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## World's tallest wooden wind turbine makes wind energy truly sustainable

The industry wants to make green energy even greener.

by Tibi Puiu/ July 31, 2023

In a groundbreaking venture, Swedish engineers at Modvion are harnessing one of the oldest building materials in history to revolutionize wind power efficiency. Their unique wooden [wind turbine](#), soon to be the world's tallest, is making waves in the renewable energy industry. Wooden turbines are cheaper, more efficient, and even stronger than steel ones.

Modvion previously gained recognition for erecting the [first wooden wind turbine tower](#) on an island outside Gothenburg, Sweden, in May 2020. Now, they are ready to break new ground with their first commercial installation commissioned by Sweden-based energy company Varberg Energi.

Standing tall at 105 meters (344 feet) – including the blades – this impressive structure will help make wind power even more sustainable. The final modules, constructed using laminated veneer lumber, are currently in production at Modvion's factory in Gothenburg, which opened last year.

To create the towering structure, the wooden modules made from Scandinavian spruce are assembled at the construction site, forming seven sections that will comprise the finished tower. Construction work began earlier this year on the foundation, and now the modules are being transported to the site for section assembly.

But why wood? The designers found that laminated wood, when integrated into the turbine structure, outperforms steel in both strength and weight. This makes wind power more efficient, tapping into stronger and more stable winds at higher elevations.

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