

<b>A) planning</b>			
<b>1. Determination of wind potential</b>		A = Available   NA = Not Available	
	<b>A</b>	<b>NA</b>	<b>Date</b>
planning			
Site visit			
Collection raw data			
Implementation of wind measurements over several months			
Calculations based on WAsP and WindPRO software			
Taking account of complex terrain			
Complete description of site with interpretation of photos			
Results: digitized contour map with description of obstacles and roughness; Weibull parameters; mean annual speed; annual energy yields; isolines of wind speed, energy density or energy yield			
Assessment of results: reliability, deviations			
Output of more detailed results			
Wind farm analyses			
Optimization strategies for micro-sites according to criteria of maximization of earnings, minimization of costs or maximum park effectiveness			
<b>2. Real estate</b>			
	<b>A</b>	<b>NA</b>	<b>Date</b>
Excerpts from cadastral maps			
Generation of list of owners			
Preparation of site plans			
Excerpts from cadastral district maps			
Clarification of rights of way			
Conclusion of all permission to use contracts with real-estate owners			
Registration of servitudes			
<b>3. Planning of approvals</b>			
	<b>A</b>	<b>NA</b>	<b>Date</b>
Discussions with local authorities			
Discussions with organizations responsible for matters of public concern			
Application for outline planning permission, incl. All documents required			
Obtaining necessary expert reports and inspection documents for building permit, acoustics report, soil report, machinery report, static calculation of foundation, visibility analysis			
Land use plan			
Development plan			
V+E plan			
Landscape conservation plan			
Open space plan			
Water legislation			
Preliminary ecological examination			
Roads and lanes report			
Application procedure for building permit			
Building permit			
Planning of compensatory measures			
Implementation of compensatory measures			

<b>5. Planning for mains and grid connection</b>		A = Available   NA = Not Available	
	<b>A</b>	<b>NA</b>	<b>Date</b>
Internal cabling in the wind farm			
Internal and external transformer station			
Negotiations with the utility company responsible			
Clarification of grid connection			
Obtaining the necessary technical documents			
Establishing technical grid connection plan			
Grid connection contract			
Conclusion of PPA			
Invitation to tender for trades			
Price comparison			
Awarding of all contracts for services			
Building supervision			
Construction management			
Property management and documentation			
Commissioning			
<b>6. Implementation planning</b>			
	<b>A</b>	<b>NA</b>	<b>Date</b>
Work flow and organizational planning for project development			
Work flow and organizational planning for construction			
Zoning			
Property and work specifications			
Examination of execution plans			
Determination of quantities and volumes			
Performance specifications			
Technical optimization			
Access routes			
Craneway areas			
Transport routes			
Wind turbine generator purchasing contract with manufacturer			
Maintenance contract with manufacturer or maintenance company			
Invitation to tender for the trades			
Price comparison			
Preparation of contract documents			
Awarding of contracts for services			
Building supervision			
Construction management			
Guarantees			
Time schedule with obligations under warranties			
Measurements of work done on the site			
Final inspection			
Declaration of default			
Auditing of accounts			
Cost control			
Identification of defects and monitoring of correction of defects			
Insurance			
Property management and documentation			
Commissioning of the project			
Data connection and remote monitoring			
Continuous collection of operating data with operational management			

7. Operational aspects		A = Available   NA = Not Available		
	A	NA	Date	
Determination of planning costs				
Determination of capital expenditure				
Generation of project budget				
Time scheduling				
Submitting applications for operating resources and loans				
Determination of operating costs				
Profitability calculation				
Cash flow analyses				
Establishment of the company				
Preparation of financing models				
Providing guarantees				
Turn-key contracting				
<b>B) Wind report</b>				
	A	NA	Date	
Drawing up/obtaining two independent wind reports recognized by the financing bank(s).				
	A	NA	Date	
<b>C) Acoustics report</b>				
	A	NA	Date	
Site visit				
Description of wind turbine generator				
Assessment of raw data				
Complete description of the site with interpretation of photos				
Results: sound immission values at relevant immission points; limit value lines; colour print-out over topographical map				
More detailed output of results				
Optimization strategies				
<b>D) Shadow analyses</b>				
	A	NA	Date	
Site visit				
Description of wind turbine generator(s)				
Assessment of input parameters				
Complete description of the site with interpretation of photos				
Results: description of the reference points on the site, description of the wind turbine generator or wind farm from the immission points				
<b>E) Visualisation studies</b>				
	A	NA	Date	
Site visit				
Description of wind turbine generator				
Assessment of input parameters				
Complete description of the site with interpretation of photos				
Results: description of the reference points on the site, description of the wind turbine generator or wind farm from the immission points				

<b>F) Project report</b>		A = Available   NA = Not Available		
	<b>A</b>	<b>NA</b>	<b>Date</b>	
General project status				
Wind potential, wind report				
Soil report				
Status of approvals, approvability				
Provision of security for real estate				
Grid connection, grid access authorizations				
Access route				
Capital expenditure required				
Suitability for grants-in-aid				
Operating costs				
Purchase contracts				
Maintenance agreements				
Guarantee agreements				
Due Diligence				
<b>G) Environmental Impact Assessment – EIA and Accompanying Landscape Conservation Plan</b>				
	<b>A</b>	<b>NA</b>	<b>Date</b>	
Site visit				
Description of relevant legal provisions				
Description of the project				
Description of the region analysed				
Description of the situation at the site prior to the intervention				
Assessment of the situation at the site prior to the intervention compared with regions close to the site				
Definition of the intervention and assessment of the interaction between intervention and environment				
Analysis of the intervention				
Study of avifauna based on aerial photos, long-term observations and mapped avifauna habitats				
<b>H) Wind measurement stations</b>				
	<b>A</b>	<b>NA</b>	<b>Date</b>	
Construction, commissioning, operation and dismantling of entire wind measurement stations				
Tubular steel poles, braced poles				
With detailed static calculation upon request				
Minimum period: 12 months				
Sensory analysis of: wind speed, wind direction, temperature, air pressure, solar radiation				
Calibration prior to and after the measurement campaign				
Inclusion of lightning protection systems				
Inclusion of insurance				
Final expert opinion				

<b>Annex 3 Project budget</b>		A = Available   NA = Not Available		
	<b>A</b>	<b>NA</b>	<b>Date</b>	
Seller submits to Umweltkontor® a project budget, a profitability calculation and a project liquidity plan.				
<b>Annex 4 Documentation</b>				
The following documents/data must be submitted to the plant management:				
1. Layout plans				
Project manual (submitted by )				
List of generator components indicating the manufacturer/serial number				
2. Site plans				
Site plan, access route, description of access roads, map of surroundings				
Cadastral district map and relevant land register excerpts for the site				
Evidence of registered construction and maintenance obligation				
3. Cable positioning plans				
(for all cables, specifying the cables used)				
4. Building permit				
(building permit documents with relevant expert opinions)				
5. Expert reports (unless included in building permit)				
Wind report				
Acoustic report				
Shadow report				
Soil report				
Environmental Impact Assessment				
Other reports				
6. Purchase contracts				
between project company and manufacturer				
between corporation (managing company) and project company				
7. Permission to use contracts				
Permission to use contracts, lease contracts				
Servitudes				
Contracts relating to construction and maintenance obligation				

A = Available | NA = Not Available

	A	NA	Date
Contracts relating to crossing / use of country roads and lanes; railway lines, etc.			
List of real estate / owners of construction and maintenance obligations			
Other contracts			
8. Utility companies			
Grid feed-in contract (plus telephone number, emergency service and place of power input, transformer station)			
Grid input commitment / PPA			
9. Inspections			
Commissioning protocol between project company and manufacturer			
Final inspection protocol for excavation			
Final inspection protocol for reinforcement			
Final inspection of construction work by the authority granting the building permit			
10. Technology: wind turbine generator manufacturers			
Circuit diagrams			
Plant control documents			
Hydraulic plans			
Lists of components			
Servicing instructions			
Servicing specifications			
Homologation documents (cf. building permit)			
Conformity certificates			
Operating manual			
Evidence of corrosion protection			
11. Others			
Transformer station and corresponding complete circuit diagrams			
Telephone system (e.g. phone number)			
Software to monitor WTG			
Climber protection features / safety features (documentation, serial numbers / inspection date: belts, carriages, fall absorbers, fire extinguishers, first-aid box)			
Earthing measurement protocol			
In addition, the following documents shall be delivered, if available:			
Expert report on the final inspection of WTG			
Insurance policy documents			
Servicing agreement			