

Who makes wind turbine blades?

SANY Renewable Energy has an independent production capacity of wind turbine blades, and pursues product research and development goals with "High Reliability, High Power Generation, and Low LCOE". The company, with a professional R&D team of 200 engineers and technicians, adopts lightweight design and embraces high blade length-to-diameter ratio.

What are the components of a wind turbine system?

To provide all the required functionality, the system comprises the following components: Deep CNN models: There are two neural network models: the first one is in charge of locating the wind turbines and their blades, and the second one is in charge of identifying the different possible surface damage.

How to inspect a wind turbine blade?

Currently, manual inspection of each wind turbine blade using ropes is the most used technique. ⁹ Due to the long duration of the maintenance period, it is important to plan the turbine shutdown, which results in a significant loss of power generation.

How to identify wind turbine blade damage?

The damage identification of the wind turbine blades can be realized by the combination of the deep feature extractor and the classifier. Comparing this work with ours, they only consider trailing edge damage and delamination as possible surface defects and they have not validated it in a real wind farm.

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?Good material? Small wind turbine adopts high quality pvc, aluminum alloy, pp material, injection molding, anti-corrosion, anti-rust, anti-deformation, long service life. ?Reliable and efficient? This ...

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