

Control of the WEC structure

Evaluation and appraisal of wind turbine foundations and towers

During the assessment and evaluation of wind turbine foundations and towers, the experts at 8.2 assess the condition of the supporting structures and determine existing damage.

The condition of the structures and the damage encountered are documented and evaluated in an expert report. Furthermore 8.2 provides construction optimization advice during the planning and construction of foundations.

Within the framework of construction supervision and quality assurance, 8.2 contributes to the prevention of damage in the manufacturing process, followed up by developing repair concepts and supervising repair work.

The experts at 8.2, with many years of industry experience, are active in the fields of monitoring the construction of new foundations, hybrid towers and infrastructure. The temperature monitoring system deployed by 8.2 allows a precise documentation of the heat and cooling process development. This is the basis for optimization and damage prevention on this part of the structure.

Construction supervision ensures that the preparatory work in the wind farm runs smoothly until the wind turbines are erected. Delays during transport and installation are thus minimized. Technical uncertainties in the construction process are clarified upfront.

Benefit from many years of experience in manufacturing and construction supervision as well as in damage assessments of wind turbine support structures.

Our wealth of experience results from our involvement in international projects with a total capacity of more than 4.5 GW.



Our services

Tower movement measurement

The tower movement measurement is the elementary instrument for evaluating the condition of the tower clamping in the foundation and planning of necessary repair work. This measurement method is used to check whether a wind turbine tower is firmly anchored in the foundation. The measurement report includes recommendations on further procedures for the owner / operator of the wind farm.

Measurement of the inclination of the WEC towers

If clarification is required, the inclination of the tower axis of the affected wind turbine is determined by measurement. The assessment of the admissibility of the tower inclination is carried out in the measurement report. This also includes recommendations for further procedures for the owners / operators of the wind farms.

Further services

Consulting during foundation design, Technical due diligence, Planning and supervision of repair and refurbishment measures, Quality assurance and construction supervision for new wind turbine foundations and towers, Assessment of wind farm infrastructure, Measurement of unfixed tower-restraints.

About us

The 8.2 Group brings together experts with decades of experience and young thinkers dedicated to the sustainable value of renewable energy projects. For onshore and offshore wind energy, photovoltaics, biogas, grid integration and QHSE. The 8.2 network offers a comprehensive range of technical consulting services and inspections with independent expertise.

From the first tender, through quality assurance, to lifetime extension assessments, our services cover the entire life

cycle of renewable energy projects. The expertise generated over the last 20 years is based on around 40,000 inspections of wind turbines, 20 GW due diligence projects on- and offshore as well as photovoltaic projects. Furthermore, the 8.2 Group has been involved in almost all German offshore wind projects right from the start.

As a client, you benefit from this unique wealth of experience through our broad knowledge base and the guaranteed quality level of our work.



32
offices



130
Experts
worldwide



40,000
Technical
inspections



15
GW TDD Wind
on-/offshore



4.2
GWP PV projects



5
GW Condition
Monitoring



Contact

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