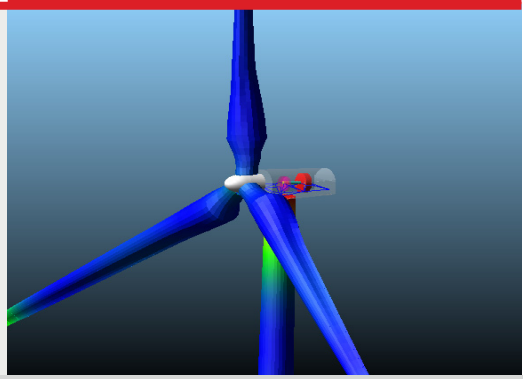
TOOLKIT



AdWiMo-CE

AdWiMo Certification Engine

Field of Application

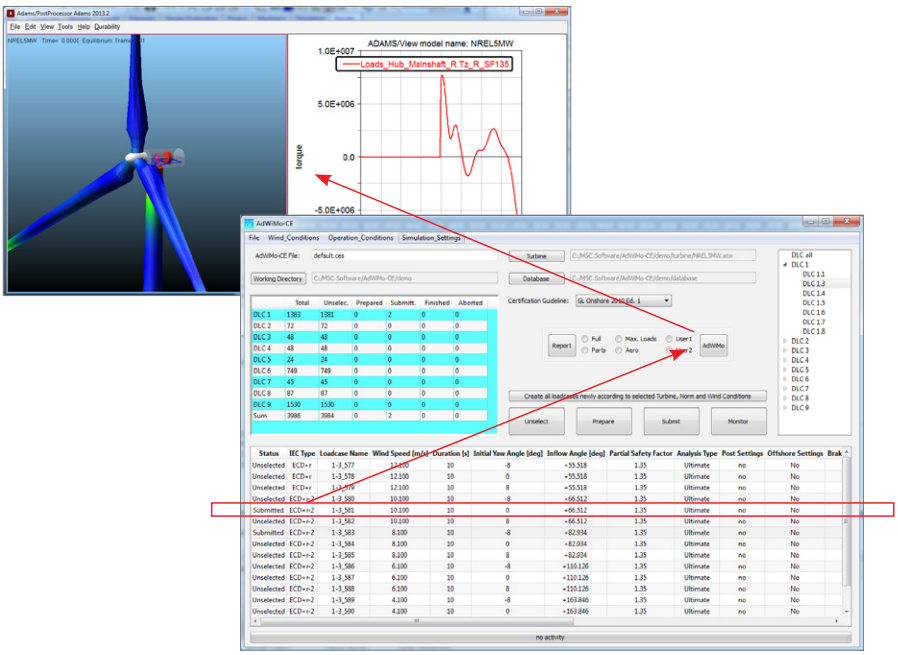
AdWiMo-CE is a stand-alone product, which administrates the thousands of MSC AdWiMo simulations, which are needed according to the certification guidelines for wind turbines.

AdWiMo-CE uses a Master-MBS-model created via AdWiMo as basis. This model is adapted according to the selected certification guideline for each certification loadcase. The loadcases itselves are generated automatically according to guideline, turbine type and other relevant boundary conditions. The need of user interaction is reduced to only selecting the needed components. Creation of all data files, preparation of simulations and finally the performance of the simulations is done automatically.

In order to ensure a short overall simulation duration, the near real time simulations can be distributed and simulated in parallel in a network environment. One host gathers the informations and provides the user interface.

Future development work concentrates on improving the automated reporting system. It allows the user either to get back “certification ready” reports for the whole loadcase set, or only a tailored display of selected loadcases to evaluate turbine response for critical design cases.

AdWiMo-CE is made to condense the time consuming process of creating and performing certification relevant loadcases of wind turbines. The increase of efficiency is guaranteed due to the delivery of highly automated and tailored approaches.



Capabilities

- Selection of required certifuication guideline
- Selection of AdWiMo master wind turbine
- Selection or adaption of principle additional calculation settings
- Creation of all guideline relevant loadcases depending on turbine type
- Selection of individual, groups or the sum of loadcases
- Automated simulation data file creation
- Automated performance of simulation jobs
- Automated distribution over network (via MSC Analysis Manager)
- Monitoring of job status
- Extraction of relevant results
- Steadily improved: Result display in an automated report
- Time reduction for evaluating a turbine design within a full certification load set

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