ReWind 4.0	ReWind 4.0: Innovation for future technical and economic success of offshore wind farms

What challenge or problem are you addressing? What is the need for the project?

The need for the project is to help address the economic and technical challenges for efficient operation of offshore wind farms. Two key drivers are: 1, How to optimize the economic planning, construction and long term maintenance of offshore wind farms, and 2, How can contemporary long term condition monitoring be extended towards remote real-time non-destructive testing, for greater reliability, cheaper, safer, and more efficient operation.

Objective of the project:

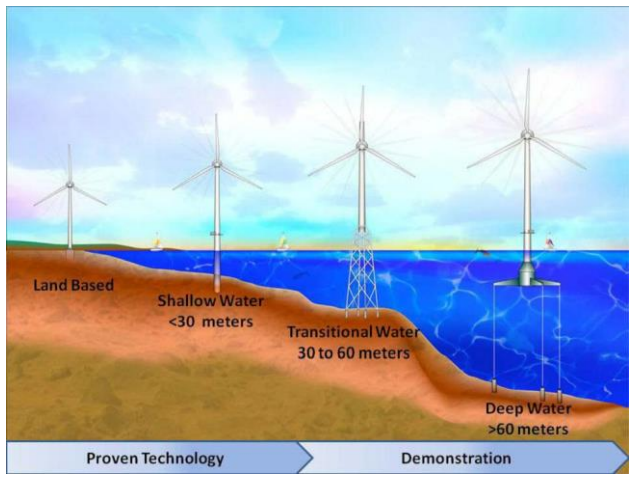
To improve the economic forecasting, design knowledge and operation costs for offshore wind farms. To achieve higher reliability through increased confidence in novel remote electrical and civil structural monitoring.

Why do you need transnational cooperation?

Transnational cooperation to equalize capabilities across North West Europe and share and develop best practice. Capabilities in various regions are diverse and at different skill levels, so through joint working can be improved for the benefit of all.

What kind or partners are you looking for?

Partners from wind trade associations and wind farm companies. Techno-Economists and Engineers with enthusiasm to drive down operational costs of wind farms and help produce lower cost, greener and more reliable electricity for the public.



As Wind Farms evolve and move further offshore, economic and technical problems will be more challenging.

Picture courtesy of: Jplourde umaine, National Renewable Energy Laboratory.

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