

How to calculate turbine sound model

Tutorial Summary:

Learn how to calculate estimated turbine sound at each specified zone.

1) Import turbine sites

- Go to 'Input tab'
 - Click 'Import' under Turbine Sites
 - .CSV file: Turbine Name, Latitude, Longitude

	A	B	C
1	1	26.3207	-103.488
2	2	26.32041	-103.485
3	3	26.32126	-103.48
4	4	26.32108	-103.476
5	5	26.32202	-103.472
6	6	26.32626	-103.492
7	7	26.3268	-103.49

2) Import power curve

- Go to 'Site Suitability' tab
 - Click 'Import Power Curve'
 - .CSV file
 - Name
 - Wind speed, Power, Thrust

	A	B	C
1	Test_Turbine		
2	3	0	0
3	3.5	26.46	0.9024
4	4	62.72	0.85056
5	4.5	106.82	0.81312
6	5	158.76	0.792
7	5.5	222.46	0.78912
8	6	297.92	0.792
9	6.5	387.1	0.79296
10	7	491.96	0.79392
11	7.5	609.56	0.79008

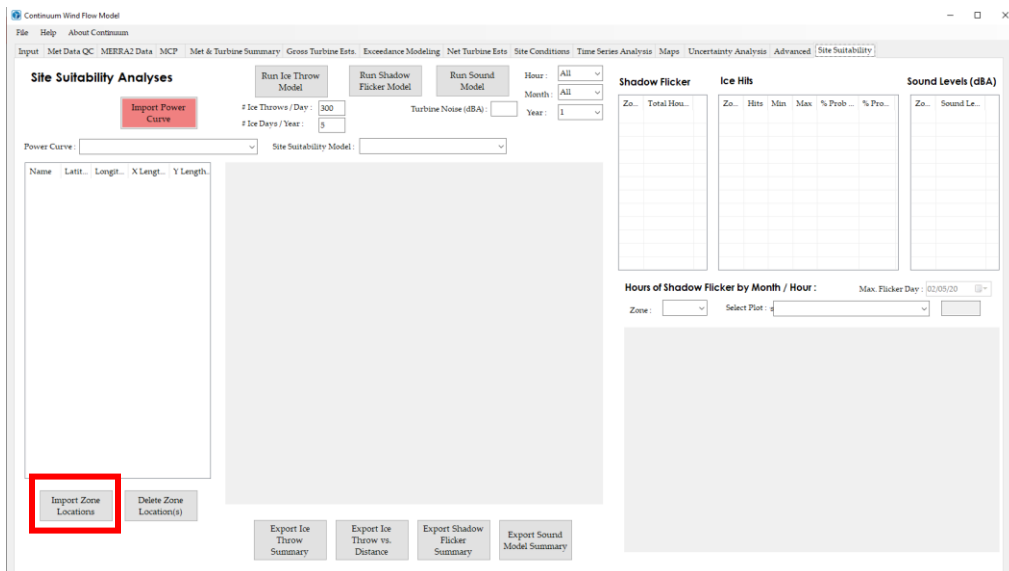
3) Import zone locations

- Specify latitude, longitude, size (E-W), size (N-S) in .csv file as shown below:

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	A	B	C	D	E	F
1	Z1	49.56952	-117.526	10	15	
2	Z2	49.56856	-117.531	20	20	
3	Z3	49.57949	-117.535	25	10	
4	Z4	49.57474	-117.553	5	15	
5	Z5	49.57373	-117.577	10	15	
6	Z6	49.57356	-117.574	25	20	

- Go to 'Site Suitability' tab, click 'Import Zone Locations'



4) Calculate turbine sound at each zone

- Adjust turbine sound level
 - Default is 100 dBA
- Click 'Run Sound Model'

