



WINDPLAN Bosse GmbH

Experience since the First Hour of Wind Energy



source: WINDPLAN Bosse

Company Profile (short version)

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Short History

Since the early beginnings in 1985 developments in WindPower in Germany are connected with the name of the founder of WINDPLAN Bosse, Dipl. Ing. Peter Bosse, who then planned and erected one of the first wind power plants in Germany.

After establishing the German WindPower company SUEDWIND the name Bosse remained a well known trade mark in mechanical engineering and technical expertise in the wind power technology and in the planning of numerous windparks on behalf of various clients.

At the time SUEDWIND went to NORDEX the decision was made to concentrate the collected knowledge in the field of services for WindPower developers and investors. Together with the experienced planner and civil engineer, Dipl. Ing. Harald Bosse, WINDPLAN Bosse started its successful path as Consultant in WindPower Planning and Engineering in 1999.

The combination of technical expertise in WindPower mechanical and civil engineering with the knowledge of in national and international project development proved to be the right concept. Well known windturbine producers like NORDEX, GE WindEnergy and REpower were among the clients of WINDPLAN Bosse. A great number of project developments and realizations ranging from single wind power plants to medium sized windparks could be realized.

WINDPLAN Bosse is proud to be one of the first consultants to the still young sector of offshore wind energy. Integrated into the expert monitoring team for the offshore-wind consortium RENNERT-E.ON the construction license for the 400MW Amrumbank West Scheme could be effected in 2004. The offshore planning process was presented by WINDPLAN Bosse to the international windpower society on the 2003 venue in Cape Town.

Having been a succesful consultant to German developers, investors and power utilities like WindStrom, enersys, WKN and VATTENFALL it is the aim of WINDPLAN Bosse to extend its story to the international arena, Bulgaria and Poland are present planning grounds.

Due to former experiences in the field of international development cooperation in East Africa the African continent is in the center of WINDPLAN Bosse's attention. WINDPLAN Bosse was able to offer practical training to Namibian participants of German NGO INVENT's course on "Windpower in Africa", one step of many to follow.

Scope of Works

Planning + project development

- Suitability assessment of potential areas, positioning and optimization of windpark design
Analysis of wind data and potential energy yield project
evaluation of e-grid environment
- Land contracting and land ownership relations
- Complete licensing procedures at public agencies and administration
representation and consulting of principal builder

implementation of legal framework and technical standards
immission control mechanisms

- Overall and detailed planning of windpark outline and infrastructure preparation of technical documents

Technical expertise + consulting

- Pre- and feasibility studies, environmental impact studies
specialist on sound immission and shadow impact
visualization and zones of visual influence
- Structural analysis of foundations and bearing elements
experts on deep foundations
- Mechanical services expertise,
development and monitoring of service and maintenance schemes
failure and damage assessment expertises

Project implementation + construction works

- Tendering and commissioning procedures of works
supervision and monitoring of construction works
general contracting and turnkey completion
- Supervision of start up procedures,
handover documentation check on behalf of investor,
controlling and monitoring of initial breaking-in phase
damage and failure reports and expertises

Financial management

- Specialist in contracting procedures for investor and wind turbine
producer relations (modes of delivery)
accompanying investors in the financing procedures
loan acquisition procedures of public ecological funds
- Cash-flow-analysis, return on investment - studies,
submission document for due diligence,
financial margin scenarios on energy yield fluctuations
- Assistance and consulting the investor in the JI/CDM application,
preparation of project ides note, baseline report, project design
document

Company Organisation

WINDPLAN Bosse is a planning and consulting office.

Company representation and headquarters are situated in Berlin, the Meinersen branch is mainly responsible for planning and licensing tasks

Personnel:

BERLIN headquarters – 5 pers. Staff

MEINERSEN branch – 2 pers. Staff

Additional staff on free-lanced cooperation basis as per project requirement
in present cooperation:

2 civil engineers, 2 electrical engineers, 1 economist, 1 legal advisor

Projects (excerpt)

- WP Schoenerlinde – 3 MW –
after realization: e.disnatur (power supplier)
District Oberhavel (Region Berlin-Brandenburg)
2000/2001
3.2 Mio EUR - 2x1500 kW
NORDEX-Südwind S77
- WP Arensberg-Bueste – 10,5 MW –
after licensing: enersys
District Stendal (Saxony-Anhalt)
1999-2004
9.6 Mio. EUR – 6x1500 kW
NORDEX-Südwind S77
- offshoreWP Amrumbank-West – 400 MW –
planning and consulting for project developer:
RENNERT offshore GmbH, Mueden, Germany/
e.on energy projects GmbH, Munich, Germany (power supplier)
North Sea (25m water depth)
2000-2003
800 Mio. EUR – 80x5000 kW
REpower 5M / multibrid 5000
- WP Halenbeck – 18 MW (phase I & II)
planning and consulting for investor:
WindStrom Innovative Energy
Region Berlin-Brandenburg
2006/2007 (partly ongoing)
17.55 Mio. EUR – 9x2000 kW
ENERCON E70-E4
- Additionally
Special expertise in offshore-windenergy utilization
client: VATTENFALL renewable energies, Cottbus, Germany
Special expertise in structural design analysis
clients: GE Wind energy, REpower, NORDEX
Ongoing projects: in Germany, Poland and Bulgaria

Contact

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