



# WIND ENERGY SERVICES

## QUALITY ASSURED | RISKS CONTROLLED

Environmental concerns over use of conventional modes of energy and added concerns of supply security and price volatility have led Governments and industries worldwide towards harnessing, generating, distributing and shifting to renewable energy sources.

SGS customized solutions extend beyond compliance to deliver excellence and a return on your investment. Our expertise enables the future-proofing of operations, asset life extension and rapid response to turbine failure.

Whether you choose end-to-end project management, or a modular approach – for those only involved in one phase of a project – our focus is on quality and productivity, safety and efficiency. We support your project from concept to operation and finally to decommissioning, through consultancy, testing, inspection and certification.

Truly independent, our third-party advisory services minimize your risk. With a global presence, we have a history of successfully executing large-scale, complex international projects. Our people speak the language, understand the culture of the local market and operate globally in a consistent, reliable and effective manner.

Starting with concept mapping, through to operation, our experts provide consultative support at every step of a project's life cycle to ensure sustainable and reliable performance. Provision of an uninterrupted power supply is the pinnacle of operational excellence, to help you achieve this we support you during every phase:

### CONCEPT

Site assessment measures the characteristics of a proposed site as well

as those of the chosen wind turbines, considerations include technical optimisation and environmental and financial parameters.

### DESIGN

Effective risk management will assist project teams with decision-making in order to ultimately ensure that projects are executed with minimal risk, as well as supporting the project management team in design verification, risk identification, qualification and handling, assuring greater certainty in costing, scheduling and financial planning.

### MANUFACTURING

Quality and safety assessment ensures that the chosen turbines and their components are manufactured to the required quality and procedures, thereby reducing the risk of damage and/or failure, as well as safeguarding value in the supply chain.

### CONSTRUCTION & COMMISSIONING

Conducting quality and compliance due diligence will ensure projects meet national and international standards, project elements such as scope, quality, costs, HSE, scheduling and technical subjects must comply with original specifications from tendering to final acceptance. SGS is committed to delivering the highest standards of HSE and recognise that minimising risk is vital to the success of a project.

### OPERATION

In the operational phase, SGS will focus on optimising asset life, minimising opex, downtime and resulting revenue loss, ensuring rapid response rates and

safeguarding operational efficiencies. Document reviews, inspections and testing ensure risks and damage are identified early and remedial action implemented accordingly.

Working with manufacturers, operators, owners, lenders and investors, our experts support every aspect of onshore and offshore wind farm development. Our successful track record demonstrates the truly global reach of our capabilities.

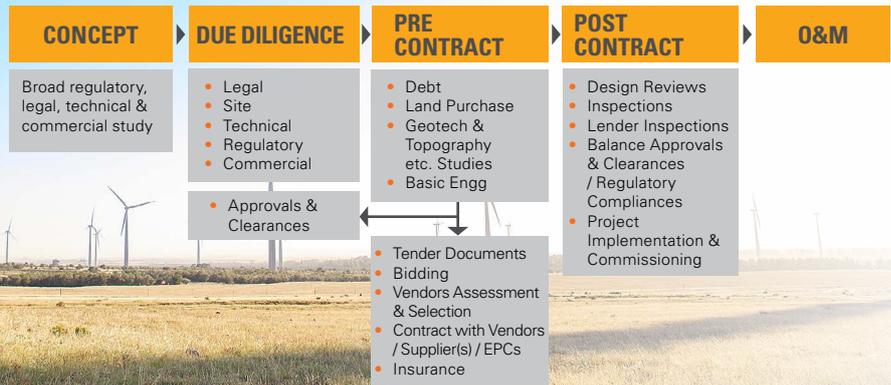
### OUR ACCREDITATION IS YOUR ASSURANCE

SGS offers Type Certification and Type Testing of wind turbines and components according to IEC 61400 (based on ISO 17065 accreditation and ISO 17025). We have implemented an Information Security Management System according to ISO 27001 and we are ISO 17020 accredited for inspections.

In Germany, the Federal Maritime and Hydrographic Agency (BSH) authorises us to carry out project certification for offshore wind farm projects. SGS (Spain) is also a certified training provider as per the GWO standard (Global Wind Organisation) for Basic Safety Training (BST) both onshore and offshore.

**SGS**

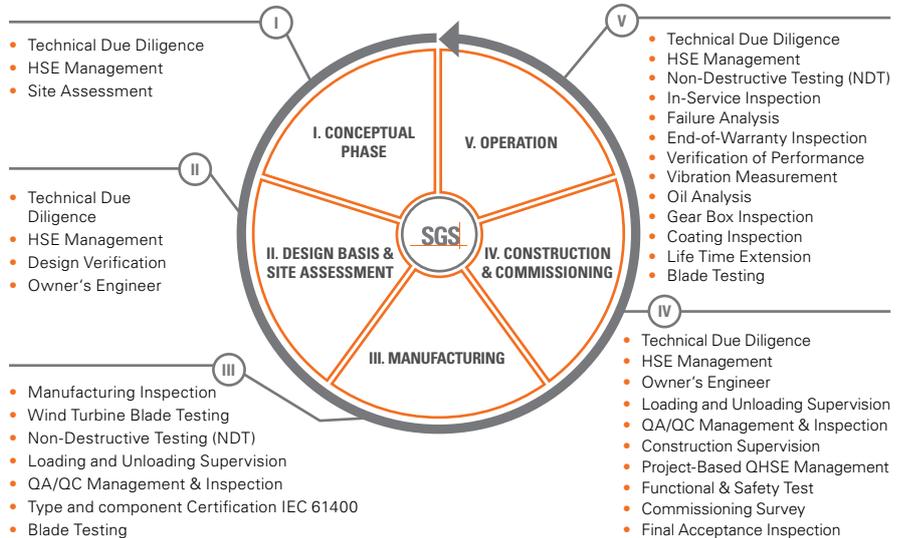
## PROJECT DEVELOPMENT STAGES



## WIND TURBINE BLADE TESTING

Our innovative global Wind Energy Technology Center (WETC), located near to the harbour of Tianjin, China, conveniently accessed by the entire Asian region, is an innovative testing centre for wind turbine blades and is equipped with the latest technology. As a result, we can offer you comprehensive full-scale wind turbine blade testing for onshore and offshore wind rotor blades. WETC offers you the expertise of experienced international engineers close to your production facilities.

## SERVICES FOR WIND POWER PROJECTS THROUGHOUT VALUE CHAIN



## WHY SGS?

SGS is the world's leading inspection, verification, testing and certification company. SGS is recognised as the global benchmark for quality and integrity. With more than 89,000 employees, SGS operates a network of over 2,600 offices and laboratories around the world.

We provide competitive advantage, drive sustainability and deliver trust. At SGS, we are continually pushing ourselves to deliver innovative services and solutions that help our customers move their businesses forward.

Efficiency and cost-optimization are no longer the sole drivers in business development strategies. Successful businesses recognize the importance of offering their workforce continuous development and training. Motivated and effective teams create industry leaders.

## WHY CHOOSE SGS WIND ENERGY SERVICES?

SGS Wind Energy Services provides you a one-stop solution while meeting the quality compliance requirements. As the world's leading provider of inspection, verification, testing and certification, we offer you proven experience in the wind energy sector, state-of-the-art technology, unique global reach, highly skilled personnel and unrivaled experience in the renewable energy sector. We offer efficient turnaround times, based on the lean management practice. Plus, our robust information security management ensures that your intellectual property is protected. As a result, we are the preferred choice for clients that require trusted quality services for their wind energy projects across the world.

## CONTACT US



# SGS

WHEN YOU NEED TO BE SURE