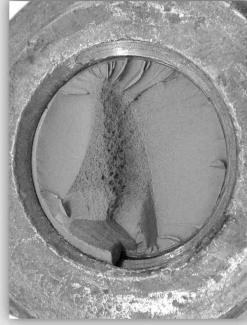


Damage assessment

SKI Ingenieures. mbH also offers services for the assessment of damage cases in the steel and concrete construction sector.

Our many years of experience in structural engineering in the design and assessment of structures provides us with extensive and specialised expertise.

For the analysis of the damage, SKI Ingenieures. mbH has an extensive portfolio of design software and measurement equipment at its disposal. This also includes calculations in the transient time range and service life time analyses. For further investigations, tests can also be planned and carried out in test laboratories.



Fracture pattern of a bolt

- Damage assessment
- Damage survey
- Comparative calculations
- Determination of causes
- Test-based analyses
- Reverse engineering
- Consulting activities
- Improvement
- Measurement monitoring

Professional associations and qualification

SKI is also part of the Bundesverband WindEnergie e.V. (BWE).

Among other things in the

- Working group on support structures
- Expert Advisory Board

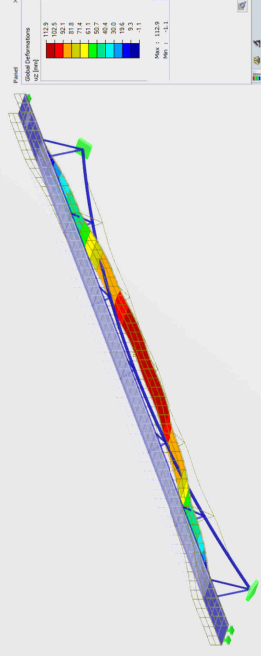
SKI is included in the following lists:

- Expert opinions for the continued operation of wind turbines
- Performance of the periodic inspection of wind turbines

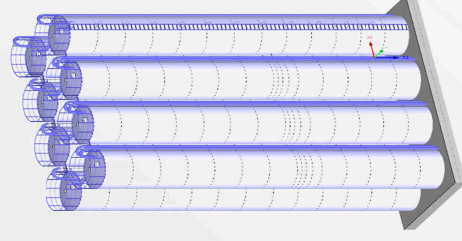
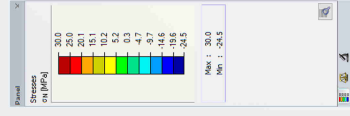
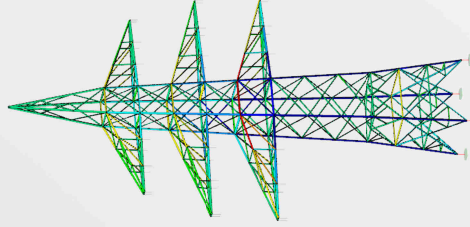
Prof. Dr.-Ing. Christian Keindorf is publicly appointed and sworn in by the chamber of engineers of Lower Saxony as an expert for support structures for onshore and offshore wind turbines.

Innovative solution for your construction

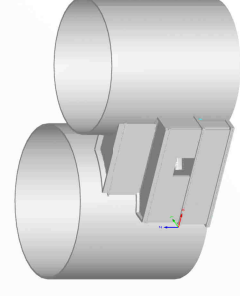
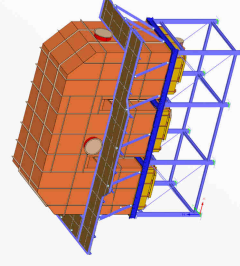
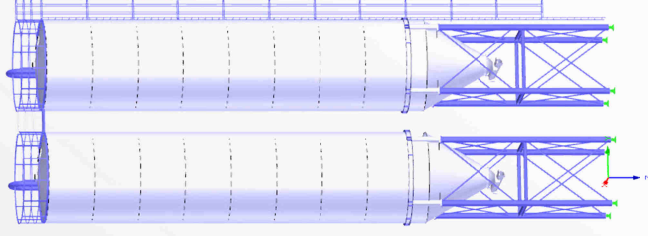
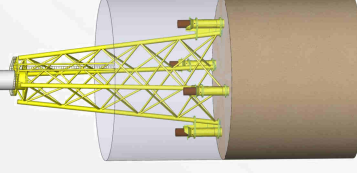
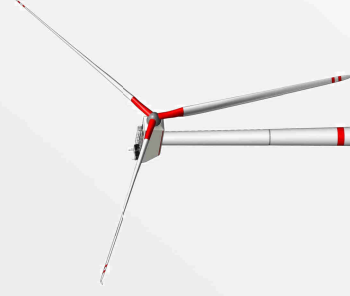
The portfolio of SKI Ingenieures. mbH includes a wide range of structural design of static and dynamic calculations. The designs include both the supporting and foundation structures in steel or also solid construction.



In addition to planning and consulting activities in the construction sector, we also deal with innovative development work in the field of supporting structures for regenerative energy systems, as well as the measuring and evaluation of constructions.



Innovative structural design



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Prof. Dr.-Ing. P. Schaumann
Prof. Dr.-Ing. C. Keindorf

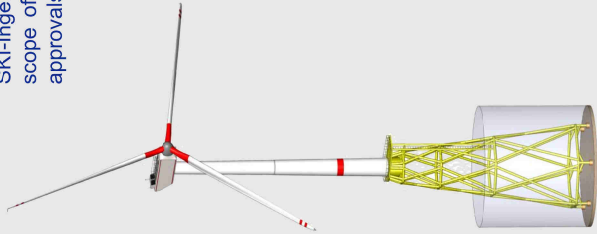
Consulting engineers and
Welding Engineers

www.ski-consult.de

Offshore wind energy

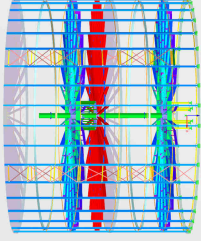
SKI-Ingenieurges. mbH can support you within the scope of development, concept studies and BSH approvals in the following tasks, among others:

- Tower construction
- Foundation structures
- Dimensioning of measuring masts
- Condition Monitoring System (CMS)
- Determination of wind and wave loads
- Grout connections
- Ring flange connections
- Bolted connections
- Welded connections
- Rammed monopiles
- Heavyweight foundations
- Dimensioning of driven piles

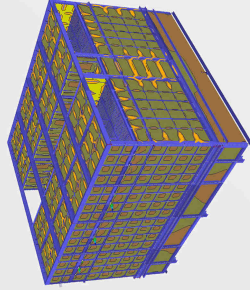


Structural and deep engineering

Our portfolio in the field of structural and civil engineering ranges from bridge construction to hall structures in concrete as well as steel frame construction to industrial construction with chimneys, masts and support structures for transmission power lines. We are also at your disposal for individual questions and novel construction methods for the supporting and foundation structure.



- Bridge construction
- Power transmission lines
- Hall construction
- Industrial construction
- Masts and towers
- Hydraulic marine steelwork
- Shallow and deep foundations

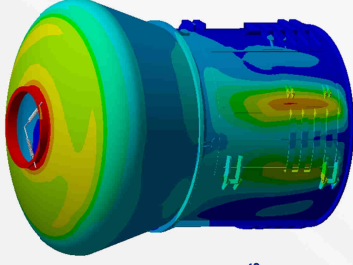


Structural analyses

SKI has numerous calculation tools at its disposal in order to be able to handle even complex tasks in the construction industry and civil engineering.

An excerpt from the service catalogue is listed below:

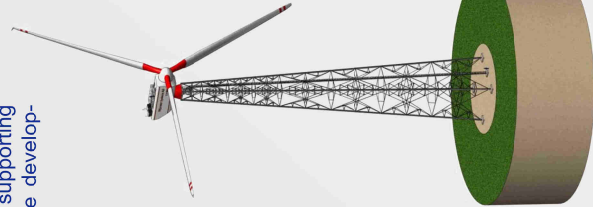
- Static structural analyses
- Dynamic structural analyses
- Finite element calculations
- Reverse engineering
- Linear/non-linear statics
- Temperature field calculations
- Earthquake simulations
- Vortex-excited transverse vibrations
- Stability investigations
- Connection technology
- Lifetime and fatigue analyses
- Eigenvalue problems (natural frequency, modal and buckling analyses)
- Dynamic response in the time and frequency domain



Onshore wind energy

In addition to the design of conventional supporting structures, we are also available for the development and realisation of new variants.

- Steel tube towers
- Reinforced concrete towers
- Hybrid towers
- Lattice towers
- Wired braced structures
- Prestressed concrete structures
- Small wind turbines
- Sandwich towers
- Tilt-up towers
- Continued operation of wind turbines
- Determination of remaining service life
- Shallow foundations
- Deep foundations



Measurement technology

SKI has a range of different devices available for carrying out measurement applications. We are happy to support you from the planning of the measurement concept and the application of the measurement chain to the professional evaluation and assessment of the measurement data.

Planning and implementation can be carried out for the following measurements individually or in combination:

- Accelerations
- Vibrations
- Velocities
- Forces
- Inclinations
- Optical measurements
- Stresses
- Strains
- Temperatures
- Deformations



Silo and tank construction

The portfolio of tanks, silos and vessels includes a variety of different designs and uses. For example, there are tanks with in-ground installation, substructure or tanks with intermediate and base frames in steel and also concrete construction with pre-stressed prefabricated elements.

- Tank construction
- Silo construction
- Reactors
- Biogas plants
- Prestressed concrete tanks
- Energy storages
- Pressure vessels
- Roofs and covers
- Platforms
- Walkways and platforms
- Pipe bridges and pipes
- Service buildings

