



STEP4WIND

Novel design, production and operation approaches for floating WIND turbine farms

Pillar III
Marine renewable energy
5 | Wind energy



STEP4WIND aims at increasing the commercial readiness level of floating offshore wind energy through technological innovations across the supply chain.

Overview

Floating Offshore Wind Turbines (FOWTs) could be a game changer to further decrease the cost of offshore wind energy and unlock new markets. Wind turbines placed on a floating support and moored to the seabed can harness energy in areas with much higher wind speeds, at a reduced installation cost. It also gives the opportunity to countries with deep water to enter the offshore wind industry. The SET-Plan stresses that Europe needs to move fast in deploying FOWTs. It also highlights the urgency to widen the basic knowledge of early-stage researchers (ESRs) towards the design of FOWTs and match it with industrial needs.

This European Industrial Doctorate programme will achieve this by delivering 10 doctoral degrees jointly supervised by the public and private sectors. The ESRs will be supervised by 3 universities with a track-record in wind energy research and 5 companies leading the deployment of floating wind farms and heavily involved in policy-making bodies. A mentoring scheme will be tailored to the needs of each ESR, with the involvement of several female senior staff.



Project funding

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2,754,946.26 euros

EU funding:
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Horizon 2020

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Impact & Results

STEP4WIND will develop floating-specific tools, methods and infrastructures to tackle the technological and economical challenges of FOWTs, from design to deployment, operation and scaling up. It will also deliver guidelines for large farm deployments, with a clear roadmap to commercialisation. It will also take part in large outreach initiatives, such as the TORQUE2020 outreach events organised by the Coordinator.

PARTNERS

