

Report (sample calc 1 turbines 1 receptor.cna)

CALCULATION CONFIGURATION

Configuration	
Parameter	Value
General	
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (m)	5000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (m)	1000.00
Min. Length of Section (m)	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	6.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	200.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	0
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rcvr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (°C)	10
rel. Humidity (%)	70
Ground Absorption G	0.70
Wind Speed for Dir. (m/s)	3.0
Roads (RLS-90)	
Strictly acc. to RLS-90	
Railways (Schall 03)	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

NOISE SOURCES

Noise Source Library

Name	ID	Type	Oktave Spectrum (dB)											Source	
			Weight.	31.5	63	125	250	500	1000	2000	4000	8000	A		lin
capital vestas v90	vestas	Lw		0.0	111.3	105.9	100.6	97.7	97.5	95.5	96.2	91.5	103.5	113.1	
transformer surface intensity	transformer	Li		84.4	82.6	86.2	84.2	77.0	70.2	66.9	58.6	49.8	79.5	90.8	
nextera siemens	siemens6	Lw		0.0	108.8	109.9	105.5	102.7	99.6	95.9	88.3	86.0	105.0	113.8	
nextera siemens	siemens7	Lw		0.0	108.7	109.5	105.0	102.9	99.9	95.6	88.5	86.4	105.0	113.6	
nextera siemens	siemens8	Lw		0.0	108.6	109.1	104.6	103.0	100.1	95.3	88.6	86.8	105.0	113.4	
nextera siemens	siemens93_6	Lw		0.0	110.9	111.0	109.1	101.7	94.7	91.6	87.2	82.3	104.4	115.4	siemens data received sep 27 1:30
nextera siemens	siemens93_7	Lw		0.0	111.3	110.5	108.4	102.1	95.9	92.0	87.6	84.6	104.4	115.3	siemens data received sep 27 1:30
nextera siemens	siemens93_8	Lw		0.0	111.7	110.0	107.7	102.4	96.9	92.3	88.0	86.5	104.4	115.2	siemens data received sep 27 1:30

Point Source(s)

Name	M.	ID	Result. PWL			Lw / Li		Correction				Sound Reduction		Attenuation			Operating Time			K0	Freq. (Hz)	Direct.	Height (m)	Coordinates		
			Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R	Area (m²)	Day (min)	Special (min)	Night (min)	X (m)	Y (m)	Z (m)							
17		nextera6	105.0	105.0	105.0	Lw	siemens6		0.0	0.0	0.0							0.0		(none)	80.00	r	582468.00	4747896.00	285.00	
17	~	nextera7	105.0	105.0	105.0	Lw	siemens7		0.0	0.0	0.0							0.0		(none)	80.00	r	582468.00	4747896.00	285.00	
17	~	nextera8	105.0	105.0	105.0	Lw	siemens8		0.0	0.0	0.0							0.0		(none)	80.00	r	582468.00	4747896.00	285.00	

Area Source(s)

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction		Attenuation			Operating Time			K0	Freq. (Hz)	Direct.	Moving Pt. Src Number		
			Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R	Area (m²)	Day (min)	Special (min)	Night (min)	(dB)	(Hz)	Day				Evening	Night	
Transformer top surface		nextera1	86.9	86.9	86.9	67.5	67.5	67.5	Lw"	transformer		-12.0	-12.0	-12.0								0.0	(none)					
capital transformer	~	capital	86.9	86.9	86.9	67.5	67.5	67.5	Lw"	transformer		-12.0	-12.0	-12.0								0.0	(none)					
Transformer top surface	~	nextera2	86.9	86.9	86.9	67.5	67.5	67.5	Lw"	transformer		-12.0	-12.0	-12.0								0.0	(none)					

Area Source(s) Geometry

Name	Height		Coordinates			
	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)
Transformer top surface	7.05	r	582611.88	4747542.49	212.05	205.00
			582619.80	4747542.49	212.05	205.00
			582619.80	4747531.52	212.05	205.00
			582611.88	4747531.52	212.05	205.00
capital transformer	7.05	r	576101.04	4746499.49	209.28	202.23
			576108.96	4746499.49	209.38	202.33
			576108.96	4746488.52	209.43	202.38
			576101.04	4746488.52	209.32	202.27
Transformer top surface	7.05	r	577833.05	4745710.48	207.05	200.00
			577840.97	4745710.48	207.05	200.00
			577840.97	4745699.51	207.05	200.00
			577833.05	4745699.51	207.05	200.00

Vertical Area Source(s)

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night			
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)										(min)	(min)	(min)			
Transformer west surface		nextera1	86.3	86.3	86.3	67.5	67.5	67.5	Lw"	transformer		-12.0	-12.0	-12.0								0.0	(none)
transformer north surface		nextera1	84.9	84.9	84.9	67.5	67.5	67.5	Lw"	transformer		-12.0	-12.0	-12.0								0.0	(none)
transformer east		nextera1	86.3	86.3	86.3	67.5	67.5	67.5	Lw"	transformer		-12.0	-12.0	-12.0								0.0	(none)
transformer south		nextera1	84.9	84.9	84.9	67.5	67.5	67.5	Lw"	transformer		-12.0	-12.0	-12.0								0.0	(none)
capital	~	capital	86.3	86.3	86.3	67.5	67.5	67.5	Lw"	transformer		-12.0	-12.0	-12.0								0.0	(none)
capital	~	capital	84.9	84.9	84.9	67.5	67.5	67.5	Lw"	transformer		-12.0	-12.0	-12.0								0.0	(none)
capital	~	capital	86.3	86.3	86.3	67.5	67.5	67.5	Lw"	transformer		-12.0	-12.0	-12.0								0.0	(none)
capital	~	capital	84.9	84.9	84.9	67.5	67.5	67.5	Lw"	transformer		-12.0	-12.0	-12.0								0.0	(none)
Transformer west surface	~	nextera2	86.3	86.3	86.3	67.5	67.5	67.5	Lw"	transformer		-12.0	-12.0	-12.0								0.0	(none)
transformer north surface	~	nextera2	84.9	84.9	84.9	67.5	67.5	67.5	Lw"	transformer		-12.0	-12.0	-12.0								0.0	(none)
transformer east	~	nextera2	86.3	86.3	86.3	67.5	67.5	67.5	Lw"	transformer		-12.0	-12.0	-12.0								0.0	(none)
transformer south	~	nextera2	84.9	84.9	84.9	67.5	67.5	67.5	Lw"	transformer		-12.0	-12.0	-12.0								0.0	(none)

Vertical Area Source(s) Geometry

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)
Transformer west surface	7.00	r	582611.83	4747542.49	212.00	205.00
			582611.83	4747531.52	212.00	205.00
transformer north surface	7.00	r	582611.88	4747542.54	212.00	205.00
			582619.80	4747542.54	212.00	205.00
transformer east	7.00	r	582619.85	4747542.49	212.00	205.00
			582619.85	4747531.52	212.00	205.00
transformer south	7.00	r	582619.80	4747531.47	212.00	205.00
			582611.88	4747531.47	212.00	205.00
capital	7.00	r	576100.99	4746499.49	209.23	202.23
			576100.99	4746488.52	209.27	202.27
capital	7.00	r	576101.04	4746499.54	209.23	202.23
			576108.96	4746499.54	209.33	202.33
capital	7.00	r	576109.01	4746499.49	209.33	202.33
			576109.01	4746488.52	209.38	202.38
capital	7.00	r	576108.96	4746488.47	209.38	202.38
			576101.04	4746488.47	209.27	202.27
Transformer west surface	7.00	r	577833.00	4745710.48	207.00	200.00
			577833.00	4745699.51	207.00	200.00
transformer north surface	7.00	r	577833.05	4745710.53	207.00	200.00
			577840.97	4745710.53	207.00	200.00
transformer east	7.00	r	577841.02	4745710.48	207.00	200.00
			577841.02	4745699.51	207.00	200.00
transformer south	7.00	r	577840.97	4745699.46	207.00	200.00
			577833.05	4745699.46	207.00	200.00

BUILDING(S)

Building(s)

Name	M.	ID	RB	Residents	Absorption	Height
						Begin
						(m)
		nextera1	x	0		7.00
		~ capital	x	0		7.00
		~ nextera2	x	0		7.00

Building(s) Geometry

Name	M.	ID	RB	Residents	Absorption	Height	Coordinates				
							Begin (m)	x (m)	y (m)	z (m)	Ground (m)
		nextera1	x	0		7.00	r	582611.88	4747542.49	212.00	205.00
								582619.80	4747542.49	212.00	205.00
								582619.80	4747531.52	212.00	205.00
								582611.88	4747531.52	212.00	205.00
	~	capital	x	0		7.00	r	576101.04	4746499.49	209.23	202.23
								576108.96	4746499.49	209.23	202.33
								576108.96	4746488.52	209.23	202.38
								576101.04	4746488.52	209.23	202.27
	~	nextera2	x	0		7.00	r	577833.05	4745710.48	207.00	200.00
								577840.97	4745710.48	207.00	200.00
								577840.97	4745699.51	207.00	200.00
								577833.05	4745699.51	207.00	200.00

GROUND ABSORPTION

Ground Absorption Area(s)

Name	M.	ID	G
700001		nextera1	0.0
700001	~	capital	0.0
700001	~	nextera2	0.0

Ground Absorption Area(s) Geometry

Name	M.	ID	G	Coordinates	
				x (m)	y (m)
700001		nextera1	0.0	582575.37	4747496.73
				582575.37	4747577.28
				582656.30	4747577.28
				582656.30	4747496.73
700001	~	capital	0.0	576064.53	4746453.73
				576064.53	4746534.28
				576145.46	4746534.28
				576145.46	4746453.73
700001	~	nextera2	0.0	577796.54	4745664.72
				577796.54	4745745.27
				577877.47	4745745.27
				577877.47	4745664.72

RESULTS

Result Table

Receiver		Land Use	Limiting Value		rel. Axis			Lr w/o Noise Control		dL req.		Lr w/ Noise Control		Exceeding		passive NC
Name	ID		Day	Night	Station	Distance	Height	Day	Night	Day	Night	Day	Night	Day	Night	dB(A)
			dB(A)	dB(A)	m	m	m	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
VPOR	VPOR0032		40	40				34.5	34.5	-	-	34.6	34.6	-	-	-