

**A SAFER FUTURE
FOR TOMORROW!**



www.complexwindservice.com



Complex Wind Services Team & Headquarters, 2023



About

Complex Wind Services

CWS (Complex Wind Services) is a premier wind turbine maintenance, repair, and installation company founded in 2016.

The company is dedicated to providing expert services to wind farm operators, facility managers, and private turbine owners. Our team of experienced technicians are highly trained and qualified to work on all types of wind turbines, from small residential units to large commercial and industrial systems holding all the ISO certificates available.

The company is committed to providing safe, efficient, and cost-effective solutions for their clients. They pride themselves on their ability to minimize downtime and maximize energy production through their preventative maintenance programs, as well as their rapid response time for emergency repairs.

With a focus on quality and customer satisfaction, **CWS** is a trusted partner in the renewable energy industry.





Departments

Complex Wind Services

-  Scheduled Services
-  Installation and Decomissioning
-  Blade and Tower Repairs
-  Main component Exchange
-  Troubleshooting



Departments



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Scheduled Services

Scheduled wind turbine services refer to the regular maintenance and inspections that are performed on wind turbines to ensure they are operating efficiently and safely. These services typically include tasks such as checking and replacing worn parts, monitoring equipment performance, and conducting visual inspections of the turbine blades and other components. Regular scheduled services help to prolong the lifespan of the turbine and minimize the likelihood of costly repairs or downtime.

Installation and Decommissioning

Installation of wind turbines involves setting up the turbine and its components, such as the tower, blades, and nacelle, in a designated location. This process typically involves heavy machinery, such as cranes, and a team of experienced technicians. Installation may also include connecting the turbine to the electrical grid and performing initial testing to ensure it is functioning properly. Decommissioning of wind turbines, on the other hand, is the process of safely dismantling and removing a wind turbine that is no longer in use. This may be done for a variety of reasons, such as the end of the turbine's lifespan, a change in the location or zoning of the turbine, or a decision to replace the turbine with a newer model. Decommissioning typically involves disassembling the turbine and removing all components, including the tower, blades, and nacelle, as well as any associated equipment such as transformers and electrical cabling.

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Blade and Tower Repairs

Blade and tower repairs for wind turbines involve fixing any issues or damage that may occur to the turbine's blades and tower. This can include tasks such as replacing damaged blades, repainting the tower, and reinforcing or replacing structural components. Repairing blades may involve fixing cracks, dents or any other type of damage that affect the aerodynamics of the turbine. In some cases, the entire blade may need to be replaced if it is no longer safe to use. The tower repairs may include fixing corrosion, leaks, or any other type of damage that affects the stability and integrity of the tower. Regular maintenance and inspections are essential to identify and fix any issues with blades and towers before they become bigger problems. These repairs help to ensure the safe and efficient operation of the turbine and extend its lifespan.

Main component Exchange

Main component exchange in wind turbines refers to the process of replacing key components of the turbine, such as the gearbox, generator, or control system, with new or rebuilt parts. This type of maintenance is typically done when a component has reached the end of its lifespan or is experiencing significant wear and tear. The main component exchange process may involve removing the old component and installing a new one, or sending the old component off-site for repair and then reinstalling it. The process may be planned in advance and done during scheduled maintenance, or it may be done as an emergency repair if a component fails unexpectedly.

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Troubleshooting

Troubleshooting wind turbines involves identifying and resolving issues that may be affecting the performance or safety of the turbine. This process typically begins with a thorough inspection of the turbine and its various components, such as the blades, gearbox, and control system. Once a problem has been identified, technicians will use a variety of tools and techniques to diagnose the issue and determine the best course of action. This may include testing the turbine's electrical systems, checking for mechanical problems, or analyzing data from the turbine's sensors. Once the issue has been identified, the technicians will take appropriate action to fix the problem, which may include replacing a part, making adjustments to the turbine's settings, or performing a software update. Troubleshooting is an ongoing process, and it's critical to keep the turbine running safely and efficiently, reducing downtime and prolonging the turbine's lifespan.

OffShore & OnShore Services

The Onshore wind energy industry encompasses all wind projects and wind farms that have been built on the land. The locations of these wind farms are mostly near the Black Sea areas where the wind patterns result in greater efficiency and production of electricity. While offshore projects are developed in areas where the ocean floor is relatively low (between 25 and 50 meters) so that the support structures for the equipment can be fixed to the ground.

Stats

38+

Wind parks

72

Projects and counting

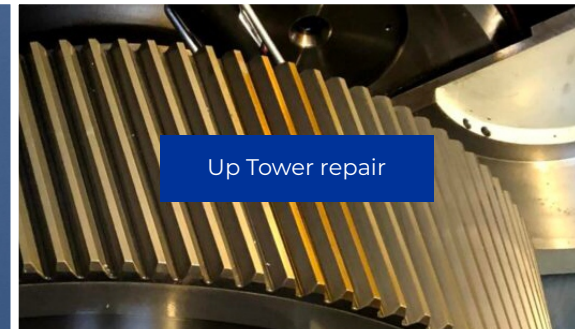
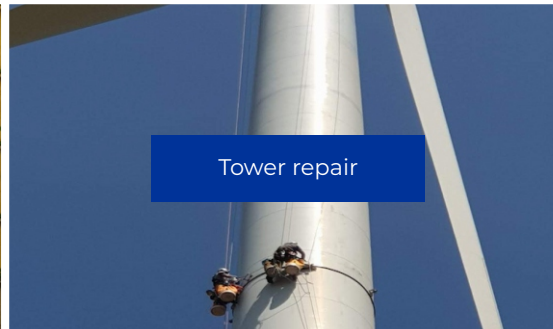
9

Companies

100+

Employees in CWS

OffShore & OnShore Services





Charity

Complex Wind Services

Charity work is often done through non-profit organizations, which rely on donations and volunteer labor to carry out their mission. Many individuals and groups also engage in charity work independently, by organizing events or campaigns to raise money or awareness for a specific cause. CWS is part of annual charity work.



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