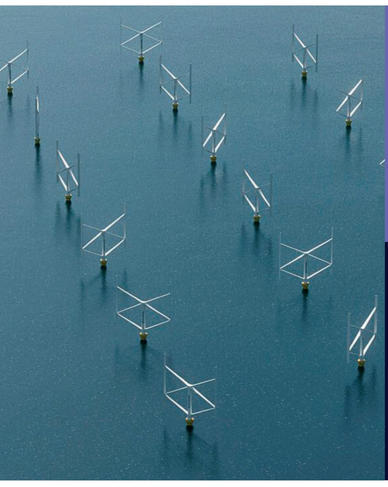
VERTI-GO

Innovating offshore energy with scalable vertical-axis design for deep-water deployment

Demonstration of a VERTIcal-axis floating wind turbine for offshore energy Generation with improved performance and accessibility for Operation & maintenance



Pioneering a new generation of floating wind technology with a vertical-axis turbine designed for deep-water conditions. VERTI-GO delivers efficiency, cost savings, and operational simplicity through an integrated tower-floater design.

Objectives

- **Cost & performance impact:** lower CAPEX, O&M simplification, stability
- **Scale & validation pathway:** 2MW demonstrator, TRL progression

The technology

Integration tower-spar into one vertical rotating unit	Simpler manufacturing process	CAPEX
Lower centre of gravity	High stability with smaller floating system	CAPEX
Improved accessibility to the rotating parts	Maintenance onshore, no big vessels	OPEX
		Lower LCOE

30kW prototype (TRL 5) in operation since 2015

Operating 2MW demonstrator (TRL 8)

Stage 1: Planning & design

Feasibility study for different use cases → Permits, site & certification

Demonstrator design → Simulation & DT foundation → Supply assessment

FID (go/no-go upon ALL partners agreement)

Stage 2: Procurement & Commissioning

Grid connected

Component manufacturing and Assembly → Demonstrator Deployment on testing site

Stage 3: Operation & Monitoring

Operation for 18 months → Optimize O&M Strategy

Data gathering & model refinement → Real-time Digital Twin

Environmental Assessment & Monitoring

Communication, Dissemination & Exploitation including business development

48	11	09	21	15
Months	Partners	Countries	Mln € Total budget	Mln € EU Funding budget

Contact us

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VERTI-GO Project

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