

What is a way to use wood chips?

Wood chips in Aomori's Biomass energy is reused wood which isn't necessary on Apple farms. Because forest's woods it doesn't cut down and doesn't waste the earth's environment. So, material which is used for Biomass energy is very good and they have to consume it.

These things are very grateful for Apple farm's people. It is important to understand saving the forest wood.

What is Biomass energy in Aomori?

Biomass energy which uses wood chips is done in Aomori. These systems which many tons of wood chips in a day are complex. But now the continued possibility of energy is fit for a way to make electricity. It doesn't exhaust CO₂ and not using a limited priceless resources is very good.

▷ Theme

The first step towards sustainable energy

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▷ PURPOSE

Can woodchips garbage
make electricity?

▷ HYPOTHESIS

Woodchips are made from wood.
It is a limited resource.
It is difficult to make electricity
relying only on woodchips.
We wonder if we could combine
woodchips with biomass power
generation made of waste.
But biomass power plant that
made of waste has many more
processes than power plant
made for woodchips.



▷ PROCEDURE & RESULT

Our experiment uses Yeast fungi for fermentation of Strawberry calyx and wood chip, garbage and generates gas.

▷ PREPARATION

Kuhn's fermentation tube, water, Yeast fungi, Mortar, pestle, strawberry calyx, wood chip.
At first, put Yeast fungi and water in Kuhn's fermentation tube.
Next, grind strawberry calyx and grind wood chip and put them in Kuhn's fermentation tube watch it for 2.3 minutes.

Strawberry calyx	No gas was generated.
wood chip	A little gas was generated.

From this experiment, we know Biomass generation's merit and demerit.

merit: Even if burning wood biomass exhausts CO_2 , the world's Concentration does not change.

demerit: If costs a lot of money to build an electric plant, we don't know whether to pay the cost of construction.

From this Result, in the future we must make sustainable energy efficiently.

We may use efficient resources. Because we can combine using garbage to make electricity and biomass electricity. For example, ① Equipment that convert waste into bioethanol attached to equipment for biomass ② we will make a machine that mixes the two functions ③ we think it will make a good electric plant. ④ This because the first step for energy power generation.