# A virtual Technical Committee shows the progresses in the development of condition monitoring solutions for the offshore wind industry

* ROMEO project’s partners gathered recently in a Technical Committee Meeting to share their progresses on the different work packages and tasks that are essential to the success of the initiative.
* The members of the consortium presented their latest advances in the technologies for the offshore industry and concluded that the project is progressing as planned, without any relevant deviation.
* After finishing the WP5 6 months ago, its results are being implemented in the three demo sites of ROMEO.

ROMEO project, which aims at developing advanced technologies to reduce the O&M costs of the offshore wind farms, ends its fourth year of execution with a Technical Committee meeting focused on sharing the progresses of the consortium’s partners on the different work packages and tasks that are essential to the success of the initiative’s goals. The event was held virtually recently.

After the discussion and presentation of all the updates in the different work packages of the project, backed by the European Union’s Horizon 2020 programme, all the partners agreed to conclude that the initiative is advancing as planned, without any relevant deviation.

During the digital encounter, Cristian Rodenas from [Siemens Gamesa](https://www.siemensgamesa.com/es-es) explained that the work package 2, which aims to develop a condition monitoring solution for wind turbines, is progressing satisfactorily. In addition, Kilian Krüger from [Bachmann](https://www.bachmann.com/es/), Igor Reinares from [Laulagun Bearings](https://www.laulagun.com/es/) and Pierre Bousseau from [EDF](https://www.edf.fr/) explained how the algorithms developed for the main bearing, blade bearing, and electrical drive train, are being subjected to tests for validation at different scales, and in some of the cases they have already reached the portability phase.

Following the second WP, the work package 3, which deals with the diagnosis and prognosis models for wind turbines has already accomplished two of its three tasks. Roy Assaf from [IBM Research](https://www.research.ibm.com/) showed that the statistical models under development are being validated as well, and that they will be ready for final deployment in work package 7.

The good progress of work package 4 related to the Structural Condition monitoring was also explained by Carolin Wendelborn from [Ramboll](https://ramboll.com/). and the same happened with work package 6, when Moritz Gräfe from [UPTIME Engineering](https://www.uptime-engineering.com/) explained that all tasks except for one, which will run until the end of the project, were finished.

Additionally, the work package 5 “Data acquisition and analytics ecosystem” finished already 6 months ago, and its results are being implemented in the Work package 7 (Pilot Tests). For example, Robert Jones from [Iberdrola](https://www.iberdrola.com/), with the support of Daniel Rodríguez from [Minsait-INDRA](https://www.minsait.com/es), explained the progresses related to Wikinger and East Anglia 1 demo sites and EDF explained the progress in Teeside wind farm. Both are running according with the plan.

Another participant of the meeting was Athanasios Kolios from [Strathclyde University](https://www.strath.ac.uk/), who explained the results on WP8 “Impact Assessment” and presented the strategy to involve external stakeholders in it.

Finally, the progresses on Dissemination, Communication and Exploitation (Work package 9) were detailed by Susana Garayoa from [ZABALA](https://www.zabala.es/). This was completed with an overview of the training tasks, related to the training event that ROMEO Project will hold virtually on the 10th of December.

About ROMEO project

ROMEO Project (Reliable O&M decision tools and strategies for high LCoE reduction on Offshore wind) is an initiative funded by the Horizon 2020 programme and its main objective is to reduce offshore O&M costs through the development of advanced monitoring systems and strategies, aiming to move from corrective and calendar based maintenance to a condition based maintenance, through analysing the real behaviour of the main components of wind turbines (WTGs).

The innovations developed within the R&D work packages will be tested in three use cases managed by the wind farm operators of the following projects: Teeside (United Kingdom), Wikinger (Germany) and East Anglia ONE (United Kingdom). This way, the benefits achieved will be demonstrated, and the future replication of the project in other wind farms will be ensured.

ROMEO is an industry-based consortium made up of 12 recognised and experienced key players from 6 different EU member states and 1 associated country led by Iberdrola. The consortium includes large companies (EDF, Siemens Gamesa, Ramboll, IBM Research Zurich, Minsait INDRA, Bachmann), SMEs (Laulagun Bearings, Uptime Engineering and ZABALA Innovation Consulting) and the Strathclyde University, and will work jointly to benefit decision making processes of offshore WF operators.

This project is awarded by the European Commission with a Horizon2020 Programme Grant of €10 million and a total budget of approximately €16 million running for 5 years.

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