



# Replacement of wind farm generator hoisting plan





## Overview

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This Major Component Exchange with Self-Hoisting Cranes project (SHC), delivered by OWC and WavEC, built on this previous research. Wind farm installations call for cranes that are larger and have longer booms, some 300 or more feet in the air. Mobile cranes, especially crawlers and all-terrains, are. A generator on a turbine at the Kincardine floating wind farm off the coast of Scotland has been replaced, in what is being claimed as the “world's first” in-situ major component exchange at a floating offshore wind farm. A short movie. Designed for replacing key wind turbine components like gearboxes and generators, the crane successfully handled the full process of removing, replacing, and reinstalling the gearbox of a Goldwind GWH204-6. 7WM turbine without using a main crane. This test marks a major breakthrough in China's smart. The literature review brings to light that the current MCR reference method for floating wind turbines is the tow-to-port (TTP) method, which consists of unhooking the turbine from its mooring system and then towing it to a port where it will be attached to perform the repair in a stable. An alternative offshore maintenance strategy is to use self-hoisting, turbine mounted cranes. The final crane height is provided by the turbine structure, rather than a heavy lift vessel.



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Deye inverters and Deye batteries are more compatible.

### [Lift Planning Requires Strict Attention When Working On Wind Projects](#)

The article discusses the importance of lift planning for wind projects using mobile cranes. It emphasizes the need for strict attention to ground conditions, weather monitoring, ...

### Microsoft Word

The wind turbine being moored in the port, where the movement of the waves are almost non-existent, and the crane being on the quay, there is no relative movement between the wind turbine and the crane, so the ...



### [World's 1st generator swap on offshore wind turbine done in Scotland](#)

Dutch firm LiftOff, in collaboration with wind turbine manufacturer Vestas, has achieved the major feat of carrying out a generator swap for an offshore wind turbine without towing it to



### [Perfect Debut!JINLI JLL560 Self-Hoisting Maintenance Crane ...](#)

Designed for replacing key wind turbine components like gearboxes and generators, the crane successfully handled the full process of removing, replacing, and reinstalling the gearbox of a ...



### [World's First Floating Wind Turbine Repair at Sea Signals Industry](#)

By leveraging LiftOff's GenHook up-tower crane technology and Vestas' turbine expertise, the team replaced a generator on a V164-9.5MW turbine without the need for massive ...



### [LiftOff up-tower crane technology used in world's first in-situ major](#)

Netherlands-based company LiftOff's up-tower crane technology was recently used to perform the world-first Major Component Exchange (MCE) on an offshore floating wind turbine while ...



### ['World's First' In-Situ Generator Swap on Floating Wind Turbine](#)

A generator on a turbine at the Kincardine floating wind farm off the coast of Scotland has been replaced, in what is being claimed as the "world's first" in-situ major component exchange at a floating ...



### [World's First Offshore Floating Wind](#)



## Turbine Component Exchange

A group of specialized companies successfully completed a major component exchange (MCE) of an offshore floating wind turbine at the Kincardine Offshore Wind Farm, southeast of Aberdeen, Scotland.



## **Major Component Exchange with Self-Hoisting Cranes**

Identify solutions to conduct onsite major component exchange of Wind Turbine Generator (WTG) nacelle components without relying on large heavy lift vessels or towing a substructure to port.

## World's first in-situ major component exchange on floating wind ...

Based in The Netherlands, LiftOff provides specialized major component exchanges for wind turbines. The company offers full turnkey exchanges as well as specialized lifting services which minimize ...





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