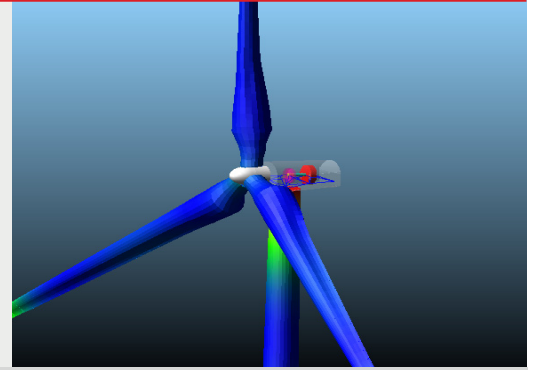


AdWiMo-CE

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 themselves 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 certification 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

The screenshot displays the AdWiMo-CE software interface. On the left, a 3D model of a wind turbine is shown. In the center, a graph plots torque over time for the 'Loads_Hub_Mainshaft_R_Tz_R_SF135' component. On the right, a table shows the status of various simulation jobs. A red box highlights a specific row in the table, and red arrows point from the graph and table to the 'User' button in the software's control panel.

DLC	Total	Unexec.	Prepared	Submitted	Finished	Aborted
DLC.1	1383	1383	0	2	0	0
DLC.2	172	172	0	0	0	0
DLC.3	48	48	0	0	0	0
DLC.4	48	48	0	0	0	0
DLC.5	24	24	0	0	0	0
DLC.6	748	748	0	0	0	0
DLC.7	45	45	0	0	0	0
DLC.8	87	87	0	0	0	0
DLC.9	1538	1538	0	0	0	0
Cum.	1286	1286	0	2	0	0

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