

Development.

NET 12/24 → Best turbine of model.

19/12/24

Wind Poo (Nicolai)→ Noise emission

- 1.7 Shadow reflector → Only noise emission point in case → Only x, y co-ordinates → paste object directly → click on shadow reflector → OK.
- select object (shadow reflector) → Drag & Drop to assigned ~~the~~ NFA letter
- ~~parameters~~ → edit shadow →

Real case based on ~~data~~

- Envision → shadow → flicker at receptors → worst case flicker max → worst case → wires → select wires → reflector → shadow reflector → Real case statistics → ~~CRAS~~ → ~~CRAS~~ → selecting → flicker max → select area → OK.
- 20 hrs / year / 30 min/day threshold → not allowed to be exceeded as per guidelines.

- click on shadow flicker → flicker control/matrix → controlment by storing turbines → flicker type → worst → shadow limiters → in total it should be less than 20 hrs/year → OK → calculates.

- Envis → plot → Time varying based on data & naming set up → show result with explanation → wires → select wires → creating & set up → give data object → make → power zone → mixed demand → controlment → power connection → OK.



## Loss & Manipulation

Load data from wake calculation → Select 1st Port Result  
 → Data from meter abstract → MCP → OK → Port → Select  
 wires → loss → gap 6 → picker check the box → edit  
 shadow calculation → OK → steering any green → cross → color.

break

bat → 4/3 to 9/30 / 1 meter sunset / 1 hour after sunrise/  
 mos → 0/6 → Temp to 75 → OK → apply for all  
 ambient → (all)

→ OSM (check at the corner)

select turbine → present → (cancel/next) → add rule →  
 file → OSM → mos → 6 to 80, w direct → 270-320  
 (2-trub)

→ Noise

→ Date → Time 22:00 / 0:00 & Date 1/1 → 12/31.  
 mode - 7 / shut down. (2 - turbines)

→ Close Port Calculation set

→ time ranging based on → (cancel/next) → the text entered  
 → complement all (cancel/next) → bat temp → error  
 → OK →

→ Manipulation

→ Select Calculation w/o any losses → Date from meter  
 abstract → MCP → wires → loss → table → picker → bats  
 OSM → edit → allow individual setting → select  
 → wire → add wire → mos → 6 to 5 → 270 → 320.

9/1/25

Wind Box (Mikolai)

Page No.

Date

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## Shapefile + Measurement data

→ Create new project → select @ coordinate system → create area  
area → so (area area) → select @ Put on site → Right click  
create new area →

Add area

→ Add layer → area → Street area (N 149 x 150 m) → make  
distance circle →

roughness

→ Add layer → roughness → @ → Roughness lines → online  
data → RTM → NADDEM (RTM) → select →

→ TIN → method 2 → double click → properties → line colors →

→ 5 colors → Auto Color → OK.

roughness

→ New layer → roughness → @ → roughness lines → online  
data → online land cover 2015 → 6 x 10 → OK.

measurement

→ Add layer → measurement → @ → (meter object) → in exam position  
(import co-ordinates) → guide → import (text file for exam)  
→ guide (import) → click export.txt → guide (100 m)  
check for wind rose → wind direction → set guide direction  
OK.

Analysis data

→ New layer → analysis → meter object → online data → measurement test  
check for col. → Select measurement area → OK →

open section → line → line 5

climate  
→ MCP

name  
→ Select MCP → ERA5 (T) → Select height (100 m) based on  
year hub height → long term ref (100 m) → model LT →  
add model → Terrain test → spectral network → (annual  
wind profile need to see for matching) → Co-relation



Name

click on predict → model met → MCP LT (RAS CT) →  
Create new meter object → create → OK → OK →

add layers → site data → ~~OK~~ → propose → stage → OK →  
Climate → stage → MCP → RS → Data 100 m → calculate.

change the <sup>pooling</sup> ~~pooling~~ → propose of stage → stage → wind statistics → select  
wind speed → OK → green symbol → select area.

→ model <sup>reverse</sup> ~~add~~ → calculate based on stage → Reverse  
stage (s) → HHC (112 m) → resolution (25/50) → OK →

→ optimization (in exam) 50:50

L >

<sup>removing area</sup>  
A new layer → noise → double click → Demands → WDB → OK  
Environment → Described → filter → select area → No  
Noise → calculate →

Shadow

Copy → noise → right click → Copy → call → Pool → copy  
coordinates → place in area → select shadow receptors  
Properties → green house → OK.

→ shadow → flicker at receptor → worst case → flicker at max  
select work → Real Case → <sup>Real Case base</sup> max → flicker max  
worst case

→ 0.3 → Copy to all objects →

## PARK Calculation

Time implies  $\rightarrow$  set up  $\rightarrow$  AEP  $\rightarrow$  code  $\rightarrow$  scaling  $\rightarrow$  met  
 set up  $\rightarrow$  algorithm  $\rightarrow$  OK  $\rightarrow$  code  $\rightarrow$  Defect 1 & 5 from level 5  
 OK.

## Offshore:-

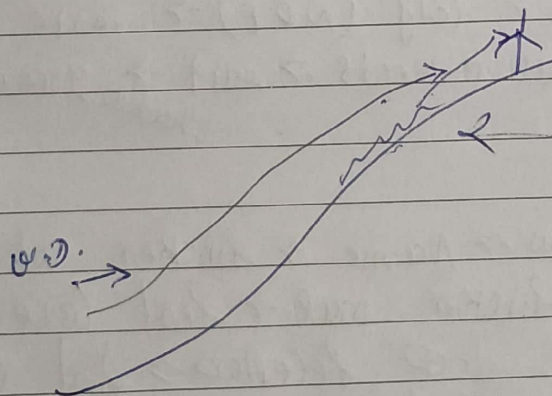
1) Standards  $\rightarrow$  DIN EN 13306:2010-2 (pg 178)

Def & Std :-

○  
Soft mat

△  
hard material

no drawing of a turbine effect forced come!  
 how to prevent additional loads from drive train.



- $\rightarrow$  direct stream on  
rotor from below
- $\rightarrow$  change of density  
due to roughness

Handwritten signature or scribble.