WEC TECHNICAL DUE DILIGENCE INSPECTION

When wind farm projects are sold, the contractual object is inspected in detail in the course of the acquisition in order to carry out a thorough assessment of the investment risks ("due diligence inspection"). This is standard practice in international business.
Subject of the due diligence inspection by the service providers is:
- the legal situation (legal due diligence),
- the fiscal situation (tax due diligence),
- the financial situation (financial due diligence),
- the situation of the market of the branch and the strategy (market/commercial due diligence) ,
- the environmental compatibility (environmental due diligence),
- the insurance cover (insurance due diligence),
- the personnel situation (human resources due diligence),
- and the technology (technical due diligence).

The due diligence inspection is carried out by specialized service providers who are in contact with the Veltrup Technical Inspection Bureau as technical consultants The Veltrup Technical Inspection Bureau carries out the inspection of the WEC technology on behalf of the service providers or investors as an expert body and draws up the "Technical Due Diligence Report".

Inspection

In contrast with the writing up of a detailed list of defects for the commencement-of-operations inspection of a WEC, the focus of In contrast to the commissioning inspection, the focus of this inspection is not on the compilation of a comprehensive WEC-specific list of deficiencies but the identification and assessment of the technical strengths and weaknesses of the wind farm project and the resultant opportunities and risks.
The objective is to make a statement as to whether:
- there are fundamental deficiencies that would justify refusal of acceptance by the customer/operating company.
- the plants constructed conform with the documents and contracts submitted (conformity assessment),
- there are any safety issues that would preclude operation,
- There are weaknesses in the plant technology which, against the background of the experience of the TI bureau, can lead to technical problems or damage over the course of the service life and thus negatively affect the profitability of the project.

Scope of inspection

An experienced technical expert carries out the technical inspection of the WECs at the respective locations or if necessary, a selection thereof. The number of technical experts depends upon the scope of the project and the depth of the inspections required. The participation of the service provider or investor is possible. Extensive tests are carried out on the plant during the inspection. Participation of a service team is therefore advisable. In preparation, a detailed review of the documentation is carried out in advance by a leading technical expert ("Leading Expert"). After consultation with the client, the scope of the inspection and key issues will be decided upon.
Standard for the on-site inspection is/are:
- conformance of the plant with the documents submitted (type testing, individual inspection, building permit, grid connection) as well as the plant documentation (e.g. maintenance records, expert opinion)
- foundations and the towers,
- mechanical and electrical components,
- gearbox,
- safety-relevant components and functions,
- Rotor blades.

Inspection Result

The inspection report serves for submission to the service provider and, if necessary, the investor, to identify the strengths and weaknesses of the plant technology used and to evaluate the resultant risks. The client/operating company/investor will receive a detailed digital condition report of every plant in the shape of a Word or PDF file in which all deficiencies identified are named, described and documented to a large extent by photos. This “Technical Due Diligence Report” is provided in the English or German language. Reports in other languages are optionally provided through technical translation agencies. On request, the results can be explained verbally, e.g. immediately after the on-site inspection.

Von der Oldenburgischen Industrie- und Handelskammer
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