



SUPPLY CHAIN SERVICES

PROTECTING YOUR INTEREST WHEN BUYING OR SELLING OVERSEAS

In the increasingly global wind energy market, products and components are produced wherever is most favourable and then shipped to their final destination. Industrial producers in all markets strive to offer the highest possible quality at competitive prices. Indeed, this aim to offer superior parts and raw materials for the best price-quality ratio drives an ever-increasing need for greater control

over the supply chain. In this context, SGS Wind Energy Services provides a broad range of Supply Chain Services, assisting our clients to monitor each juncture in the flow of their materials and resource processes. We aid producers in assessing their suppliers, supervise production and track delivery schedules. This entails physically inspecting and checking the quality and quantity of

deliveries and testing samples. Thanks to our extensive global network, we can rate vendors in every corner of the world while respecting tight deadlines. Moreover, SGS can trace the entire supply chain: from mines and steel mills to turbine manufacturing factories and construction sites, SGS assures that quality is guaranteed every step of the way.

INCREASED INTEGRATION AND COOPERATION IN THE **SUPPLY CHAIN**

QUALITY AUDIT / APPROVAL OF MANUFACTURER

When sourcing overseas, vendor capability audits help assess potential suppliers. Existing suppliers can also be audited on a regular basis to ensure quality over the long term.

This service involves conducting a technical audit on the vendor's premises to appraise its ability to undertake a specific order while meeting the client's requirements or their own accepted proposals. Services range from single visits to complete vendor appraisals and control schemes.

QA/QC MANAGEMENT AND INSPECTION

QA/QC inspections are performed to verify the quality of materials, parts and final products. The objective of such inspections is to independently assure that the activities of a specified project are being performed in accordance with all contractual specifications, codes and standards or government regulations. This is verified through checks, audits, inspections and witnessing. This service is carried out completely independently of both the individual manufacturer or (sub-) contractor as well as the purchaser or final user.



Quality Assurance (QA) provides the facility owner with adequate confidence that a structure, component, material or system meets pre-stated quality standards and will perform satisfactory throughout its service life.

Quality Control (QC) is concerned with the actual measurement, testing or supervision of the manufacturer's own final product control, either by means of inspection of each unit or by sample testing. This includes Non-Destructive Testing (NDT) and Coating Inspections. Before loading, the general appearance of the goods, including packing, marking, quantity, etc. can be verified.

LOADING / UNLOADING SUPERVISION

During loading and/or unloading operations, SGS verifies that the goods are correctly presented, properly handled and safely secured on the means of transport, whether container, ship or truck. SGS specialists provide the client with the assurance that the quality and safety requirements are met and that the goods are handled correctly, safely and according to specifications.



EXPEDITING

The purpose of SGS's expediting service is to ensure the delivery of purchased goods according to a pre-determined and agreed upon delivery schedule or critical path network. It is the task of the expeditor to detect and analyse the areas that might cause or entail delays.

The expeditor must obtain or reaffirm delivery commitments from suppliers, fully investigate all aspects of the supplier's scheduling (which illustrates the practicality of achieving such commitments) and physically check the progress of all functions of the supplier's

operations conducted by its engineering, procurement, production and shipping departments.

The objective of this service is to suggest constructive solutions to meet schedules, keep the client well informed of the current situation and of the decisions taken to meet the pre-determined schedule. SGS can offer its expediting services as a number of selected disparate activities, as a sequence of activities forming a chain within the network plan, or indeed so as to span the entire continuum of project activities.

CONSTRUCTION SUPERVISION

In order to verify that the activities at the construction site are being performed in accordance with the technical specifications of the wind turbine manufacturer, SGS supervises all civil, electrical and mechanical works. During wind project construction and turbine erection, local Health, Safety and Environmental (HSE) regulations are often applicable. SGS oversees all works on the construction site in collaboration with local HSE experts.

REPORTS

All audit, supervision and inspection services are subsequently summarised by SGS in a detailed report including proper photo documentation, if applicable.

CONTACT

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**SGS IS THE WORLD'S LEADING
INSPECTION, VERIFICATION, TESTING
AND CERTIFICATION COMPANY.**

SGS

WHEN YOU NEED TO BE SURE