

# Wind Energy

## A Sustainable Business in a Stable Investment Environment

The country's wind energy industry is one of the world's largest and is at the forefront of technological development. Germany's long mechanical and electronic engineering tradition is the backbone underpinning its current strong position.

Germany's central position makes it an ideal location for European onshore and offshore markets alike. Excellent investment opportunities have led wind energy companies from around the world to base their operations in Germany.

### Solar and Wind Power: Higher Expansion Limits

**The government wants to make it possible for municipalities to benefit more from the financial returns of onshore wind power to strengthen support for wind power projects.**

In order to further accelerate the switch to renewable energy, the governing coalition intends to abolish the limit on photovoltaic installations immediately and raise the expansion target for offshore wind power from 15 GW to 20 GW by 2030, which would provide planning security for investments in this sector. There is now even a discussion about targeting 40 GW by 2040.

#### More from Germany's Covid-19 economic recovery package:

- [Hydrogen strategy: making Germany the home of power-to-X](#)
- [Energy efficiency: greening Germany's building stock](#)
- [Power grids: sector coupling through the SINTEG program](#)
- [EV charging infrastructure: turbocharging the mobility of tomorrow](#)
- [Future forestry: adapting to climate change and moving to sustainable forestry](#)

## Industry & Market Numbers

- Germany is Europe's leading wind energy market with over 2 GW of newly installed capacity in 2019 and more than 61 GW of total capacity. (Deutsche WindGuard 2020)
- Germany's 4% global share of new installations made it the world's fourth largest market for new installations in 2019. (GWEC 2020)
- The country's wind energy sector employs around 135,000 people. (BWE 2020)
- Repowering share in new onshore installation amounted to 155 MW in 2019. (Deutsche WindGuard 2020)
- Energy production from wind energy sources can cover over 24% of the German electricity demand 2019. (Fraunhofer ISE 2020)

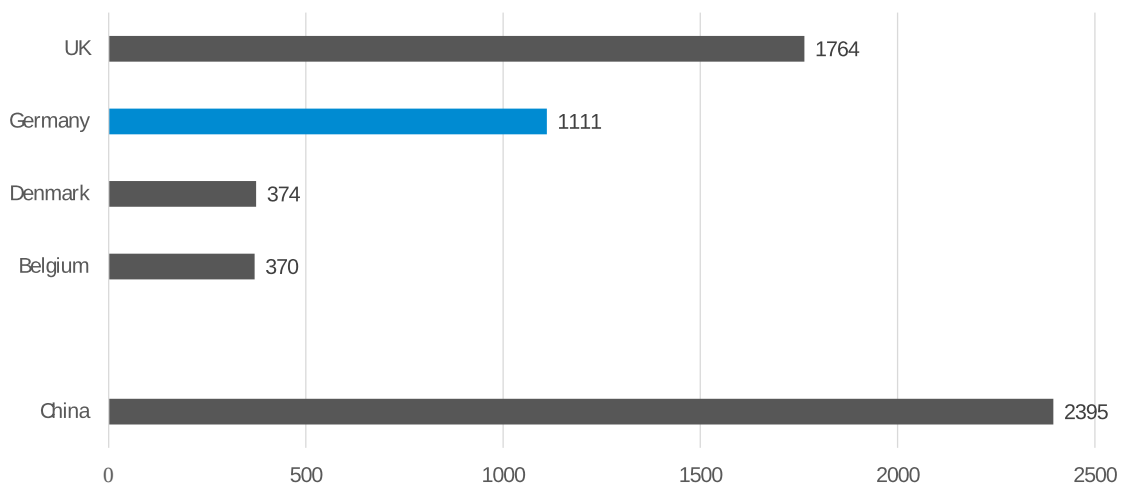


Contact our industry experts today! We offer you free-of-charge consulting on what the German market has to offer for your solutions. Find out how GTAI can make your market entry a success.

## Offshore Wind in Northern Europe

Germany is one of the leading offshore wind markets.

Annual offshore wind capacity installations per country in 2019 (MW)



Source: Wind Europe 2020  
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### Market | Industrial Infrastructure

**MARKET** - Market studies show that international companies consider Germany – alongside China and the USA – to be one of the most important wind energy markets worldwide – both today and in the future. The increasing offshore related activity reflects the unparalleled location economies of Germany’s coastline for the European offshore market.

The wind industry manufacturers, as well as the supplier industry settled in Germany makes a significant contribution to wind market turnover. The year 2019 brought another huge leap forward in terms of global capacity with 60.4 GW installed (Source: GWEC 2020). Significantly, high German company export levels allow above-average industry participation in global turnover.

**INDUSTRIAL INFRASTRUCTURE** - Members of the world’s strongest wind energy industry profit from the immediate proximity to leading wind energy companies along the whole value chain, which offer excellent opportunities for partnering.

### Personnel | R&D

**PERSONNEL** - Our renowned educational system supplies a large pool of experienced, world-class employees with essential engineering know-how. In addition, several new degree programs educating specialized wind energy engineers have been created all over Germany to cater to the industry's needs. Stable wages, high productivity, and local manufacturing provides for faster time to market and the "Made in Germany" quality guarantee.

**R&D** - Germany is home to a number of engineering companies recognized as being the brains behind the latest wind power generation developments - however they might be branded. Close cooperation between Germany's R&D institutes and equipment manufacturers helps maintain an internationally unparalleled competitive edge. They continuously work on optimizing existing technology and finding solutions for technical challenges. Industry and research initiatives such as the newly developed test stands for nacelles, rotor blades, supporting structures and foundations are just some examples of their various fields of activity.

### Incentives | Legal & Political Framework

**INCENTIVES** - In Germany, investment projects can receive financial assistance through a number of different instruments. These instruments consist of public incentives programs available to all companies - regardless of country of provenance. They fit the needs of diverse economic activities at different stages of the investment process. R&D project funding is made available through a number of different incentives programs targeted at reducing the operating costs of R&D projects.

- [Incentive Programs](#)

**LEGAL AND POLITICAL FRAMEWORK** - Germany is world renowned for its highly developed economic, legal and political frameworks which provide investors - in all industry sectors - with the necessary security for their business investments. This is also reflected in the financial sector's position regarding German wind energy projects in the recent financial downturn. Last but not least, "The Renewable Energy Source Act (EEG)", with its remuneration scheme and grid priority for renewable energies has helped avert the financial restraints felt in other sectors of industry.

- [Renewable Energy Source Act \(EEG\)](#) 

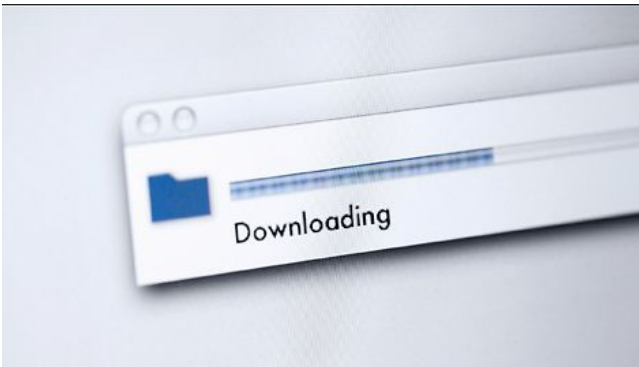
### Physical Infrastructure | Stable Investment Environment

**PHYSICAL INFRASTRUCTURE** - Germany's infrastructure excellence is confirmed by a number of recent studies including various investor surveys by AmCham and "Standort Deutschland 2019" by Ernst & Young. The 2018 "Logistics Performance Index" of the World Bank ranked Germany first worldwide overall and for infrastructure; singling out Germany's extensive and efficient infrastructure for highly efficient transportation of goods and passengers for special praise.

In terms of the offshore wind industry's unique logistic requirements, Germany offers attractive and purposefully developed quayside or quayside near sites at competitive prices - ready to serve the demands of the northern European offshore markets.

**STABLE INVESTMENT ENVIRONMENT** - Social, economic, and political stability provide a solid base for your corporate projects. Our judiciary and civil services are highly professional. Contractual agreements are secure, and intellectual property is strictly protected in Germany.

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### Contact Us


Anne Bräutigam

 +49 30 200 099 223

 [Submit your question](#)

### Contact Us

Esther Frey

 +49 30 200 099 253

 [Submit your question](#)

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