

Wind turbine blade explosion

What happened to a giant wind turbine blade?

A giant wind turbine blade fell into the sea. It washed up on Nantucket. The accident south of Cape Cod, Mass., involving the country's largest offshore wind farm, is galvanizing opposition to such projects. A damaged turbine blade now marks Vineyard Wind, the largest offshore wind project in the United States. (Burton Balkind)

What happened to Vineyard Wind's turbine blades?

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? Vineyard Wind first disclosed the incident at 3:41 p.m. on Monday with an email announcement regarding an "offshore incident."

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.

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.

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.

How many turbine blades are broken?

The total number of broken turbine blades has been relatively low compared to the large number of blades manufactured each year. Wind farm developers ordered around 20,000 turbines - each with several individual blades - in 2023. "If we consider that for scale, then the failure rate remains low," Mukherjee said.

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A "significant part" of the remaining damaged blade detached from the turbine early Thursday morning,

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Vineyard Wind said in a news release. The US Coast Guard confirmed to CNN it has located a ...

Footage shared online shows the blades of the turbine, which is in Ayrshire in Scotland, rotating faster and faster before blowing off. Firefighters were called to the scene after a blaze broke out, but it died down before they ...

The wind turbine's tower snapped in two and its blades were crushed An investigation has been launched after a 337ft (115m) wind turbine collapsed. People who live nearby said they heard a noise ...

Energy. /. Investigations still ongoing into "root cause" of turbine blade issue. VIKING wind farm developer SSE Renewables says investigations are still continuing into an ...

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GE Vernova, the manufacturer of the turbines and blades being installed by Vineyard Wind, stated early Wednesday that it intends to remove "some blades" from the wind farm after the re-examination of more ...

The airflow inside the blade continuously oscillates between the right web and the trailing edge. It is recommended to improve the toughness of epoxy resin adhesive and set the down ...

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