

List of requirements for wind energy projects

1 GENERAL PROJECT INFORMATION

- 1.1 Detailed description of the project including all important parameters
- 1.2 Exact position on site on a topographic map on a scale of 1:25 000 in digital form
- 1.3 Precise coordinates of the Wind Turbine Generator positions
- 1.4 Zoning map (development plan)
- 1.5 List composed of all land owners which are affected by the building sites, transformer stations, airspace, foundations and access roads
- 1.6 List of all land owners affected by cable lines for wind farm cabling, delivery lines to transformation stations, transmission station and telephone connection
- 1.7 Contracts with the land owners of all affected properties as listed above
- 1.8 Detailed construction schedule

2 DOCUMENTATION RELATED TO THE WIND TURBINE GENERATOR MANUFACTURER

- 2.1 Purchase contract for the Wind Turbine Generators
- 2.2 Maintenance contract for the Wind Turbine Generators
- 2.3 Site suitability assessment for turbine type – drawn up by a wind turbine manufacturer
- 2.4 Letter from the Wind Turbine Generator manufacturer, confirming the possibility of the delivery of all Wind Turbine Generator components to the exact Wind Turbine Generator construction site
- 2.5 Draft purchase agreement for wind turbines – O&M contract (for min. 5 years) with reputable counterparties
- 2.6 Basic conditions of the contract (unit price, payment schedule, warranty period, scope of warranty) anticipated by the Contractor and the Supplier

3 BUDGETARY ISSUES

- 3.1 Total budget or a complete financial model of the project
- 3.2 Detailed budget for the construction and a detailed construction program

4 ELECTRICAL CONNECTION

- 4.1 Draft of a Power Purchase Agreement (PPA)
- 4.2 Pre-transmission grid connection approval issued by relevant counterparty
- 4.3 Technical description of the grid line and the electrical connection incl. feed-in points
- 4.4 Grid dimensions and calculation of grid losses
- 4.5 Single line diagram – wind farm internal cabling and grid connection
- 4.6 Grid connection contract and grid connection terms and conditions
- 4.7 Telephone system and software to monitor WTG
- 4.8 Earthing / Grounding

5 DIVERSE PLANS AND CONCEPTS

- 5.1 Site and Implementation plan for road construction
- 5.2 Site and Implementation plan for construction sites
- 5.3 Implementation plan for foundations
- 5.4 Site and Implementation plan for the wind farm internal cabling
- 5.5 Site and Implementation plan for the grid connection

6 SOIL AND ACOUSTIC STUDIES

- 6.1 Soil study
- 6.2 Experts reports for foundations and Wind Turbine Generators about static, iron (nat.I standard)
- 6.3 Acoustic and noise study
- 6.4 Shadow throw study
- 6.5 Nature conservation study (concerning sanctuaries, avifauna, bat survey, etc)

7 EVALUATION OF THE WIND AND ENERGY PRODUCTION

- 7.1 Energy audit and Feasibility Study prepared and approved by an independent engineer to assess wind conditions and energy produced at the specific site by a selected type of wind turbine
- 7.2 Raw data of all wind measurements at the location and long term data of wind measurements
- 7.3 Calibration protocols of the anemometer
- 7.4 Energy yield study
- 7.5 Wind zone and turbulence study
- 7.6 Measurement of wind speed and mathematical model (VAS, WAsP, PIAP)

8 APPROVALS AND PERMITS

- 8.1 Overview of national and local regulations applicable to the construction and operation of the wind park.
- 8.2 Approvals from the regulators, public or local authorities to be granted (from whom and at which stage) and of those which are already obtained and timeline for the completion of the complete approval process. (building permit etc.)
- 8.3 Environmental Impact Assessment (EIA), zoning plan approval and construction permit
- 8.4 Servitudes
- 8.5 Relevant land register excerpts for the site

9 APPROVAL PROCESS OF NOTIFICATIONS AND OBLIGATIONS

- 9.1 List of all legal notifications with corresponding validity periods
- 9.2 Objections and statements in the approval process
- 9.3 List of all obligations and requirements and compensation measures contained in the permissions and notifications
- 9.4 List of voluntary und obligatory (cost incurring) compensation measures being part of the project

10 BUILDING CONSTRUCTION CONTRACTS

- 10.1 List of all existing building construction contracts with the date of awarding of the contract
- 10.2 All building construction contracts including complete scope of services of the contracts

11 OTHER

- 11.1 Insurance policy documents