



# SGS工业服务

## SGS INDUSTRIAL SERVICES

以专业服务推动经济、环境和社会的和谐共赢，这就是SGS的**永续成长之道**

SGS

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## 关于SGS ABOUT SGS

SGS是全球领先的检验、鉴定、测试和认证机构，是公认的质量和诚信的基准。SGS集团在全球各地共有70,000多名员工，分布在1,350多个分支机构和实验室，构成了全球性的服务网络。

SGS通标标准技术服务有限公司是SGS集团和隶属于原国家质量技术监督局的中国标准技术开发公司共同建成于1991年的合资公司，在中国设立了50多个分支机构和几十间实验室，拥有10,000多名训练有素的专家。

SGS的服务能力覆盖农业、矿产、石化、工业、消费品、汽车、生命科学等多个行业的供应链上下游。近年来，我们在环境、新能源、能效和低碳领域不断创新、锐意进取，致力于以专业的检测和认证服务推动经济、环境和社会的和谐共赢，为国内外企业、政府及机构提供全方位可持续发展解决方案。

SGS is the world's leading inspection, verification, testing and certification company. SGS is recognized as the global benchmark for quality and integrity. With more than 70,000 employees, SGS operates a network of over 1,350 offices and laboratories around the world.

SGS-CSTC Standards Technical Services Co., Ltd. was founded in 1991 as a joint venture between SGS Group and China Standard Technology Development Corp., under the State Administration of Quality Technical Supervision. SGS-CSTC boasts over 50 branches and dozens of laboratories with over 10,000 professionals working for the company.

Our capabilities are competently embodied in servicing the supply chains of various sectors such as agricultural, minerals, petrochemicals, industrial, consumer products, automotive and life science. For years, SGS has geared up its innovation efforts and collateral resources in the areas of environmental protection, alternative energy, energy efficiency and low carbon initiatives. The testing, inspection and certification services we provide help local and overseas businesses, governments and institutions develop sustainable solutions that balance People, Planet and Profit.

永续  
成长  
之道 | SUSTAINABLE  
GROWTH  
SOLUTIONS



## 企业可持续发展的不二方案

### MANAGING YOUR BUSINESS PROFITABLY AND RESPONSIBLY FOR THE LONG TERM

SGS相信，低碳经济、环境保护、绿色产品和社会责任都是当今世界的重要议题，更是企业未来竞争力的焦点。汇集全球60,000名专业人士的智慧和热情，SGS致力于在农业、矿产、石化、工业、能源、消费品、汽车、生命科学等行业，为企业、政府及公共机构量身定制可持续发展解决方案，实践经济、环境和社会的和谐共赢。

SGS believes in the global importance of a low carbon economy, environmental protection, green products and corporate social responsibility – these areas will define your company's future competitive edge. Around the world, the knowledge and passion of 60,000 SGS professionals are ready to help you excel in these areas. We work in a multitude of industries, including agriculture, minerals, petrochemicals, industrial, energy, consumer products, automotive and life science. SGS develops customized Sustainable Growth Solutions for corporations, governments and public organizations to enhance Profit, Planet and People with Professionalism.



## 关注环保节能 PRESERVING THE PLANET

为帮助政府、公共机构和企业在积极发展经济的同时减少对环境带来的负面影响，SGS精心打造了多项环保解决方案，包括注册能源管理师培训、公司办公场所的能源审计、节能量的检测与确认、节能设备的检验与测试、EN16001, GB/T 23331能源管理体系、评估产品的碳足迹、清洁发展机制(Clean Development Mechanism, CDM)、碳足迹培训、ISO 14064-1核证、无公害产品的确认(如欧盟REACH、美国CPSIA)、产品生命周期评估(如包装材料)、生态设计建议(如欧盟ErP符合性)、绿色供应链管理方案、包装与物流优化方案、环境监测服务、可持续发展相关培训等。

To help governments, public institutions and corporations grow while reducing their negative impact on the environment, SGS has developed a comprehensive range of environmental solutions, including Certified Energy Manager (CEM) training, workplace energy auditing, energy savings verification, energy saving equipment evaluation and testing, EN 16001, GB/T 23331 Energy Management Systems, product carbon footprint assessment, Clean Development Mechanism (CDM), carbon footprint training, ISO 14064-1 verification, restricted substance compliance (e.g. REACH in the E.U. and CPSIA in the U.S.), product life cycle assessment (e.g. packaging materials), eco-design consultancy (e.g. E.U. ErP compliance), green supply chain management program, packaging and logistics eco-program, environmental testing services, related training programs for sustainable development divisions.

## 履行社会责任 VALUING PEOPLE

企业的可持续发展，离不开和利益相关各方的互信互赖。消费者、媒体、非政府组织、投资者都越来越关心企业的产品是否是在合法、人道的环境下生产的、员工是否在公平受基本保障的工作环境中工作。为保障品牌声誉和进行风险管理，SGS可进行第三方社会责任审核，如SAI (SA 8000)、BSCI(倡议商界遵守社会责任组织)、ETI(道德贸易联盟)、ICS(社会公约)、WRAP(服装行业环球标准组织)等。亦可根据客户需求进行第三方审核。为帮助行业领袖企业回应各界对企业社会责任的更高期望，SGS还可根据客户需求提供最新ISO26000社会责任指引及SRA (Sustainability Report Assurance)社会责任报告验证服务。

Sustainable development inextricably lies in mutual trust, interdependence and the competency of all stakeholders. Consumers, NGOs, investors and the media are all increasingly concerned about whether the products are produced in legal, humane and environmentally conscious ways by employees in a fair working environment with fundamental safeguards. To protect brand reputations and conduct risk management, SGS can conduct third-party social responsibility audits, such as SAI (SA 8000), BSCI (Business Social Compliance Initiative), ETI (Ethical Trading Initiative), ICS (Initiative Clause Sociale), WRAP (Worldwide Responsible Accredited Production). To help industry leaders respond to the ever-higher expectations for corporate social responsibility, SGS also provides the new ISO 26000 certification and Sustainability Report Assurance (SRA) services.

## 维持竞争优势 IMPROVING PROFITS

凭借全球网络和技术优势，SGS可率先掌握各国法规和指令的更新，并在第一时间研发出检测方案，协助企业快速应对多变的贸易规则，把产品和服务快速送入市场。在激烈的市场竞争中，拥有完善的流程和系统是企业成功的关键，SGS根据国际或地方的体系标准、行业标准和企业标准，为各行业提供全方位审核及认证服务，涵盖ISO 9001, ISO 14001, OHSAS 18001, ISO/TS 16949, ISO 27001, TAPA FSR, ISO 28000, 服务认证TM, 服务承诺认证, 神秘顾客评审、培训等，帮助企业优化流程、改善体系、提升技能、持续发展。

Armed with an unrivalled technical expertise and global network, SGS is well-positioned to ascertain the latest regulatory updates across the world markets and deliver a full-range of compliance solutions to customers who can then respond promptly to the ever-changing environment and increase the speed to market. Improving processes and management systems is the key to business success in fiercely competitive markets. SGS provides wide-ranging certification and training services in pursuant to international and local standards across various industries and organizations, covering ISO 9001, ISO 14001, OHSAS 18001, ISO/TS 16949, ISO 27001, TAPA FSR, ISO 28000, service commitment certification, mystery shopper etc. We help customers optimize processes, improve systems, enhance capabilities, and sustain continuous development.



## 工业服务 INDUSTRIAL SERVICES

SGS工业服务在中国大陆现有员工超过1,100人，在13个城市派驻有检验员和业务员，在10个城市配备有实验室：上海、广州、天津、厦门、宁波、武汉、重庆、青岛、烟台及大连。凭借完善的全球网络，SGS工业服务能为基础设施、能源、石化工程等多个领域提供专业且快捷的检测、检验及认证服务。

基础设施服务作为SGS工业服务主要业务线之一，致力于为您的产品及工程项目提供包括设计、制造、施工、安装、验收、使用及维护各个环节在内的检测、检验及认证服务。

能源服务，SGS在发电和输配电领域服务的历史可以追溯到20世纪初。除了在传统电力领域的服务外，SGS亦在新能源、能效和低碳领域不断创新、锐意进取，为行业提供低碳节能的解决方案和技术支持，以此推动经济、环境与社会的和谐共赢。此外，SGS在天津还拥有亚洲最大的风机叶片实验中心。

石化工程服务，对于石油、天然气与石化产业而言，整合性、安全性和可靠性是受到重点关注的。SGS遍及全球的专业团队能够为各类固定资产提供贯穿整个设计与运行的多样化服务，确保装置、材料、设备、设施乃至整个项目符合质量和性能的要求。

With around 1,100 employees in mainland China, SGS Industrial Services has equipped with inspectors and sales in 13 cities and laboratories in 10 cities, which is Shanghai, Guangzhou, Tianjin, Xiamen, Ningbo, Wuhan, Chongqing, Qingdao, Yantai and Dalian. Relying on its worldwide network, SGS Industrial Services is able to provide professional and efficient testing, inspection and certification services for such industries as infrastructure, energy, petrochemical, etc.

As one of three segments of SGS Industrial Services, Infrastructure Services is committed to provide testing, inspection and certification services covering all phases including design, manufacturing, construction, installation, commission, using and maintenance.

SGS' involvement in power generation, transmission and distribution can be traced back to the early 1900s. SGS has gained abundant of practical experience and great reputation in this industry providing testing, inspection and certification services which focus

on product conformity, on-time delivery and safety. In addition to conventional power generation, SGS Energy Services has also made lots of achievements in renewable energies, energy efficiency and low-carbon field, promoting win-win harmony of economy, environment and society through efficient solution and technical supports.

Integrity, safety and reliability are major concerns for those involved in the oil, gas and petrochemical industry. Our global network of experts provides a diverse portfolio of services to ensure that installations, materials, equipments, facilities and projects to meet all quality and performance requirements, whether they are regulatory, voluntary or customer based. With extensive experience and expertise, SGS Petrochemical Services is in an excellent position to serve our clients in the oil, gas and petrochemical industry.



## 基础设施服务 INFRASTRUCTURE SERVICES

基础设施服务作为SGS工业服务三大事业部之一，致力于基础设施建设中有关材料、产品、工程等领域提供全面的第三方检验、检测和认证服务，为您的工程和产品质量保驾护航。

### 主要服务对象（工程/产品/材料）

- 铁路、公路、城市轨道交通项目，包括桥梁与隧道分项
- 机场、码头、车站项目
- 水处理项目（脱盐、管线、污水处理等）
- 住宅与商业建筑（商场、酒店、医院、仓库等）
- 建筑相关设施（电梯、电器安装、消防等）
- 建材（水泥、混凝土、砖块等）

### 主要服务

- 产品CE认证
- 供应链检验服务
- 焊工培训和焊接工艺评定
- 无损检测
- 无损检测培训及考试
- 金属材料检测
- 高分子材料测试
- 防滑、防火阻燃测试
- 常规建筑材料、装饰装修材料、建筑节能材料、石材检测及认证、防水及密封材料、门窗材料等测试
- 工程现场检测、测量、检验

### 主要工程业绩

- 武广客专新建动车段：单桩复合地基承载力检测
- 合蚌客专东芦山隧道衬砌质量：无损检测项目
- 中铁十六局集团有限公司成渝客运专线CYSG2标：建筑材料检测
- 台湾高速铁路所有轨道工程，包括车站、机场、桥梁
- 中铁二十一局集团京石铁路客运专线鹿泉制梁场900吨在役运梁车无损检测服务
- 中铁二十二局集团有限公司金温扩能改造项目桥梁桩基检测
- 中环线A4.2大柏树立交工程
- 中国邮政快速物流基地（南京）西门子安装项目土建检测
- 高雄捷运高速铁路工程
- 西气东输工程（新疆段）
- 上海轨道交通2-3、7-11、13号线钢轨焊接无损检测
- 上海浦江镇公共交通配套工程轨道工程
- 明珠线南站改建项目

无论您是建筑工程业主方、工程建设方、工程监理方、船厂、机车厂、工程机械厂（提梁机、架桥机、盾构机等）、钢铁厂、管件厂、压力容器厂、铸造厂、锻压厂、工业泵厂、压缩机厂、阀门厂、管道厂、矿业业主（金属、煤、轴等）、采矿设备厂冶炼厂、精炼厂、水泥厂、化工厂等，凭借着公正、准确、迅速的服务理念，强大的实验室技术能力与完善的全球化网络，SGS将是您最理想的合作伙伴。

Infrastructure Services, as one of three segments of SGS Industrial Services Department is committed to infrastructure development in relation to materials, products, engineering and other fields to provide comprehensive third-party inspection, testing and certification services for your engineering and product of quality escort.

### SERVICE OBJECTIVES (ENGINEERING/PRODUCTS/MATERIALS)

- Railways, Roads and Highways, Urban Rail Transit Projects, Bridges and Tunnels Breakdown;
- Airports, Ports, Station Projects
- Water Projects (Desalination Plants, Pipelines, Sewage, etc)
- Residential and Commercial Buildings (Shopping Malls, Hotels, Hospitals, Warehouses, etc)
- Construction Facility Management (S&V of Lifts, Escalators, Electrical Installations, Fire Safety, etc)
- Civil Construction Materials (Cement, Concrete, Bricks, Soil, Reinforcement bars, etc)



## SERVICE ITEMS

- Product Certification
- Inspection
- Verification of Calculations/Drawings before Construction
- Non-destructive Testing
- NDT Training and Examination
- Metal Material Testing
- Polymer Material Testing
- Slip & Fire Resistance Testing
- Testing Services for General Building Materials, Decorating and Refurbishing Materials, Energy Saving Materials, Natural Stone, Waterproofing Materials, Doors and Windows Materials, etc.
- Construction Witness, Monitor and Inspection

## MAJOR ACHIEVEMENTS

- Wuhan – Guangzhou Passenger Line of Pile Composite Foundation Testing Project
- He – Bang Passenger Line of Non-destructive Testing Project
- China Railway 16th Bureau Group Co., Ltd. of Chengdu Passenger Line CYSG2 Project
- Taiwan Rapid Transit High Speed Including Station, Airport and Bridge
- China Railway 21st Bureau Group Co., Ltd. of 900 Tons Girder Car of In-service NDT Project
- China Railway 22nd Bureau Group Co., Ltd. of Bridge Pile Foundation Testing Project
- Shanghai Dabaishu Interchange Project
- China Post Fast Logistics Base (Nanjing) of Siemens Installation Project for Construction Testing
- Kaohsiung Rapid Transit High Speed
- West-east Gas Transmission Project
- NDT of Rail Seam for Shanghai Metro Line 2-3, 7-11 and 13
- Shanghai Pujiang Town Mass Transit Conveyance System Railway Project
- Pearl Line of South Station Renovation Project

With SGS prompt and precise service ideas, strong laboratory capabilities and perfect global network, whatever you are Engineering of Project Owners, Construction Units, Supervisors or Manufacturers involving in Locomotive, Cement, Steel, Pipe, Mines (Metal, Coal, and Uranium etc.), Pressure Vessels, Machinery, Castings & Forging, Mining Equipment, Smelters, Refineries, Cement, Steel & Pipe Mills, etc. We believe that SGS Infrastructure Services will be your ideal partner.



## 石化工程服务 PETROCHEMICAL SERVICES

SGS在石化领域的客户广泛，服务涉及到国内外许多重要石化项目的检验、监督、监理等方面。在过去的几年中突出的石化项目服务包括南海壳牌项目服务、赛科项目服务、扬一巴项目服务等。

### 主要提供的服务

- 石化上游设备的检验、监督、监理、测试、认证
- 石化中下游设备的检验、监督、监理、测试、认证
- 石化设备制造厂的评估、审查
- 石化供应商的资质预认证
- 石化设备制造厂的人员资质的认证
- 石化设备制造厂的相关程序的认证
- 石化设备监督
- 石化项目监理
- 石化设备材料的测试
- 石化设备制造文件的审查
- 石化项目的咨询
- 石化项目的协调
- 石化项目的催交
- 储罐检验

### 主要石化项目业绩

- 南海壳牌乙烯项目服务(中海油、壳牌项目)
- 赛科项目服务
- 扬子-巴斯夫乙烯二期项目服务
- 柏科德LNG项目服务
- 广东大鹏LNG项目服务
- 中石化伊朗项目服务
- 南通SCX工程、千代田与三菱项目
- 宁波丙烯酸纤维项目、千代田与三菱项目
- 宁波三菱C-PTA项目、三菱化工

Petrochemical Industry Services have made extraordinary achievements and we have many customers. We have served a lot of key petrochemical projects both in China and abroad by means of inspection, supervision and so on. In the past years, we have succeeded in serving some outstanding petrochemical projects such as CNOOC-Shell Project, SECCO Project and Yangtz-BASF Project.

### PETROCHEMICAL INDUSTRY SERVICES MAINLY PROVIDE THE FOLLOWING SERVICES

- Inspection, supervision, testing and certification for upstream equipment of petrochemical industry
- Inspection, supervision, testing and certification for mid-stream and downstream equipment of petrochemical industry
- Evaluation and review of petrochemical equipment manufacturers
- Certification of petrochemical suppliers
- Certification of personnel from petrochemical equipment manufacturers
- Certification of relevant processes of petrochemical equipment manufacturers
- Supervision of petrochemical equipment

- Supervision of petrochemical equipment
- Supervision of petrochemical projects
- Testing of raw materials for making petrochemical equipment
- Review of documents of petrochemical equipment manufacturing
- Consulting about petrochemical projects
- Coordination service for petrochemical projects
- Expedition service for petrochemical projects
- Tank inspection

### MAJOR REFERENCES OF SERVING PETROCHEMICAL PROJECTS BY PETROCHEMICAL INDUSTRY SERVICES ARE

- Ethylene Project of CNOOC-Shell
- SECCO Project
- Second Phase of Ethylene Project of Yangtz-BASF
- LNG Project of Bechtel
- LNG Project of Guangdong Dapeng
- Iran Project of Sinopec
- Nantong SCX Project of Chiyoda and Mitsubishi
- Ningbo Acrylic Acid Fiber Project of Chiyoda and Mitsubishi
- Ningbo C-PTA Project of Mitsubishi Chemical



### 主要客户包括

- 壳牌
- 中海壳牌石化有限公司
- 中石油
- 中石化及其附属公司
- 扬子石化-巴斯夫有限责任公司
- 上海赛科石油化工有限责任公司（中石化与BP合资）
- 中海油
- 沙特阿拉伯阿美公司
- 柏克德
- 福陆工程公司
- 埃森兰万灵
- 西比埃&鲁玛斯
- 福斯特惠勒
- 德希尼布
- 东洋公司
- 日本日挥
- 千代田
- 三菱化学工程公司（MCEC）- 三菱重工集团的子公司
- 毕拓
- 巴西淡水河谷公司
- 力拓
- 华南蓝天航空油料有限公司

### 监检的主要设备包括

- 各类锅炉，压力容器(国标，国际标准)
- 动设备(泵，压缩机等)
- 钢结构
- 管道，管件
- 阀门
- 仪表
- 电气设备
- 大宗材料

石化工业业务广泛，成熟，同时在不断发展，扩展自己的服务，开拓新的业务，为客户提供更多，更全的一站式综合服务。

### THE MAJOR CUSTOMERS OF PETROCHEMICAL SERVICES ARE

- Shell
- CNOOC-Shell Petrochemical Company Limited (CSPC)
- Petro China
- Sinopec and its subsidiary
- Yangtze-BASF Petrochemical Company Limited. (YPC)
- SECCO (Sinopec and BP Joint Venture)
- CNOOC
- ARAMCO Co., Saudi Arabia
- Bechtel
- Fluor
- SNC-Lavalin
- CBI & Lummus
- Foster Wheeler
- Technip
- Toyo Engineering
- JGC
- Chiyoda
- Mitsubishi Chemical Engineering Company (MCEC) – a subsidiary of MHI Group.
- BHP Billiton
- Vale
- Rio Tinto
- South China Bluesky Aviation Oil Co. Ltd

### EQUIPMENT PETROCHEMICAL INDUSTRY SERVICES SUPERVISE AND INSPECT INCLUDES

- Boilers and pressure vessels of various types as per GB and international standards
- Rotating equipment such as pumps and compressors
- Steel structures
- Pipelines and pipe fittings
- Valves
- Instruments
- Electric equipment
- Bulk materials

Petrochemical Industry Services are well established while still developing continuously by expanding the existing business as well as creating new business in order to provide our customers with a one stop service more variously and more comprehensively.

# 能源服务 ENERGY SERVICES

电力对经济和社会的发展起着不可或缺的作用。SGS能源服务专注于电力行业，为电力的安全高效供应保驾护航。

SGS在发电和输配电领域服务的历史可以追溯到20世纪初。长久以来，SGS致力于提供针对产品符合性、交付时效性和安全性的检验、测试和认证服务。在行业内积累了丰富的经验和良好的声誉。除了在传统电力领域的服务外，SGS亦在新能源、能效和低碳领域不断创新、锐意进取，为行业提供低碳节能的解决方案和技术支持，以此推动经济、环境与社会的和谐共赢。

SGS能源服务主要涵盖的领域：

## 可再生能源

- 风力、太阳能发电
- 地热、海洋能发电
- 生物质能发电

## 常规能源

- 抽水蓄能发电
- 燃煤发电
- 燃气发电（简单循环、联合循环）
- 余热发电

## 核能

- 压水反应堆、沸水反应堆
- 核燃料及组件



## 输配电

SGS不仅为业主、政府部门等投资监管方提供设备监造、技术尽职调查等服务，也为工程公司、安装公司等项目执行方提供现场工程师、无损检测、项目管理等服务，还为设备制造商提供零部件和产品测试、检验和认证服务等。

SGS通过检验、鉴定、测试和认证等主要服务模式为客户提供质量管理、成本管理、工期管理、合约管理以及信息管理服务。

## 检验

- 原材料、部件和产品在制造的各个阶段中的检验
- 现场工程管理和交期管理

## 鉴定

- 设计审核、技术咨询

## 测试

- 材料测试
- 无损检测
- 产品测试

## 认证

- 人员、设备和程序是否符合法律法规或标准
- 进、出口证书
- SGS公正、专业、快捷的服务总能满足业内的各个利益相关方的需求
- 产品的ASME、IBR、CE等认证

Power plays an indispensable role to the development of economy and society. SGS Energy Services focuses on the power industry and commits to ensure safe and efficient power supply.

SGS' involvement in power generation, transmission and distribution can be traced back to the early 1900s. SGS has gained a great deal of experiences and reputations via providing inspection, testing and certification services that focus on products conformity, on-time delivery and safety. Besides conventional power generation, SGS has also made lots of achievements in renewable energies, energy efficiency and low-carbon field, promoting win-win harmony of economy, environment and society through efficient solutions and technical support.

The main sectors SGS Energy Services SBU involved in:

## RENEWABLE ENERGY

- Wind / Solar
- Geothermal / Ocean
- Biomass

## CONVENTIONAL ENERGY

- Pump Storage
- Coal Fired
- Gas Fired (simple cycle, combined cycle)
- Heat Recovery

## NUCLEAR ENERGY

- Pressurized / Boiling Water Reactor
- Fuel / Fusion

## POWER TRANSMISSION & DISTRIBUTION

Not only does SGS provide manufacturing inspection, technical due diligence services for owners and government organizations, but also provides field engineer, NDT, project management services for engineering and construction companies. SGS also serves manufacturers by component testing and product certification.

SGS delivers quality management services, cost management, expediting and contract management as well as information management services to our clients through the below businesses models:

## INSPECTION

- Carries out inspections of materials, components and products at all stages of manufacturing
- Construction supervision and expediting

## VERIFICATION

- Design verification, technical consulting

## TESTING

- NDT
- Materials testing
- Product testing

## CERTIFICATION

- Certification of people, procedure, or equipment of conformity to regulation or standards
- Import & export certification
- SGS' impartial, professional, fast-response services always meet the requirements of the stockholders
- ASME, IBR, CE certification for the products



## 能源生命周期典型服务 ENERGY LIFE-CYCLE TYPICAL SERVICES

一个电力项目从设计评估、设备制造、安装调试到投入运行，其生命周期可达到20-30年，甚至更长。在此期间，设备的任何缺陷都有可能影响到电力的安全供应，甚至导致严重的事故。如何在如此长的时间内，及时地排除潜在的安全隐患，保障设备的安全高效运行，这一直是业主、设备供应商等各利益相关方关注的。

凭借着资深的专家团队和强有力的全球性技术支持，SGS能源服务提供的专业服务帮助客户在发电、输配电的项目中降低风险，实现效益最大化。SGS能源服务贯穿发电和输配电工程的整个项目周期，包括勘测、可行性研究、设计制造、安装调试及在役服务等各个阶段。

### 项目前期阶段

- 招投标支持、技术咨询、项目管理、初设评估、合约工程师、能源管理培训

### 设计及评估阶段

- 业主代表、设计审核、设计标准培训

### 制造采购阶段

- 材料测试、无损检测、设备监造、型式试验、出厂试验、认证服务、质量健康安全环境管理

### 运输阶段

- 装载和卸载监督、包装、运输的质量和安全生产检查

### 安装调试阶段

- 合约管理、现场协调、安装、调试监理、启动调试服务、现场报告评审、验收、质量健康安全环境管理

### 在役阶段

- 定期检查服务、设备性能验证和评估、失效分析、油品分析、状态监控、质量、健康、安全和环境管理、能源管理体系认证、能源审计

From design, manufacturing, installation and commissioning to commercial operation phase, a power project lasts for decades. During this period, any failure of equipment would lead to serious consequence. How to eliminate potential defects and ensure efficient operation? It is always a hot topic which owners and equipment suppliers are interested in.

Backed by professional experts and technical support of worldwide networks, SGS Energy Services helps clients to decrease the risks of power projects and maximize their benefits. SGS provides professional expertise during different phases of the whole project life cycle of power generation, transmission and distribution, including conception phase, design & assessment phase, manufacturing & procurement phase, transportation phase, installation & commissioning phase, in-service phase, etc.

### CONCEPTION PHASE

- Tending and Bidding Support, Technical Consultancy, Project Management, Preliminary Design Verification, Contract Engineer, Energy Management Training

### DESIGN AND ASSESSMENT PHASE

- Owner's Representatives, Design Review, Training for Design Standards

### MANUFACTURING AND PROCUREMENT PHASE

- Material Testing, NDT, Manufacturing Supervision, Type Testing, Delivery Testing, Certification Services, QHSE Management

### TRANSPORTATION PHASE

- Loading/Unloading Supervision, Quality and Safety Control to Packing and Transportation

### INSTALLATION AND COMMISSIONING PHASE

- Contract Management, Site Coordination, Installation / Commissioning Supervision, Start-up Service, Verification of As-built Documentation, QHSE Management.

### IN-SERVICE PHASE

- Periodical Inspection Services, Performance Verification, Failure Analysis, Oil Analysis, Condition Monitoring, QHSE Management, Certification of Energy Management System, Energy Audit



## 风能技术中心 WIND ENERGY TECHNOLOGY CENTER

### 叶片全尺寸测试

随着叶片尺寸的增大，验证叶片的可靠性愈加重要，除叶片结构外，关注点还包括多层材料组合形成的复合材料。叶片在服务寿命内，承受着极严酷的载荷，包括自然界中极端载荷和循环载荷。

叶片失效会严重影响到安全性，机组非计划停运，甚至造成不良社会影响。一旦风机需要改进，成本将大幅提高。为降低由设计和制造缺陷引起的风险，采用全尺寸测试对叶片进行彻底的验证已不可或缺。

风能技术中心可以根据IEC61400-23标准，提供一套完整的叶片全尺寸测试服务，具备最先进的测试技术和手段，能够完成叶片的静态和疲劳试验，以满足不同目的的需要。

- 认证测试
- 叶片设计验证
- 生产质量检测
- 维修和设计变更的验证

### 主要参数

- 测试装置：3套
- 最大测试叶片长度：70m
- 最大安装直径：3.9m
- 安装倾斜角度：7°
- 叶片根部中心距地面：4.5m
- 叶片根部中心距：9m

### 静态测试

- 加载最大弯矩：45MNm
- 4台200KN液压卷扬机
- 2台100KN液压卷扬机
- 最大叶尖垂直位移：18m

### 疲劳测试

- 加载最大疲劳弯矩：30MNm
- 液压缸动态激振
- 最大可调加载质量：1200Kg
- 疲劳测试叶片最大振幅：9.5m

### FULL-SCALE TESTING OF ROTOR BLADE

It is essential to prove reliability of even longer rotor blades. Not only are blades delicate structures, but also subcomponents consist of combined materials with critical connections. During operational life blades, blades are subjected to highly demanding loads in both extreme and cyclic in nature.

Blades failures can cause severe impact on safety, turbine downtime and public exposure. In case a retrofit is needed to a turbine fleet, significant costs arise. To minimize the risk from design flaws and manufacturing defects, a thorough validation of the blade through full-scale testing is indispensable.

The Wind Energy Technology Centre (WETC), according to standard IEC 61400-23, provides a complete set of full-scale testing capabilities. Equipped with state-of-the-art technology the test centre can perform static and fatigue tests for various purposes.

### ■ CERTIFICATION TESTING

### ■ BLADE DESIGN VALIDATION

### ■ MANUFACTURING QUALITY TESTING

### ■ VALIDATION OF REPAIRS AND DESIGN CHANGES

### MAIN DATA

- Number of testing rigs: 3 sets
- Max. Blade length: 70m
- Max. Bolt circle diameter of blade root fixture: 3.9m
- Default tilt angle of blade root fixture: 7°
- Distance from root centre to floor: 4.5m
- Distance between root centers: 9m

### STATIC TESTING

- Max. Bending moment of loading: 45MKN
- 4 hydraulic winches of 200KN
- 2 hydraulic winches of 100KN
- Max. Blade tip displacement: 18m vertical

### FATIGUE TESTING

- Max. Fatigue bending moment of loading: 30MKN
- Dynamic excitation with hydraulic cylinders
- Max. Adjustable moving masses with 1200Kg
- Max. Blade tip displacement: 19m tip-to-tip



## 材料测试及计量校准 MATERIALS TESTING AND CALIBRATION

### 高分子材料及可靠性测试

#### 高分子主要测试项目

- 力学性能
- 热学性能
- 电学性能
- 燃烧性能
- 光学性能
- 成分分析
- 耐候老化性能
- 环境模拟

#### 可靠性主要测试项目

- 电学可靠性
- 机械可靠性
- 环境可靠性

### 金属材料测试

#### 主要测试项目

- 机械性能
- 金相分析
- 成分分析
- 镀层分析
- 无损探伤
- 尺寸测试
- 腐蚀测试
- 失效分析
- 管件压力爆破
- 环境模拟测试

### 建筑材料测试

#### 主要测试产品

- 天然石材
- 天然石材复合板
- 人造石材
- 门窗玻璃
- 木制品
- 木塑材料

- 铝塑复合板/铝型材/铝蜂窝板
- 水泥及水泥基胶凝材料
- 陶瓷砖
- 防水材料
- 涂料和胶黏剂
- 节能材料
- 脚手架

### 计量校准

#### 主要服务项目

- 电磁学计量器具
- 热学计量器具
- 力学计量器具
- 长度计量器具
- 化学计量器具

### POLYMER MATERIALS AND TESTING

#### POLYMER TESTING CAPABILITIES

- Mechanical Properties
- Thermal Properties
- Electrical Properties
- Flammability
- Optical Properties
- Components Analysis
- Weathering Resistance
- Environmental Reliability

#### RELIABILITY TESTING CAPABILITIES

- Electrical testing
- Mechanics Testing
- Environment testing

### METAL MATERIALS TESTING

#### TESTING CAPABILITIES

- Mechanical property testing
- Metallography testing

- Chemical composition analysis
- Plating analysis
- Nondestructive testing
- Dimension measurement
- Corrosion testing
- Failure analysis
- Pipe pressure blasting
- Environmental reliably test

### CONSTRUCTION PRODUCTS TESTING

#### MOSTLY TESTING PRODUCTS

- Natural Stone
- Natural Stone Complex Veneer
- Artificial Stone
- Door, Window & Glass
- Woodwork
- Wood & Plastic Composite Panel
- Aluminum-plastic Composite Panel/Aluminum Profile/Aluminum Honeycomb Sandwich Panel
- Cement & Cement Binder
- Ceramic Tile
- Waterproof Material
- Coating & Adhesive
- Energy Saving Material
- Scaffold

### CALIBRATION

#### MAJOR CAPABILITIES

- Electromagnetic instruments
- Temperature instruments
- Mechanical instruments
- Length instruments
- Chemical instruments



## 产品认证 PRODUCT CERTIFICATION

### 认证产品的分类

#### 锅炉及压力容器

- ASME认证检验
- PED (97/23/EC) 认证检验 (CE-marking)
- IBR (印度) 认证
- MOM新加坡
- DOSH马来西亚
- 日本PV1\PV2一压二压
- 澳大利亚及新西兰
- 其他国家检验及认证

#### 机械产品

- 欧盟机械指令MD( 2006/42/EC) [CE-marking]
- 欧盟低电压指令LVD (2006/95/EC) [CE-marking]
- 欧盟电磁兼容指令EMC(2004/108/EC) [CE-marking]

#### 爆炸性环境的设备

- 欧洲ATEX指令 [CE-marking]

#### 建筑产品

- 建筑产品指令 (89/106/EEC) ) [CE-marking]

我们在全球拥有多个建筑产品公告机构，能力几乎覆盖全部的建筑产品。

- SGS UK 公告号0120
- SGS INTRON 公告号0958/1939
- SGS Portugal 公告号1029
- SGS Nederland 公告号0608/1122
- SGS Italia 公告号1381
- SGS Hungary 公告号1979

#### 服务范围

- 设计审核及评估
- 材料及焊接评估和认证
- 风险评估和分析
- 在施工阶段中的检查
- ASME取证辅导，评估及审核
- 焊接工艺评定和焊工资格审核
- 建筑产品ITT和FPC

#### CERTIFICATION OF PRODUCTS AGAINST STANDARDS AND REGULATIONS:

#### BOILER & PRESSURE EQUIPMENT

- ASME Authorized Inspection Agency Services
- European Pressure Equipment Directive (PED-97/23/EC) [CE-marking]
- IBR (India Boiler Regulation)
- Ministry of Manpower Singapore (MOM)
- DOSH Malaysia
- Japan First Class/Second Class
- OSH New Zealand, AS Australia
- Other National Statutory Requirements

#### MACHINERY

- European Machinery Directive ( 2006/42/EC) [CE-marking]
- European Low Voltage Directive (2006/95/EC) [CE-marking]
- European EMC-Directive (2004/108/EC) [CE-marking]

#### EQUIPMENT FOR EXPLISIVE ATMOSPHERES

- ATEX [CE-marking]

#### CONSTRUCTION PRODUCTS

- European Construction Products Directive (89/106/EEC) [CE-marking]

#### WE POSSESS MANY NOTIFIED BODIES IN WORLD WHICH COVER ALL CONSTRUCTION PRODUCTS.

- SGS UK No 0120
- SGS INTRON No 0958/1939
- SGS Portugal No 1029
- SGS Nederland No 0608/1122
- SGS Italia No 1381
- SGS Hungary No 1979

#### SERVICES SCOPE

- Verification of calculations/ drawings before construction
- Verification of welding files and material certificates
- Risk assessment & analysis (Hazop/Hazan, Fault Tree Analysis, FMEA)
- Interim inspections during the construction phase
- ASME Stamp accreditation training, verification and audit
- PQR and WPQ for all international standards
- Initial Type Test (ITT) and Factory Production Control (FPC) for construction products



## 检验 INSPECTION

中国是全球工业品市场的重要出口国，当国外的买家在中国采购的时候，会指定一个独立的、可信赖的第三方的机构对产品进行检验，例如SGS。

### 工业品检验服务包括

#### 供应链服务

- 工厂审核：根据客户委托对供应商资格、能力进行评估与审核
- 催交：根据客户委托对供应商产品制造进度进行控制，对产品交货进度进行监控，督促供应商按照合同及进度计划进行生产，从而保证和加快产品的交付
- 文件控制：技术文件的审核与控制
- 生产过程质量保证/质量控制检验
- 监装：对产品的装卸过程进行监控，按照SGS的监装程序记录并铅封
- 终检：根据客户及ITP要求，对产品进行最终检验
- 见证测试：根据客户及ITP要求，对产品相关的测试及实验进行见证
- 进度监控：对生产进度进行监控，给客户汇报生产进度的实际情况及存在的问题
- 咨询服务：依据SGS工业服务的经验对客户供应商选择提供咨询

China is increasingly becoming an import supplier of Industrial Products in the global marketplace. Overseas buyers need a trustworthy and independent partner to ensure that the industrial materials and equipments purchased in China are in compliance with their purchase order or project specifications, such as SGS.

### INDUSTRIAL PRODUCTS INSPECTION SERVICES INCLUDING

#### SUPPLY CHAIN SERVICES

- Factory Assessment Prequalification of vendors, based on buyer's requirements
- Expediting SGS offers expediting services to ensure compliance with the required delivery terms and to ensure that the material flow between parties happens on time and under the terms of the contract
- Documentation Review Review and control of technical doc
- Inspection during fabrication of equipment & material at manufacturers' facilities
- Loading supervision: Monitor loading process of product record and seal in accordance with SGS' process.

- Final Inspection Final Inspection of completed equipment & material according to buyer' and ITP requirements
- Witness Test Witness Inspection and testing of products according to buyer's and ITP requirements.
- Progress Monitoring Supervise production progress and report to client the progress and problems.
- Consultancy Services advisory services on vendor selection, by personnel experienced in equipment purchasing, and other consultancy services.



## 伊朗进口认证 IRAN CERTIFICATION

ISIRI (Institute of Standards and Industrial Research of Iran) 是伊朗进口检验的政府主管部门。由伊朗政府通过部长令授权，负责对进口至伊朗货物的品质进行管理。起草并执行伊朗进口货物的检验要求、检验规章、检验政策等。负责进口至伊朗法检货物的抽检，并出具伊朗海关凭之放行的清关证书。作为ISIRI认可的检验公司中最具影响力的一家第三方检验机构，SGS工业服务是协助您完成伊朗进口程序的理想合作伙伴。

### 伊朗进口检验的分类

#### 强制检验（法检）

- 确定法检的依据  
产品在产品清单（COI）上（需要伊朗进口商与ISIRI或者SGS伊朗确认）
- 法检的执行  
必须从供给伊朗进口商的这批货物中抽样，然后按照买卖双方选定的，并且为ISIRI所接受的标准，进行完整的逐项测试

#### 非强制检验（非法检，即一般商检）

- 确定非法检的依据  
产品不在产品清单（COI）上
- 非法检的执行  
从供给伊朗进口商的这批货物中以抽样的方式，按照买卖双方约定的技术参数和要求对产品进行检验和测试

The Institute of Standard and Industrial Research of Iran (ISIRI) is appointed by Ministerial Decree to control the quality of imported goods to protect the safety, health and environment of the public and internal producers against low quality importations. The institute functions to draft & implement the inspection procedures, regulations and policies, etc. together with governmental ministries to draft & implement the list of products subject to compulsory standards, to re-sample & re-test cargo after arrival, and to issue the certificate for customs clearance. Being one of the most significant ISIRI accredited Inspection Companies, SGS Industrial Services is your ideal partner to assist in complying with the Iranian import regulations.

### TYPES OF INSPECTION ON IRAN IMPORT

#### MANDATORY INSPECTION – COI (CERTIFICATION OF INSPECTION)

- Criterion of Mandatory Inspection  
Tariff number of the product is Found on the list of products subject to compulsory standards

#### ■ Implementation of Mandatory Inspection

Samples, drawn from the specific shipments supplied to Iran buyers, shall be tested fully as per product standards selected by buyer & seller within the ranges designated by ISIRI

#### NON-MANDATORY INSPECTION – OIC (ORIGINAL INSPECTION CERTIFICATE)

- Criterion of Non-mandatory Inspection  
Tariff number of the product is Not Found on the list of products subject to compulsory standards
- Implementation of Non-mandatory Inspection  
Samples, which are taken from the specific shipments supplied to Iran buyers, shall be verified for compliance with the technical parameters and requirements agreed by both buyers and sellers.



## 无损检测 NON-DESTRUCTIVE TESTING

NDT 无损检测是指在破坏前提下，检查工作宏观缺陷或测量工件特征的各种技术方法的统称。为客户提供在可控成本条件下达到高效率 and 既定质量目标。常用检测方法：目视检测，超声检测，射线检测，磁粉检测，渗透检验，涡流检测。

NDT检测技术广泛应用于以下领域：产品开发，筛选或引入新材料，监督，改善或是控制生产过程，验证工艺，检验固有的设备（在役检查）。

### 服务优势

- NDT专业人员分布10个城市：在上海，大连，青岛，广州，宁波，武汉，北京，深圳，重庆，成都，能更方便为您提供 NDT检测服务
- 所有人员都经过专业的培训并具有相关的资格。例如：ASNT, EN473, CHSNDT, CCS, CASEI, PCN等。
- 专业的服务：实验室具有CNAS(ISO 17025/ISO 17020)和CMA认证。

### 服务领域

- 初级产品：锻件，铸件，型材，板材，管件，罐体，钢构等；
- 再处理过程：焊缝，机加工，热处理等
- 在役服务：裂纹，腐蚀等；
- 工程：电力，航空，压力容器，建筑，铁路等；
- 执行检测标准涵盖ASME, ASTM, EN, ISO, AS, GB, API等。

### 烟台华健检测工程有限公司

SGS集团下属的子公司烟台华健检测工程有限公司，其核心业务是无损检测、理化试验、热处理等业务。拥有特种设备无损检测机构A级、建设部无损检测总承包三级、中国石化工程建设市场资源库成员、中海油B级承包商、中石油工程建设二类承包商等资质。

Non-destructive testing is use of noninvasive techniques to determine the integrity of a material, component or structure or quantitatively measure some characteristic of an object. NDT can inspect vital functions in achieving the goals of high efficiency and quality at an acceptable cost for client. Testing Method: Visual Testing (VT), Ultrasonic Testing (UT), Radiographic Testing (RT), Magnetic particle Testing (MT), Penetrant Testing (PT), Eddy Current Testing (ET).

Application: Product development, To screen or sort incoming new materials, To monitor, improve or control manufacturing processes, To verify proper processing, To inspect for in-service damage.

### NDT SERVICE ADVANTAGE

- Inspector can be available 10 cities Shanghai, Dalian, Qingdao, Guangzhou, Ningbo, Wuhan, Beijing,

- All Inspectors had been trained and have professional qualification. For instance ASNT, EN473, CHSNDT, CCS, CASEI, etc.
- Professional service we have CNAS (ISO 17025/ISO 17020) and CMA qualification;

### APPLICATION FIELD OF NDT

- Raw Product: Forging, Casting, Extrusion, Plate;
- Second Processing: Welding, Machining, Heat treating;
- In-service: Cracking, Corrosion;
- Project: Power Plant, Aircraft, Pressure Vessel, Construction, Railway, etc;
- Testing Standard: ASME, ASTM, EN, ISO, AS, GB, API, etc;

### YANTAI HUAJIAN INSPECTION ENGINEERING CO., LTD.

Yantai Huajian Inspection Engineering Co., Ltd. is a subsidiary company of SGS Group, with its core business on various non-destructive testing (NDT), chemical analysis and physical testing and heat treatment. It has also obtained Level A NDT Institution Approval Certificate of China Special Equipment Institute, Resource Library Member of Sinopec, B-Level Contractor Qualifications from CNOOC, Construction of Two Types of Contractors from CNPC, etc.



## 无损检测培训及考试 SGS NDT TRAINING & EXAMINATION

“中国制造”在全球世界的地位越来越稳固，无损检测技术作为制造业质量控制和保障的手段之一，也越来越被广泛关注。SGS 无损检测培训课程，致力于帮助您提高产品质量、减少贸易风险，进而扫除贸易障碍。

SGS 目前在中国提供无损检测培训和考试服务，我们致力于培养国际公认的无损检测专家，以便提高检验的质量并且降低产品的风险。我们的培训和考试是基于最高标准的欧标(EN473)，国际标准(ISO 9712)以及美标(ASNT)施行，特别注重培训各种无损检测方法的实际操作。

学员通过考试后将被授予由英国无损检测协会(BINDT)颁发的个人无损检测资质证书(PCN)。

中国对高品质无损检测服务的需求正在快速上升，相信这项新服务对于中国境内的所有企业及组织都具有很强的吸引力。

培训课程将在上海SGS开办，若有特殊需求，也可提供到场培训。

### 我们提供的服务包括

- 工程师及管理人员无损检测基础知识
- RT(射线检测), UT(超声检测), MT(磁粉检测), PT(渗透检测)及VT(目视检测)的1, 2, 3级培训和考试
- TOFD(超声衍射时差法检测)的2级培训和考试
- 无损检测3级专家咨询服务
- PED NDT的审核

### 培训服务及技术测试研讨会

SGS可以针对不同客户对测试、检验及认证的不同需求，定制不同主题的培训课程

及研讨会课程。我们定期进行各种检验、检测和认证方面的专题研讨会。将SGS在这方面的经验和客户分析。而且大部分的研讨会是免费举行的，如需知悉具体课程安排，请与我们联系。

China represents huge business opportunities for every ambitious company in the Industrial markets. The market of China is ever increasing at an incredible pace, however, one area of concern that international clients have is the quality of the products produced in China. Often after delivery from the manufacturer in China it is found that the quality of the materials and products are not meeting the clients' requirements and expectation.

To manage this risk, NDT inspections are performed during and after manufacturing of the products, however, these tests and inspections are carried out by inspectors who have usually received little or inadequate training and examinations. SGS now offers internationally recognized training and certification services in Non Destructive Testing in China. The aim is to create a wider availability of inspectors and technicians who are trained and certified in accordance with the European and American standards for the qualification and certification of NDT personnel, EN473. This will ensure an increased quality of the inspection and therefore provide a lower risk of products being out of specification on arrival at their destination.

The training and examinations that SGS offer are in accordance with the highest European and American standards (EN473 / ISO 9712 / ASNT), with a particular focus on the extensive training syllabus for all NDT methods and will offer Personal Certification of NDT (PCN) which are issued by the British Institute of NDT (BINDT).

The need for high quality NDT service in China is growing at a rapid pace and this new service is attractive for all companies and institutions that are doing business with international customers.

The courses will be held in Shanghai and at company premises should it be specifically requested. Examples of these services are:

- Basic NDT awareness for engineers and managers
- Level 1, 2 and 3 PCN courses in RT, UT, MT, PT, VT
- Level 2 TOFD
- Level 3 consultancy services
- PED NDT Assessment

### TRAINING AND SEMINAR

SGS focuses on affording a wide variety of trainings and seminars to meet different requirements from different clients. We will hold seminars termly for inspection, testing and certification. SGS will share our experience with you. Most of our seminars are free; if you are interested in it, please contact us freely for further information.



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