

## Whirlpool turbine energy

If you live near a river and want clean energy to power your home, we have great news for you. Belgian company Turbulent has created a fish-friendly whirlpool turbine that can be installed in only one week.

The innovative turbine can provide energy 24 hours a day for dozens of homes by being installed in most rivers and canals. It also delivers low-cost power as the generator just uses flowing water to produce energy.

It can effectively power up to 60 homes. The system has a long operating life and requires little maintenance as a self-cleaning screen captures large debris. Best of all, it can be remotely monitored.

Turbulent says its whirlpools are a much better option for areas that have rivers than solar energy. "While solar is a great way to supplement power needs with renewable energy, a small hydro plant is the clear choice wherever there is a viable river. It is cost-effective, reliable, and much more compact," writes Turbulent on its page.

The firm has already built one of its turbines for the Green School in Bali, Indonesia. The Green School wanted to power a world-class education entirely through renewable energy in the middle of the jungle.

This is where Tubulent's turbines came into play. They managed to generate power from small rivers without needing a big height difference and with no negative impact on their local environment. The Turbulent whirlpools have also proven to be highly resilient in extreme weather such as tropical storms.

Now Turbulent is building whirlpools around the world in Taiwan, the Philipines, Suriname, Portugal, and Chile. Past projects include whirlpools in France, Estonia, and Chile.

There is only one issue with the Turbulent whirlpool. It only works when water is free-flowing meaning if the water were to freeze the whirlpool would come to a halt. Luckily, none of the locations where the turbines are built have this problem.

The Belgian company Turbulent has developed a whirlpool turbine that can provide energy 24 hours a day for dozens of homes. Inspired by nature, the decentralized hydro-power plant can be installed in most rivers and canals, providing a low-cost power solution for rural areas around the world. The generator uses flowing water to produce energy - enough to power up to 60 homes. According to the company, the system is fish-friendly, has a long operating life, requires low maintenance (as the turbine is the only moving part) and it can be remotely monitored as well.

The system can easily be installed within a week's time at every natural height difference in a river or canal. At first, a hole is dug near the water source to install a concrete basin from prefabricated parts. Then,

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a generator and impeller are installed inside the basin and earth is put back in place. When the river or canal wall is raised, water runs into the basin, forming the vortex and getting the turbine going.

The special Turbine can be installed in most rivers to use the flow of water to produce energy. The company claims that the turbine is enough to power up to 60 homes. According to Turbulent's website, the turbine is very easy to install and is low maintenance.

It has only one moving part thus requiring little maintenance. It has a self-cleaning screen that filters debris out of the turbine. An optimized concrete basin guides the water flow into a vortex that powers a high technology impeller. The water then flows back into the stream. The energy produced can be directly connected to the end-appliances, and can also, simultaneously be connected to the national distribution grid.

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