

Solar Energy South Africa

Wood for wind turbine blades



Overview

Are new wind turbine blades made of wood?

Photo (cropped): New wind turbine blades made of wood are designed to help improve overall sustainability and help alleviate wind turbine recycling issues (courtesy of Voodin Blade Technology via email). Have a tip for CleanTechnica?

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Can wooden wind turbine blades be sustainable?

Now Finnish renewable product maker Stora Enso, one of the largest private forest owners in the world, is partnering up with German start-up Voodin Blade Technology to make sustainable wooden wind turbine blades. The two companies are currently producing a 20-meter (66-foot) blade and are planning to make an 80-meter (262-foot) blade.

What are voodin blade technology wind turbine blades made of?

Voodin Blade Technology's wooden wind turbine blades are made of LVL. Wood is a much more sustainable raw material than the currently used composite materials. The fiberglass and epoxy resin cannot be reused, meaning the material will go to waste after the blade is decommissioned.

Can wood be used for wind turbine towers?

In addition to its collaboration with Voodin Blades, Stora Enso recently announced a partnership with Swedish wood technology company Modvion to establish wood as the material of choice for wind turbine towers. Modvion erected the first wooden wind turbine tower on an island outside Gothenburg, Sweden, in May 2020.

Can rotor blades make wind turbines more sustainable?

Two companies, Stora Enso and Voodin Blade Technology GmbH, are

collaborating to make wind turbines more sustainable by creating wooden rotor blades for wind turbines. Stora Enso is a biomaterials and wood construction company, and Voodin Blade Technology GmbH is a German startup developing these innovative blades.

Could voodin's wood blades help bolster wind turbine technology's green credentials?

To this end, Voodin's wooden blades could be the perfect solution to bolster wind turbine technology's claimed green credentials. Composite materials, such as fiberglass and epoxy resin, cannot be reused, which results in wasted material after decommissioning. Wood, on the other hand, is a much more sustainable raw material.

Wood for wind turbine blades



Voodin Blade Technologies

The application of wood in the most critical, demanding, and strained component of wind turbines demonstrates the capability of renewable materials and should inspire other industries to challenge the status quo and consider the adoption ...

The world's first wooden wind turbine blades are now ...

By crafting wood wind turbine blades, we strive to catalyze the shift towards renewable energy and materials. Driven by a passion for sustainability and engineering excellence, our team is dedicated to pushing ...



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