



Your wind farm is growing and your grid connection is becoming more demanding? With a substation, you can feed your green energy directly into the high capacity high voltage grid.

## From planning to high voltage

We provide comprehensive and professional support for the implementation of your project specific substation – ensuring it is ready right on time for your wind farm's commissioning.

With ENERCON, you achieve the electrical infrastructure required for optimal grid integration:

- **Turnkey substations (single-T/double-T connection configuration), including:**
  - 110 kV power transformers
  - Compensation systems
- **Retrofit upgrades and additional medium voltage switchgear for substations**

MORE POWER

# Substation

Unfold the value of renewable energy with us!



## Directly connected, directly advantageous

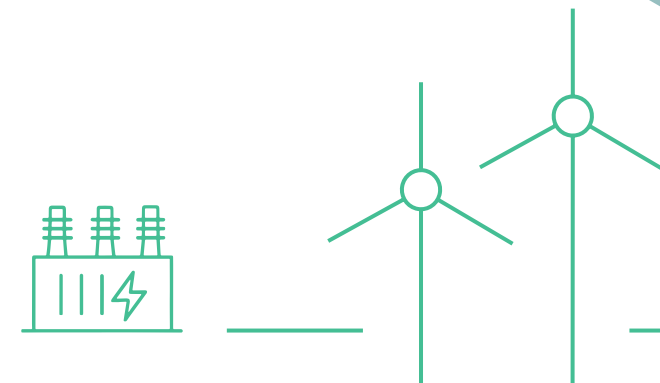
By connecting your renewable energy project directly to the high voltage grid via a substation, you are equipped for the future:

- + **Cost efficiency:** Designed and dimensioned specifically for your wind farm, your substation is delivered from a single source – cost efficient and predictable.
- + **Scalability:** Future expansions are already considered during planning and implementation, enabling flexible adaptation to changing requirements.
- + **Perfect system integration:** Wind farm, substation and optional operational management are technically aligned for seamless interaction.
- + **Maximum flexibility:** Optionally integrate additional energy assets such as PV or battery storage for extended commercial opportunities.
- + **Efficient project execution:** Parallel planning and construction shorten project timelines and simplify coordination.
- + **Long-term resource security:** We ensure early access to all major components – keeping your project on schedule.



## Your partner for turnkey substations

With more than 100 projects and 30 years of expertise in substation planning and construction, we are your reliable partner – including for complex grid connection solutions.

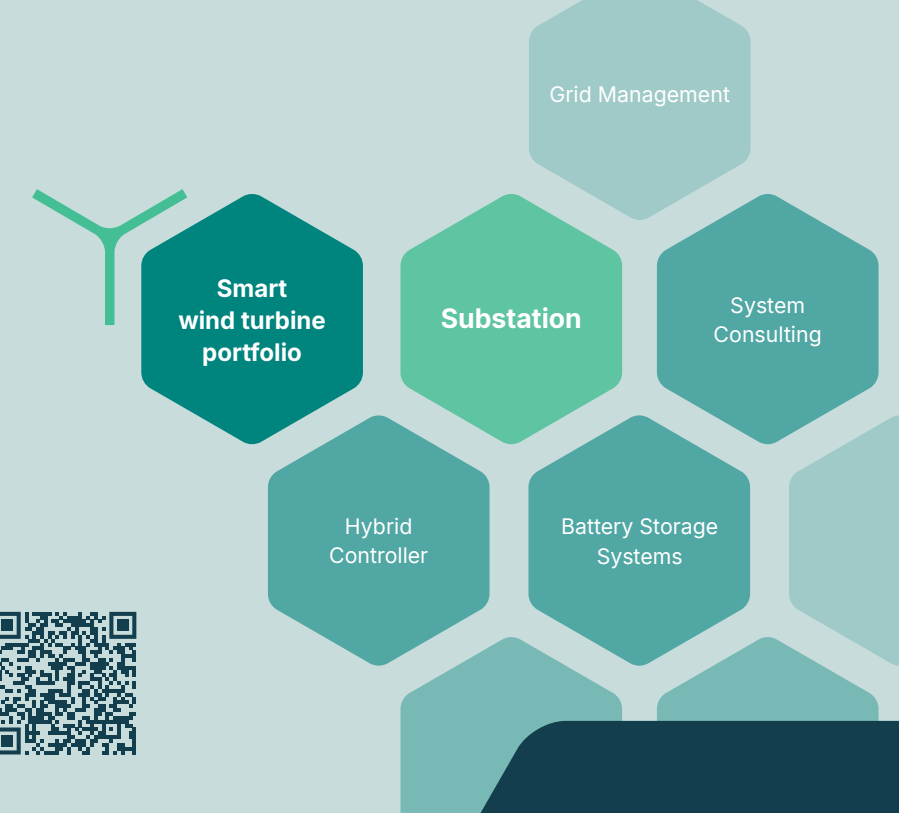




## Your expansion options: From wind farm to hybrid power plant

With a substation, you are well prepared for the future. Make use of our additional solution modules to leverage synergies across your wind farm – all the way to developing a fully integrated hybrid power plant.

Further information about hybrid power plants:



## Your substation – everything from a single source

We guide you through all planning and implementation phases, coordinating every discipline and stakeholder to ensure quality and deadlines at all times.



### From consulting to building permit

- Development of a grid connection concept and related technical consulting
- Wind farm grid calculations to comply with grid connection requirements
- Turnkey substations: single-T/double-T connection configurations
- Delivery of power transformers from Europe, including quality assurance through factory acceptance tests (FAT), on-site inspections, and final acceptance
- Technical support during permitting processes and coordination with grid operators
- Tender preparation for civil works and electrical design
- Detailed engineering of primary and secondary systems, including component specification



### Implementation

- Comprehensive project management, including contracting of all trades up to customer handover
- Quality assurance through factory acceptance tests, on-site testing, and continuous construction supervision
- Grid connection via overhead line or underground cable
- Preparation of documentation

### Commissioning & Handover

- Commissioning and handover to the customer and operator
- Substation extensions and upgrades according to VDE AR N 4120



Ready for your substation?  
Contact us!

Our Sales team is happy to support you at any time:

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