Partner offer (competences/expertise)

We have experience in wind turbine modelling from the perspective of computational fluid dynamics. Our simulations include phase change effects - for example build-up of ice on rotor blades - including the full thermodynamic and fluid mechanic effects (temperature, pressure, fluid-solid heat transfer).

Our simulations also take the vertical wind speed-profile into consideration. For larger turbines, there is a significant difference in wind speed over the height of the installation. This is fully considered in our simulations.

Example video of wind turbine simulation: https://youtu.be/JpV9rfXorD8

Information about our wind turbine simulations: http://rheologic.net/en/transient-cfd-simulation-wind-power

Topics

LCE-14-2017.: Demonstration of large >10MW wind turbine

Contact

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