



# COMPARING FLOWER TURBINES IN AN OPEN FIELD

## Comparing Flower Turbines in an Open Field By Flower Turbines, copyright 2024

We were asked to present a case of how Flower Turbines could compare to a horizontal axis wind turbine in an area of around 25 by 25 meters.

A horizontal axis wind turbine should be no more than 20 meters diameter to make sure not to extend to a neighboring property.

At 6 m/s, which is good wind, such a turbine would usually produce 12 kilowatts per hour

Now for Flower Turbines:

If we used large turbines, containing 5-meter-high blades, we could place around 8 turbines with a 2.5-meter diameter in each of 3 rows. That would be 24 turbines with an output of 2.953 kilowatts each, so the total output from that piece of land would be 71 kilowatts per hour.

The Flower Turbines would likely have a higher initial expense but a lower long-term maintenance and more energy from the project. So Flower Turbines would provide much more energy at a roughly equivalent cost per project.