predefined calculation standard: Yellow zone

Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NSA: Noise sensitive point: Norwegian - Yellow zone (435)-EE

Predefined calculation standard: Yellow zone

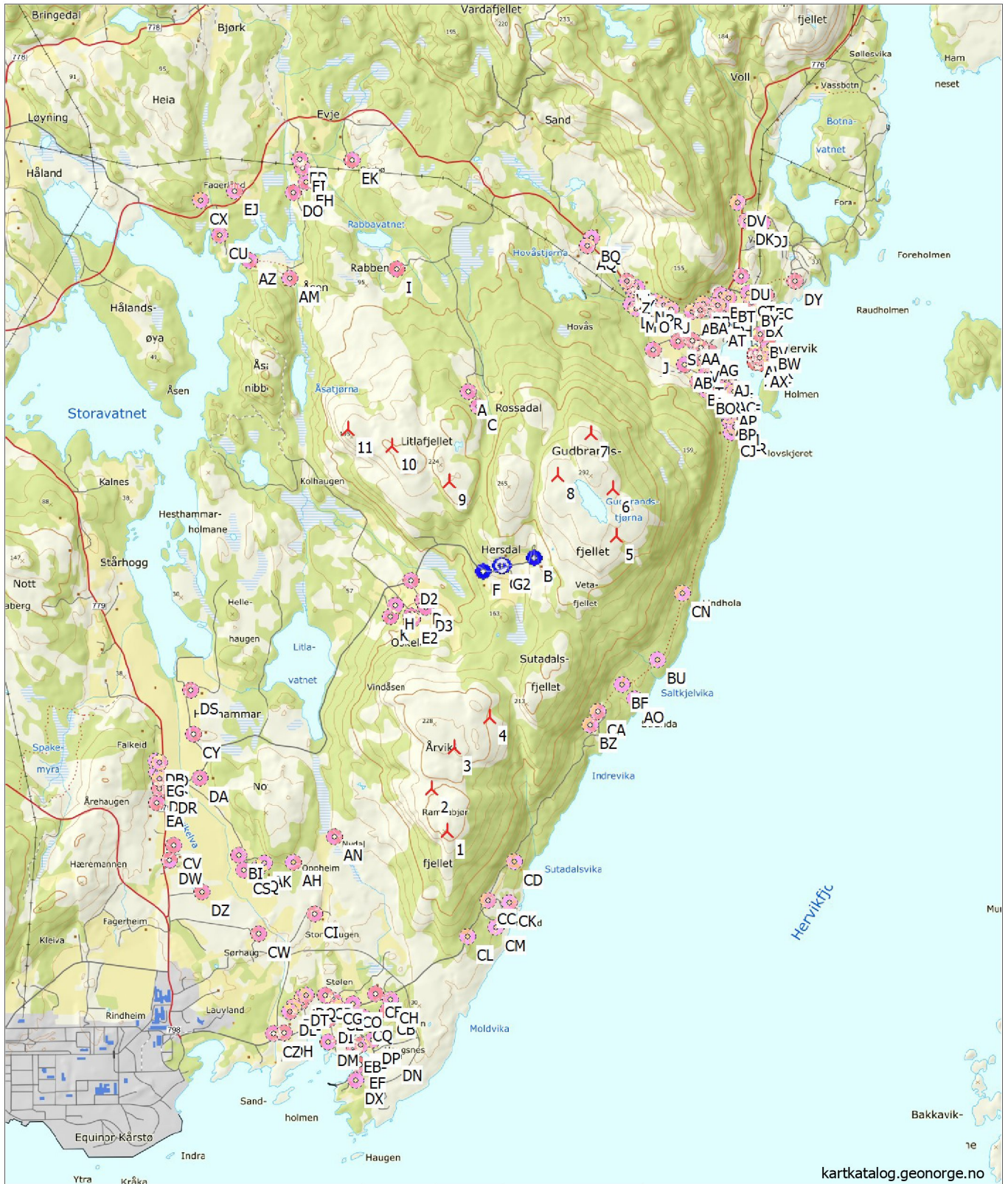
Imission height(a.g.l.): Use standard value from calculation model

Distance demand: 0.0 m

NORD2000 - Assumptions for NORD2000 calculation**Calculation:** 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail**NSA:** Noise sensitive point: Norwegian - Yellow zone (436)-EF**Predefined calculation standard:** Yellow zone**Emission height(a.g.l.):** Use standard value from calculation model**Distance demand:** 0.0 m**NSA:** Noise sensitive point: Norwegian - Yellow zone (437)-EG**Predefined calculation standard:** Yellow zone**Emission height(a.g.l.):** Use standard value from calculation model**Distance demand:** 0.0 m**NSA:** Noise sensitive point: Norwegian - Yellow zone (438)-EH**Predefined calculation standard:** Yellow zone**Emission height(a.g.l.):** Use standard value from calculation model**Distance demand:** 0.0 m**NSA:** Noise sensitive point: Norwegian - Yellow zone (439)-EI**Predefined calculation standard:** Yellow zone**Emission height(a.g.l.):** Use standard value from calculation model**Distance demand:** 0.0 m**NSA:** Noise sensitive point: Norwegian - Yellow zone (440)-EJ**Predefined calculation standard:** Yellow zone**Emission height(a.g.l.):** Use standard value from calculation model**Distance demand:** 0.0 m**NSA:** Noise sensitive point: Norwegian - Yellow zone (441)-EK**Predefined calculation standard:** Yellow zone**Emission height(a.g.l.):** Use standard value from calculation model**Distance demand:** 0.0 m

NORD2000 -

Calculation: 201909_Tysvaer_11xS130_4.3MW_85mHH_wc_2km-Neigh_L01 w Curtail



Map: Topografisk norgeskart, Print scale 1:40,000, Map center UTM (north)-WGS84 Zone: 32 East: 304,357 North: 6,579,007
 New WTG Noise sensitive area