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Solar Energy South Africa

Wind blade generator explosion incident

Overview

Did GE vernova break a wind turbine blade?

Link Copied! Giant wind turbine blades for the Vineyard Winds project are stacked on racks in New Bedford, Massachusetts. The massive offshore wind turbine blade that broke and spread fiberglass and foam debris across Nantucket beaches this week was one of several recent failures of blades made by GE Vernova – a top US wind turbine manufacturer.

Why are giant wind turbine blades stacked in New Bedford Harbor?

FILE - Giant wind turbine blades for the Vineyard Winds project are stacked on racks in the harbor, July 11, 2023, in New Bedford, Mass. The maker of a massive wind turbine blade that broke apart off Nantucket Island and washed up on the beaches says a manufacturing problem was responsible. (AP Photo/Charles Krupa, File).

What happened to Vineyard Wind turbine blade?

The massive turbine blade – as long as a football field – was part of the Vineyard Wind farm off the coast of Massachusetts and its islands, Martha’s Vineyard and Nantucket. The blade was “broken” and “folded over” on Saturday, Vineyard Wind CEO Klaus Skoust Møller told Nantucket residents and officials at a public meeting Wednesday night.

What happened to a broken wind turbine?

Soon, a picture of the broken turbine itself surfaced. The 351-foot blade had snapped about 65 feet from the base and what remained of it hung slackly, dangling over the ocean. It was not a good look for an industry already struggling against economic headwinds and public concern about its impacts on the ocean environment.

Are wind turbine blades a vulnerability?

As the global wind energy industry grows, the size of the turbines themselves

are also growing. But Mukherjee said such rapid upscaling also comes with “immense engineering challenges,” with blades in particular emerging as a “significant vulnerability.”.

Why are wind turbine blades breaking?

“It is clear that major (manufacturers) have all faced blade breakages,” Mukherjee said in an email. The failures were caused by issues such as design flaws and manufacturing lapses by contractors, he said. As the global wind energy industry grows, the size of the turbines themselves are also growing.

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Broken Vineyard Wind Turbine Blade Scatters Debris ...

A Vineyard Wind turbine blade broke over the weekend, scattering debris into the Atlantic and prompting an investigation by the manufacturer and federal officials. The offshore wind energy company, which ...

What We Know About The Cause Of The Vineyard ...

The failure of one of Vineyard Wind's turbine blades has shut down the ambitious offshore energy project and littered Nantucket's beaches with debris. But what do we know so far regarding the cause of the failure? ...

'Offshore incident': Some Nantucket beaches closed ...

NANTUCKET, Mass. -- An investigation is underway after an "offshore incident" in the water off Massachusetts damaged the blade of a towering wind turbine over the weekend, officials said. A Vineyard Wind ...

Wind Turbine Blade Technology: Designing for Efficiency

Wind turbine blades are the primary components responsible for capturing wind energy and

converting it into mechanical power, which is then transformed into electrical energy through a generator. The fundamental goal of blade design is ...

Damaged Vineyard Wind turbine blade likely to fall

Discussion of Vineyard Wind's damaged turbine blade begins at 10:20. The 350-foot turbine blade was undergoing testing when it sustained damage Saturday evening. Vineyard Wind and GE Vernova, the manufacturer ...

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