

# SGS IN POLAND: OWNER'S ENGINEER SERVICES FOR POLISH ENERGY PARTNERS

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SGS provides comprehensive owner's engineer and supervision services for three wind farms with a total capacity of 106 MW for Polish Energy Partners (PEP).

On 4 April 2013, Polish Energy Partners (PEP) presented SGS a Letter of Intent for owner's engineer and supervision services for three wind farms with a total capacity of 106 MW. SGS won the bidding based on its expertise in renewable energy projects and experience delivering owner's engineer services. A contract was signed scheduling project completion for May 2015. Having previously served PEP at two other wind farm locations with a total capacity of 58 MW, this agreement is testament to the quality and reliability of SGS services.

### POLISH ENERGY PARTNERS (PEP)

PEP is a leader in renewable energy sources projects and an expert in the development, implementation and operation of facilities related to electricity, heat and fuel production. PEP-operated plants produce more than 8 per cent of Poland's renewable energy obtained from wind and biomass.

### PEP WIND FARM PROJECTS STATUS

#### Gawlowice/Rajgród Wind Farm

- construction works underway
- on-site team of 6 and 8 SGS experts respectively

#### Skurpie Wind Farm

- construction works due to start in May 2014

### SGS PRE-CONSTRUCTION SERVICES

During the pre-construction phase of the wind farms development, SGS assisted PEP project leaders in all processes, properly controlling quality and following timetables. As technical advisor, SGS provided technical due diligence of project documentation including risk specification. SGS specialists prepared initial environmental reports, assessments and impact studies. Pre-construction road surveys and reports were also drawn up to determine project impact on infrastructures.

SGS experts coordinated the design of the wind farms by:

- determining site suitability
- assessing wind energy yields
- measuring wind by collecting and monitoring data
- confirming measure masts with outsourced provider
- modelling wind farm designs
- verifying data
- reporting outcomes
- optimising solutions to reduce costs and ensure high quality

SGS professionals issued tendering documentation for TSA, BoP and electrical contractors, prepared quotations and evaluations of project costs and led negotiations during contractor selection.





According to the agreement, SGS provided technical assistance, wrote specifications, SIWZ (major technical specification conditions), PFU (functional programme) and appendices to project contracts and verified turbine manufacturers, site suitability and grid code requirements.

#### **SGS SERVICES DURING CONSTRUCTION**

SGS duties substantially increased during the construction phase. Skilled SGS professionals were responsible for the coordination and organisation of work including thorough reporting and site supervision according to construction laws. SGS expert technicians verified design, assessed risk, conducted site works supervision, FAT tests and mechanical completion inspections and provided technical assistance throughout the construction of each project.

SGS supervisors strove to meet scheduled PEP deadlines and stay on project budget while guaranteeing compliance and coordinating measures to obtain permits. SGS delivered compulsory documentation to banks, authorities and institutions, recorded construction supervision and maintained log books.

SGS supplied personnel mandated by construction laws including a legal site manager, inspectors and owner's engineer expert acting on behalf of the employer. Equally important, SGS provided PEP with machine and turbine specialists and optional scientific staff.

Throughout construction, SGS experts supervised the creation and

implementation of site-specific health and safety plans. SGS oversaw quality assurance and liaisons, coordinated commissioning and supervised partners.

At PEP request, SGS prepared technical documentation to obtain concessions necessary to produce electricity including diagrams and descriptions of the measuring systems.

SGS officials were authorised to act on behalf of PEP in certain administrative situations. In order to successfully carry out the enormous task of owner's engineer, SGS was obligated by Polish law to provide the required and skilled personnel licensed for the scope of activities.

#### **SGS WIND SECTOR OWNER'S ENGINEER**

SGS owner's engineer services for the wind sector ensure contractors meet required conditions in terms of technical parameters, quality of equipment and works, scheduled time and contract price. SGS provides wind farm owners with solutions for efficient and complete monitoring of project progress. The SGS portfolio of owner's engineer services includes materials inspection, quality control and quality assurance during civil foundation and electrical installations, construction supervision, expediting, witness testing at manufacturer premises and on site as well as commissioning supervision.

SGS was proud to take part in this important project and looks forward to assisting PEP in successfully completing works next year.

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