

Title: Wind turbine replacement wave

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Our aim is to identify optimal replacement policies that minimize the expected total discounted setup, replacement, and lost power production costs over an infinite horizon.

This paper presents the first comparative study evaluating towing and onsite replacement strategies for heavy maintenance of floating offshore wind (FOW) turbines.

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 ...

Wave disturbances cause undesired oscillations in rotor speed and increase structural loading. This paper focuses on investigating the potential of using wave preview measurement in the ...

The major replacement rate values found using this approach are presented and compared between different turbine configurations.

Using the approach outlined, the calculated motion for the IEA 15MW reference turbine with UMaine reference platform did not exceed the motion limits for safe and effective technician working over the ...

The costs associated with the maintenance of next-generation offshore wind turbines are a source of uncertainty to developers, in particular due to the unknown replacement rate of large components.

Here, we report on the development and validation of Wave Reconstruction and Prediction (WRP) algorithms that improve the active control of floating structure motions, achieved, e.g., by moving ...

After ten to twenty years of operation, wind turbines often reach the point where central components reach their wear limits. Large components such as gearboxes, main bearings, ...

The future commercial floating wind farms will be far from the coast, and it seems necessary to develop



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reliable solutions for heavy maintenance operations at sea, such as replacing a ...

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