

Title: Retired wind turbine blades

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This article explores the evolution of blade disposal practices, current solutions, and innovations that promise a more sustainable future for wind power infrastructure.

Across Europe, efforts to "repower" ageing windfarms with larger, more efficient turbines are boosting clean energy but creating a new problem: what to do with thousands of retired blades.

As a result, several manufacturers of wind turbine blades have teamed up with recycling companies and makers of construction materials to convert retired blades to useful products.

Researchers at Hebei University of Technology and the Center for High Pressure Science & Technology Advanced Research in China have developed a multistep chemical process ...

Recycling the blades is a greater challenge, but an important one to overcome. In 2021 in the US, 8,000 blades --which each average about 200 feet--were retired. By 2050, the world may ...

After retirement, wind turbine components are typically recycled or placed in a landfill. The materials making up turbine blades are more difficult to recycle, posing a problem for...

Unfortunately, most used wind turbine blades end up in landfills, which detracts from the "green" aspirations of wind power. A 2015 study published in the journal *Waste Management* projects ...

Khalil Ahmed and colleagues propose a simple fiber-resin interface separation method for composites of retired wind blades using only water at human-safe temperatures.

One of the first wind turbine repurposing initiatives in history was the product of the partnership. Completed in 2008, the playground in the yard of the Kinderparadijs Meidoorn is designed like a ...

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