

5 Pillars of research and innovation for wind energy

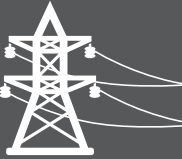
Grids systems, integration and infrastructure

Operation and maintenance


Industrialisation

Offshore balance of plant


Next generation technologies




Developing wind energy capabilities to fit in a grid with significant shares of renewable energy.



More and further enhanced sensors enabling more reliable and efficient operation and maintenance of turbines, improving yields and optimising lifetime.



Developing the value chain and facilitating the interaction between stakeholders notably through standardisation to achieve economies of scale and faster production.



Exploring new areas for offshore wind and making it competitive with conventional generation through the improvement of substructures and foundations, site access, offshore grid infrastructure, assembly and installation.



Consolidating the scientific base for wind research and enabling pioneering research to lead to breakthroughs.

From R&I to deployment

Adapting markets and policies for optimal integration of renewables, integrating wind turbines into their natural surroundings, ensuring public engagement and acceptance and deploying human resources.