

What is special about wind energy projects?

Wind turbines don't have to all look the same. It is an art, where smart solutions require creative approach to bring efficiency. Bilfinger Tebodin has a perfect combination of two key points to perform its best for your energy project:

- 1 Consultancy approach, thinking creatively and smartly selecting a project location
- 2 Engineering preciseness and state-of-the-art technologies



GDF Suez (now ENGIE), Poland

For the biggest windfarm farm project in Central Europe back then, with an output of 30 MW, Bilfinger Tebodin performed the owner's engineer services: procurement for contractors, verification of the detailed design, project management, multidisciplinary technical supervision, cost management and supervision of the commissioning phase.

"The high level of services provided as an engineer, excellent professional preparation and the involvement of employees, allowed us to perform our duties on the project very well."

GDF SUEZ

TenneT, the Netherlands

Currently a number of offshore wind farms are being built for future energy supply in the Netherlands. They will be connected to the existing high voltage grid with 220 kv seacables offshore and 380 kv landcables onshore. These offshore wind farms and high voltage cables will generate a supply of 1,4 GW from 2022. Bilfinger Tebodin was asked by TenneT to supervise the realization of the 380 kv landcables to ensure the quality and safety of the new connection.

"We requested Bilfinger Tebodin to supervise the realization of the landcables because they are a reliable partner with high quality and safety standards. We worked with them on other projects and are very satisfied with their service."

TenneT

We know the challenges of energy companies, who have to deal with various contractors. On this market it's common to split responsibilities for different parts of the project. Years of experience enabled Bilfinger Tebodin to develop a complex solution to make things less complicated and cost-demanding for the investor. As a single partner, Bilfinger Tebodin is able to fulfill the whole cycle of a wind farm project, from the initial analysis (due diligence, feasibility study) to post-construction activities (management of contractors during a guarantee period).

Bilfinger Tebodin

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We created this project matrix to guide you through your project journey with all the benefits it may bring to your business.

Please note:

*Market investigation may include, but is not limited to:

- 1) Assessment of demand and supply availability
- 2) Pricing overview and projections
- 3) Regulatory framework overview
- 4) Competitive landscape overview

Contact us to know more:

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BILFINGER TEBODIN



**YOUR PROJECT
MATRIX FOR OFFSHORE
AND ONSHORE
WIND FARMS**

Project phases	PROJECT PLANNING AND FUNDING				PROJECT EXECUTION					PROJECT MONITORING	
	Project planning / preparation	Due diligence	(Pre-) feasibility / feasibility	Project funding	FEED	Detail engineering	Procurement	Construction & commissioning	Maintenance		
Business part	Business case development / verification	Risk analysis	Project requirements assessment	Project adaptation for funding requirements							<p>We help you choose the most suitable technology solutions, incorporate innovative technologies to your business and deliver your project in the most efficient way.</p> <p>■ Bilfinger scope</p>
	Project management strategy		Market investigation*								
	Organizational structure		Feasibility study for management team								
	Milestones and project stages planning										
Financial part	Financial modelling		CAPEX & OPEX	Financial engineering							Project monitoring for investor / lender
	Investment planning										
	Financial options search										
Engineering & Construction part	Permitting consulting	Environmental and social impact assessment	Workshops with investor's team		Permitting applications	Process integration	Support with selection of general contractor	Construction management	Rope access		
	Project schedule		Procurement strategy		Process integration	Detailed design	Tender package and bill of quantity preparation	HSE management	Main components quality control		
					Building permit design	Design management	License for power generation	Document control	Firefighting equipment certification support		
					Support with construction permit obtaining		Procurement status report	Quality and author supervision	On-site activities supervision		
							Support during negotiation meetings	Technical supervision	Investor's representative on site		
							Evaluation of tender offers	Scheduling and progress control			
								Permitting support and commissioning			
								Environmental supervision			
								Construction and installation			
	Legal part						Legal due diligence				
					Risk assessment						