

SERVICE MAINTENANCE

SERVICE PROJECTS

COMPONENTS & SPARE PARTS



ALL YOU NEED

# Service Projects

## 30+ years of best practice experience

**CONNECTED**  
WIND SERVICES 

# All you need from an experienced special projects service organisation

Connected Wind Services has more than 30 years experience, extensive knowledge resources and strong local presence in delivering service projects and providing refurbished and fully fitted components with a speciality in gearbox refurbishment - both in the kW and MW classes.

Knowledge, flexibility and our ability to adapt to your individual requirements together with a high availability of special tools and components are key to our success. Whether it's a main component or blade inspection. Whether it's decommissioning, retrofitting, an

uptower repair or a wind turbine upgrade, we make sure it happens with minimal downtime and costs.

## Flexibility

Prior to each special project, we have a close dialogue with you to understand your specific needs and subsequently we have the flexibility to adapt our approach and plans to fit with your specific needs.

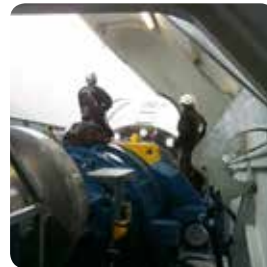
As a direct result of our standardised / conceptualised approach to special projects, you will experience our cost leadership to the

benefit of your yield.

## International coverage

Our international presence makes it possible for us to serve you regardless of your wind farm's location i Europe.

We have operational units in Denmark, Sweden and Germany and can support you throughout all European countries, either by our own service teams or via our extensive network.



A large yellow crane is lifting a white wind turbine nacelle in a field. The nacelle is suspended by cables and is being moved towards a tall white tower. The background shows a clear blue sky and a line of trees in the distance. A white van is parked near the base of the tower.

## Service Projects

- > 30+ years of best practice experience
- > Highest QHSE standards
- > Highest availability of special tools and components
- > Gear replacements
- > Gear endoscope inspections
- > Gear uptower repairs
- > Generator replacements
- > Blade inspections and repairs
- > Main component replacements
- > Reinstallation and commissioning projects
- > Decommissioning projects





## Case story

# Off-shore wind farm decommissioning

### **Know-how, expertise, special lifting gear and thorough preparations.**

When the Swedish wind farm Yttre Stengrund was decommissioned as the first offshore wind farm in the world, it was carried out with the assistance of highly skilled experts from Connected Wind Services.

Connected Wind Services was in charge of supplying both

lifting equipment and other specialized equipment and decommissioning the rotors, nacelles and the five wind turbine towers, each consisting of two sections.

A total of eight men from Connected Wind Services were assigned to the project for a period of one month. Thorough scheduling and factored-in challenging weather conditions meant

that the time table was fully kept.

*“We think they succeeded with flying colours and in perfect cooperation with all parties involved. The communication with Connected Wind Services has been really good throughout the two months the project lasted”*

Maria Hassel  
Project Manager, Vattenfall

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- > Yttre Stengrund was the first offshore wind farm in the world to be decommissioned.
  - > The wind farm was owned by Vattenfall and consisted of 5 NM 72/2000 wind turbines with a total capacity of 10 MW and had been in operation since 2001.
  - > The decommission project started in November 2015 and was finished in January 2016.
  - > Connected Wind Services was responsible for supplying both lifting equipment and other specialized equipment and decommissioning the rotors, nacelles and the five turbine towers, each consisting of two sections.
  - > The project was completed with Swedish Svensk Sjöentreprenad AB as main contractor.
  - > The complex, pioneer project was completed in time and to the full satisfaction of the customer.
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# Case story

## Yaw ring exchange

### Thorough planning and skilled technicians

It was far from an ordinary task the wind turbine technicians from Connected Wind Services faced, when replacing a damaged yaw ring on a Vestas V90 MK5 wind turbine in Dintestorp, Jönköping. In fact, this was only the second time that a yaw ring had been replaced on this type of wind turbine in Sweden.

A total of 10 working days, including the crane work, was calculated to perform the replacement of the damaged yaw ring. Despite one day of heavy snowfall and windspreads which made it impossible to work, the task was nevertheless solved in less than a week.

During the project unexpected challenges appeared. Even before the dismantling of the nacelle, the wind turbine technicians discovered a damaged gear on the yaw ring, meaning that the nacelle could not be rotated to the correct position. Therefore, as one of the first things, the CWS technicians had to exchange the damaged gear before work could continue.

After dismantling the blades and the nacelle and lowering the entire rotor and nacelle to the ground, it only took the technicians from Connected Wind Services three hours to replace the damaged yaw ring with a new one. Both the blades and the nacelle were lifted and remounted on the same day. The following day was used to retighten all bolts, reinstall the four yaw motors that operate the yaw ring and finally rewire all cables. That same evening, the wind turbine was reconnected to the network.





## Connected Wind Services

Connected Wind Services is Europe's leading Independent Service Provider for wind turbines. For more than 30 years, our multi-brand, multi-skill approach, combined with local competencies, has been the foundation for providing wind turbine operators and owners with unrivalled reliability and service.

We adapt to individual needs and are focused on the full life cycle of wind turbines.

Our reputation is built on efficiency, flexibility and safety within wind turbine Service & Maintenance, Service Projects and retail of Components & Spare parts.

We deliver integrated, high-value services that help maximize yield and protect assets – providing all you need from a single point of contact.

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