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Maintenance simulator: A TRAINING TOOL for the sustainability of European wind farms

Project overview

Launched in December 2017, SIMULWIND is an ambitious European funded project aiming at developing a maintenance simulator to train professionals on main maintenance activities in the wind turbines and more specifically in the nacelle, even before accessing it. It will be used in the training of operation and maintenance (O&M) staff. The project ends in December 2019. The SIMULWIND project receives funding under the ERASMUS + programme of the European Union.

This project follows the wind industry priority for a digital transformation of the sector. It replies to and answers some of the challenges that currently impact the wind farms operation: the need of skilled personnel and new operational modes based on the projects useful life extension and the reduction of variable costs.

Simulator first version ready!

The first beta version of the simulator designed by the company MONSUTON is now ready.



Illustration 1: Wind turbine entrance



Illustration 2: Mechanical drive transmission



Illustration 3: High speed shaft view

The simulator presents specific situations and cases in virtual reality that may occur during the operation of a wind farm. This represents a further step in training operation and maintenance technicians, as they will be able to test real life situations and concepts acquired in different training modules. The simulator offers the possibility for workers operation and maintenance workers to understand and know the details of a wind turbine before actually starting working onsite, which means a great advancement as it is not always an easy and affordable task in the training phase, particularly for offshore wind turbines.

One of the challenges of this project is to develop a simulator based on a standard WTG which could be later adapted to different type of wind turbines as well as to introduce different maintenance procedures complementary to those integrated in the initial version.

Pilot tests in Italy, Germany and Spain

The current version of the simulator will be tested in pilot tests during autumn. The tests will be organised in Italy, Spain and Germany, in the training courses of BZEE, AEE and ANEV. The partners will select a group of at least 5 direct beneficiaries per country. The consortium will use the findings to complete the simulator and improve the version that will be released to the public end November 2019. The partners involved are BZEE, ANEV, AEE and SGS.

For more information on the simulator and the pilot tests, please contact the project coordinator at info@bzee.org

National and European dissemination events

BZEE, ANEV, AEE, SGS and WindEurope will organise dissemination events to present the project results in their countries. The partners will invite various stakeholders, from workers and trainers in the wind energy sector to representatives of public bodies at national and local level, of the ERASMUS+ National Agencies and other main wind energy sector stakeholders.

The agenda of the event will be made of two main parts: the presentation of the simulator, its context and final results and a round table in which the attendees will have the possibility of debating with experts the future perspectives of training and skills needed for wind farms maintenance.

The events will be organised between November and December in Germany, Italy, Spain and Belgium.

Project meetings

Fourth project meeting, Valencia, 25 and 26 June 2019

The meeting highlighted the project progress, with a particular focus on the simulator. MONSUTON presented the virtual reality simulator, all partners could view some parts of it and test it. The partners discussed the simulator test phase and the final dissemination events. The last transnational meeting will take place in Brussels in December, 2019.



Project Consortium

Project Leader:
The BZEE Academy GmbH



Project partners:



For more information on the project please contact the project leader BZEE at info@bzee.org or visit the [project website](#)

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