

# WIND

ENERGY

# WHAT IS WIND ENERGY?

It's an energy we're getting from the air flow. The wind turbines are catching the wind. When there is the wind then it starts moving. When they're moving they're generating an electricity.

We can find wind energy near the seas, on the hills or on the lowlands. The biggest wind power producers are: China, USA, Germany and India.

## WIND TURBINE

The wind turbine is the most important thing. It's an generator of electricity. The electricity starts generating right when the wind blows to the blades of the turbine. Wind turbines are approximately 80 meters tall. Wind Turbines should be at least 300 meters from the nearest houses. 1 big wind turbine in the USA can generate power for at least 200 houses!

When there are more wind turbines at one place, then it's called wind farm. The biggest wind farm is in California, USA. It generates 1020 MW of electricity. There are about 600 wind turbines.

## **BLADES**

The blades will start moving while there is wind stronger than 20km/h

## **HUB**

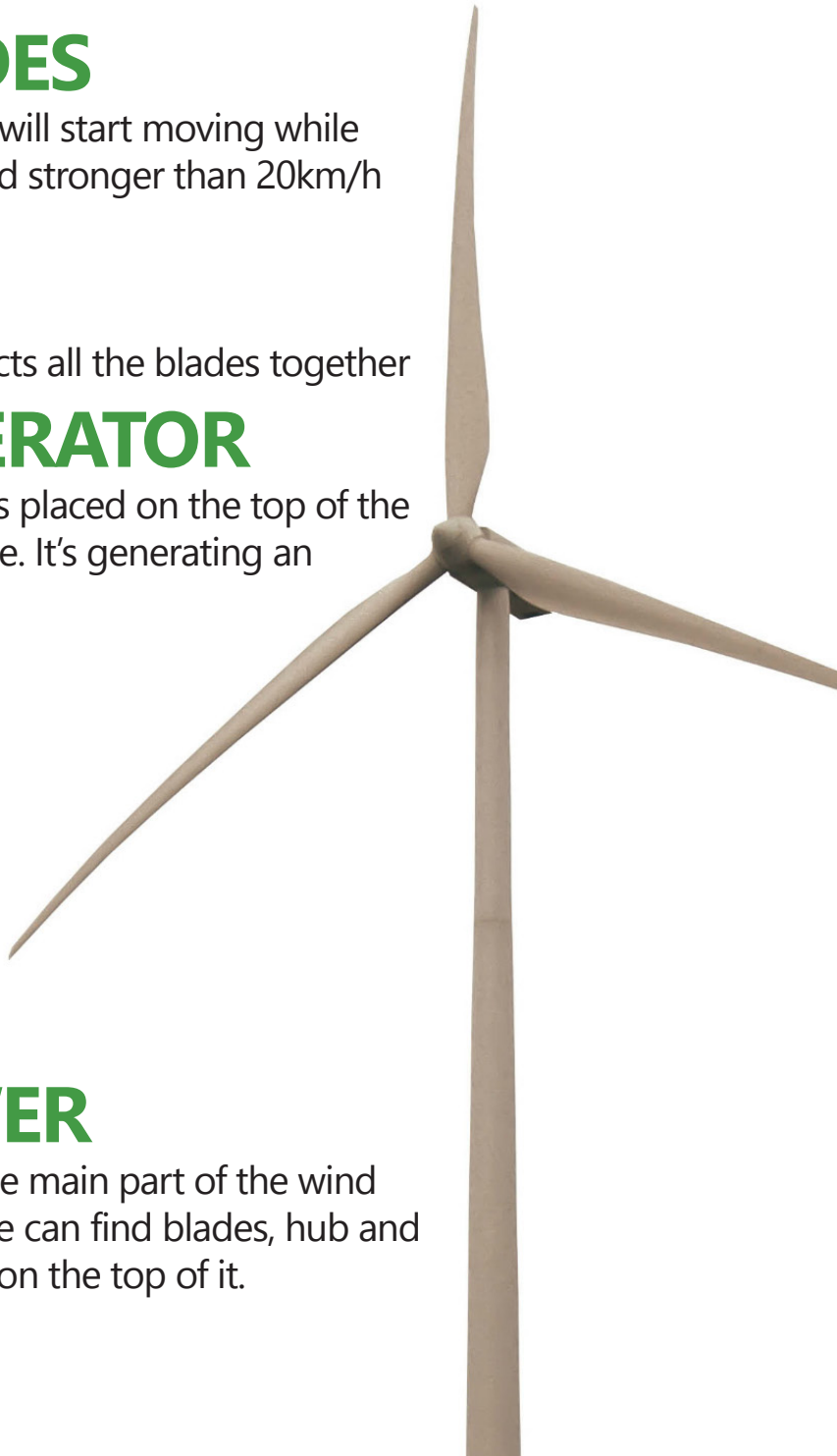
Hub connects all the blades together

## **GENERATOR**

Generator is placed on the top of the wind turbine. It's generating an electricity.

## **TOWER**

Tower is the main part of the wind turbine. We can find blades, hub and generator on the top of it.



**Save our planet!**

