Powerpod turbine kickstarter

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Designed specifically for urban and residential environments, each 1kW wind turbine would create up to three times more power than a regular, mounted turbine. The extra power is down to an advanced blade system in the pod, which increases wind speed by 40 per cent.

In areas where average speeds can be low, regular wind turbines get just enough wind to start moving, but generate hardly any electricity. What a Powerpod does is accelerates the wind speed itself, so that more power is created, more often.

The pod takes air and funnels it into a smaller exit than in a normal turbine, which speeds it up before it hits the internal blade. Wind can enter from multiple directions at once too, something which can often cause regular turbines to shatter.

Increasing wind speed also reduces the need to put Powerpods on tall poles, which are expensive to mount and take up a lot of space. "They are also ugly, in our opinion," says Hodges.

Consumers can use a Powerpod by itself, hooking it up to a power system the same way as solar panels, with the same equipment. Or, if you already have a solar system, it can connect seamlessly and provide an additional, diversified source of power.

Hodges has created a map showing the average daily power generated from a 1kW Powerpod, vs a 1kW solar system in different cities around the world. It shows that Powerpods have the potential to produce equal or greater power than their more expensive solar counterparts.

The Powerpod is cheaper than solar panels and more efficient in places that get less than 300 days of sun a year, Nick Hodges, the company’s founder, explained to Euronews.

Designed specifically for urban spaces, the 1kW portable wind turbine creates three times more power than an equivalent regular wind turbine. An advanced circular blade system in the pod increases wind speed by 40 percent, Hodges says.

When developing their portable wind turbine, Halcium wanted to create a machine that fits seamlessly into the urban space and wouldn’t be criticized as an eyesore -- as is often the case with regular wind turbines in the countryside.

The company developed a portable machine that resembles a dustbin, in form and size. The Powerpod can sit on any stable surface in order to generate electricity, meaning that, in theory, it could become as ubiquitous as the dustbin in cities.

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In order to efficiently generate renewable energy, the Powerpod captures air before funneling it through a small airway that speeds it up before it reaches the circular blade inside.

Halcium’s creation joins a list of impressive mini wind turbine designs -- such as this design that harnesses the power of traffic -- that could revolutionize the way we generate energy in the future.

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