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Title: Dangerous points of wind turbine blade inspection

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Wind turbine blades, while engineered for durability, are constantly exposed to extreme conditions--high winds, UV radiation, rain, ice, and even lightning strikes. Over time, these elements cause wear, ...

Wind turbine inspection is a tedious and dangerous process due to the extreme height and complexity of the turbine's design. Inspections are critical to identifying core defects, delamination, internal ...

Blades are subjected to demanding and wide-ranging environmental conditions and severe operational fatigue and are challenging to access for inspection and repair. Nonetheless, regular maintenance of ...

Though minor, can be useful to identify as position references, or for blade identification. None expected. Minor damage or defects that exceed supply specification acceptance criteria. Multiple cosmetic ...

Therefore, damage detection for WTBs is of high importance for preventing failures, planning maintenance, and ensuring the operational stability of wind turbines.

Wind turbine blade inspection methods include non-destructive tests such as visual inspections, drone surveys, ultrasonic testing and phased array. Wind turbine inspection is important to identify potential ...

Each blade is divided into two sections, and both sections must be visually inspected for cracks, damaged hardware, and other defects that could lead to failure. Offshore wind farms face the ...

Traditional inspection methods, such as rope access, are time-consuming, dangerous, and often limited in scope. Technicians must climb the tower and inspect the blades manually, which can be risky and ...

During blade inspection, technicians commonly encounter a range of issues that can affect the performance and safety of the wind turbine. Some of the most common issues include leading ...



# Dangerous points of wind turbine blade inspection

Wind turbine blades, which can reach lengths of up to 107 metres, are subjected to harsh environmental conditions, including high winds, rain, snow, and ultraviolet radiation.

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