

Limits

New limits should be:

Layouts: 200

Climatologies: 1000

No. of cells in Horizontal: 2000*2000

No. of cells in vertical: 100

The occupied capacity of hard drive for the project has to be reduced.

Post processing too slow; would be nice to queue it

Jpeg picture in 3D instead of bmp

Energy calculation slow 2 days for 100 turbines

The maximum records in the .tw5 file is too small

post-processing limits: Objects is slow, should be possible to choose which climatologies to be used for a WAsP export and file type .rsf or .wrg.

Best practice

1) Guidance

More information is needed for forest modeling, cross checking, and turbine assessment files.

How to set it Boundaries. Make examples

MOL instead of temp gradient

Tutorial with cases

Check on the size nesting nested grid

Which wake model best to use

2) Quality check

It was suggested that we would need more than the terrain complexity and the cross-checking errors; also distances between measurements, resolution, number of cells

open Support Already asked questions (FAQ)

Improve WindSim

1) Features asked by several groups:

Multiple refinements

Refinement in nesting

Wake decay flexible

Irregular sector

Solver (Unstructured)

Improve on the forest modeling

Give weighting to climatologies

Reduce the size of stored files (enable the user to define limit)

Turbulence map output in ASCII

User friendly double refinement

Grid distribution; consider to allow for geometrical sequences not only arithmetical

2) Features asked by one group:

Load SCADA data and cross check with WindSim (also useful for WindFarm management)

Enable smoothing on the edge of refinement (radial weight is not enough)

Modify the energy calculation using rotor and take the horizontal component of the wind

Automatic particle tracing

Parallelize export fgs file

Make a smaller pyramid in the picture

Wind field report add to the residual not only the mean but also max and min

Report spot value and residual during batch mode

Manage the crash out of memory (the user lose all the work)

Export to Google Earth; turbines and scalar fields (resource map)

Part names not only in Objects but also in Results and Wind Resources

Wind resource map weighted according to cross checking errors

Option for displaying or don't displaying GLview pop ups in Wind Fields module

Provide further/better error message, rather than an error number

Grid distribution; make the grids always along or perpendicular to the flow direction.

Solver (LES)

Extreme winds fit Gumbel with only one year of data; WIndpro does

Error message about smoothing should go out

Bundle GM/WG

Zone 33/32 in one project (Fichnter) how to do?

New wake model: eddy viscosity

Jensen model make turbulence available

Castellani power curve correction

Shear => rotor equivalent wind speed

Wat wind shear how to calculate it

RMS for cross-checking not relative value

Improve the smoothing on refinement area

Flow inclination at turbine AEP

Give a sector wise power curve for the complete wind farm

Name of power curve should be longer and shown

Give residual mean value

Calculation of production losses due to icing

Inflow in turbine assessment file sectorwise

$l_{ref} < l_{eff}$ rounding problem?

Load turbines inside terrain pictures with add.glc

Sector management