

One-Stop Shop for Wind Power
projects and business transactions

Wind Power

We understand the technology

AFRY has more than 25 years of experience providing wind power engineering services such as site screening, Energy Yield Assessments, Technical Due Diligence, Owner's Engineer services, and Technical Advisory for operations improvement and production optimization for wind farms totaling over 30,000 MW.

We strive for sustainability

We provide multidisciplinary expert services for Environmental and Social Impact Assessment, permitting and licensing procedures, Land Use Planning, and Environmental Due Diligence.

We know the markets

We are a leading provider of electricity market studies and market price forecasts. Our thorough understanding of energy markets and regulatory frameworks worldwide gives us a unique position to support clients in entering new markets as well as deciding on their strategy options and acquisition targets. We have provided market, regulatory and commercial advisory services for over 35,000 MW of onshore wind and over 53,000 MW of offshore wind projects.

200+

Wind projects delivered

Our approach

Developing and building wind power projects requires not just understanding the wind as an energy source and as a force of nature impacting the technical solutions and specifications, but also comprehensive understanding of the broader technical infrastructure, market and regulatory issues impacting the project profitability, as well as the physical, natural, cultural and socio-economic environment surrounding the project site.

Access to a broad spectrum of expertise is therefore a prerequisite for a successful project.

Our expertise covers all aspects of wind energy: from measurements to meteorology, from turbine technology to O&M, from environment to economics, from business strategy advisory to engineering, contracting and overall project management.



- Market reports and price projections
- Policy and regulation studies
- Wind and renewable energy strategies
- Market entry strategies
- PPA Advisory

- Development support
- M&A support
- Project management
- Wind measurements and Energy Yield Assessment
- Feasibility
- Basic design
- Permitting
- Environmental studies
- Grid studies and power system integration
- Technical specifications
- Tendering
- Contracting
- Financing support

- Design review
- Site supervision
- Testing
- Commissioning
- Connection to transmission network
- Contracts and loan management

- Asset management
- Operational excellence
- Production analysis
- Maintenance
- HSE plans
- Energy sales

A photograph of four offshore wind turbines standing on a sandy beach. The sky is a warm, golden-orange color from the setting or rising sun, with some clouds. The turbines are dark in color, and their long blades are visible against the bright sky. The perspective is from a low angle, making the turbines appear tall and imposing.

50+

Wind power experts

International

We are global as well as local – we understand both the global technology trends and the local aspects. Our service packages and international project teams are tailored to meet the specific needs of each project.

We provide our services in compliance with the best international practices and standards as well as fulfilling local authority requirements and design codes.

Experienced

For more than 25 years, AFRY has been actively involved in hundreds of wind power projects around the world. AFRY'S dedicated experts have cutting-edge expertise to serve clients throughout the entire value chain and project lifecycle.

Many of our clients want to keep us close by, as their trusted advisor from the early stages of market entry, identifying target sites, and all the way through the development and pre-construction phases to project completion and commercial operation.



Innovative

We are at our best when working on pioneering projects – whether facing technical challenges, emerging markets, or providing front runner financing solutions. In several countries, we have supported the construction of first utility-scale wind farm projects, first applications of the latest turbine technology, or closing of first international Project Finance transactions.

We understand the big picture of Energy Transition and the role that wind energy will play as enabler of cross-sectoral emission reductions and in achieving a carbon neutral economy. We are involved in a number of innovative development projects involving hybrid power production, energy storage, smart grids, e-mobility, green hydrogen production, and Power-to-X schemes.

Some of our recent success stories:

- Over 20,000 MW pipeline of onshore and offshore wind projects in several European markets (2020)

Buyer's Commercial and Technical Advisor at 30% stake disposal of a leading international wind project development and construction company.

- 1,100 MW Seagreen 1 Offshore Wind Farm, Scotland (2020)

Buyer's Commercial and Market Advisor at 49% stake disposal and financial closing.

- 650 MW Wind Farm project in Northern Sweden (2006–2021)

Prefeasibility and feasibility studies, Buyer's Technical Due Diligence, Construction Management, HSE Management. Europe's biggest onshore wind power project built to date.

- A pipeline of three wind farms totaling 144 MW in Vietnam, (2020–ongoing)

Lender's Technical Advisor including Technical Due Diligence, construction and commissioning monitoring, and annual O&M monitoring throughout the loan period. First wind farms in Vietnam to be built on international non-recourse Project Finance basis.

- 600 MW onshore wind project portfolio, Turkey (2020)

Technical Due Diligence, assessment of expected remaining lifetime, developing options for measures to enhance remaining lifetime. One of the largest renewable energy portfolios in Turkey.

- 126 MW Had Kang Han Wind Farm and 260 MW Hanuman Wind Farm in Thailand (2013–2019)

Technical Advisor for EPC and WTG bidding and contracting, Owner's Engineer during construction. The projects are among the biggest wind farms in operation in South East Asia.

- 738 MW Alto Setão III Wind Farm in Brazil (2014–2015)

Full Project Management service package including e.g. permit and license management, budget and contract administration, engineering design review, and site supervision during construction and commissioning. Brazil's largest wind farm project to date.



Our clients

We have successfully provided our services internationally to banks, project developers, power utilities and grid operators, turbine suppliers, land owners, investment funds, government agencies, research institutes, municipalities, regional governments, industrial companies and private investors. AFRY maintains successful relationships, lasting over decades, with many of our clients.

25+
years experience
in wind power



AFRY is a European leader in engineering, design, and advisory services, with a global reach. We accelerate the transition towards a sustainable society.

We are 16,000 devoted experts in infrastructure, industry, energy and digitalisation, creating sustainable solutions for generations to come.

Making Future



Our wind power professionals, market and commercial experts, environmental specialists, and experienced project management organisations work together as coordinated regional teams and are able to support your wind energy business no matter where your projects are located.