A NEW PROCESS FOR THE PRAGMATIC CHOICE OF WIND MODELS IN COMPLEX TERRAIN

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PROJECT FACILITATED BY WINDFORS:

ACADEMIC AND INDUSTRY RESEARCH PARTNERS:

OUR GOAL IS TO HELP FIND THE RIGHT MODEL FOR THE JOB:

Challenge: there are currently no guidelines or tools available to the wind resource modeller to help choose the most appropriate wind model in terms of accuracy and costs, and the incorrect choice of tool can be catastrophic for investors or acquirers of wind parks.

Solution: development of a new industry-relevant decision process for selecting the wind model that gives the best results with the least computational effort and costs for any given wind energy project, with a focus on complex terrain.

Benefits: quicker and more reliable choice of wind resource assessment tool, optimal usage of resources and optimal accuracy of results.

SCALING FUNCTIONS THEREFORE NEED TO BE DEVELOPED VIA A RANGE OF SIMULATIONS BY VARYING THE INPUT PARAMETERS:

THE NEW SCALING FUNCTIONS CAN THEN BE APPLIED TO ESTIMATE SKILL SCORE AND COST WITHOUT CARRYING OUT SIMULATIONS:

Find out more: https://www.windfors.de/en/projects/pragmatic-wind-modeling/

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