

# < We introduce our reseach about wind Power >

## ① The wind Power mechanism

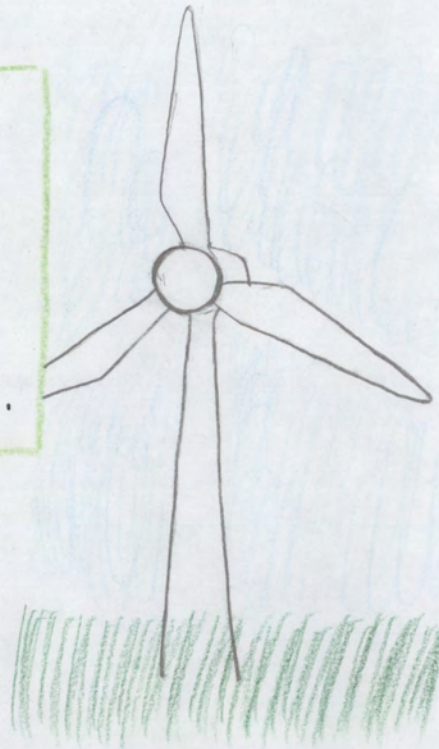
- The wind energy is changed into machine energy by using wind mill.
- The motor runs when the windmill moves.

↓  
Electricity is made

## ② The wind Power in Aomori

### ① Rokkasho Energy Park

- The windmill is 100 meters high.
- 92 machines in total
- It produces the most energy in Japan.



## Research about wind turbine

HIROSAKI MINAMI  
HIGH SCHOOL

First grader 13HR group 4

Member

## The purpose

We experiment on the difference between Loop wing and 3-bladed wind turbine for making electricity

## Hypothesis

Loop wing can make more electricity than 3-bladed wind turbine.

## Method

We experiment with these two types and try to find out the difference of the amount of power generation.

## Way to do the experiments

Use the two wind turbine models. One is 3-bladed model. The other is Loop wing model. We setup each wind turbine in front of ventilation. And when doing experiments. ventilation and wind turbines are thirty centimeters apart.

We make wind power strengthen and see how power is generated.

Each time to generate electricity is 30 second, one minute, and 3 minutes.

## Result

Three bladed wind mill couldn't generate electricity.

But Loop wings wind mill was able to generate electricity.

## Consideration

Loop wings wind mill was able to power generation even with a weak wind

Therefore Loop wind mill can generate electricity more efficiently

## Future Tasks

Prepare another three bladed wind mills

Compared the amount of power generation of three bladed wind mills with that of Loop wings wind mills

So we want to research whether

Loop wings wind mills is really better than three-bladed wind mills.