



Foldable portable wind generator

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Canadian start-up Aurea Technologies has developed a portable wind turbine that compacts down to the size of a water bottle and was designed to provide reliable, renewable energy on the go.

The turbine weighs less than 1.4 kilograms and has a power-to-weight ratio of 29.5 watts per kilogram, which according to Aurea Technologies makes it more efficient than any comparable solar panels, thermoelectric stoves or water turbines.

"This, paired with Shine's high-efficiency blades and lightweight design, allows it to produce the most amount of energy for the least amount of weight compared to any other portable renewable charger."

While portable solar chargers are reliant on direct sun exposure, the company says the Shine Turbine works in a wide range of conditions including wind speeds from 13 to 45 kilometres per hour and temperatures from zero to 40 degrees Celsius.

"We're offering wind power that fits in your backpack," Adalay said. "Wind is the second-largest producer of clean energy in the world, yet most people don't have direct access to it."

"As a team of outdoor enthusiasts with backgrounds in science and engineering, we set out to create a wind power product that gives users the freedom to produce their own clean energy day or night, rain, cloud or shine."

Aurea Technologies was founded in 2017 and is based in Nova Scotia, Canada. The company launched the Shine Turbine on crowdsourcing platform Kickstarter in 2021 before putting it into production.

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