

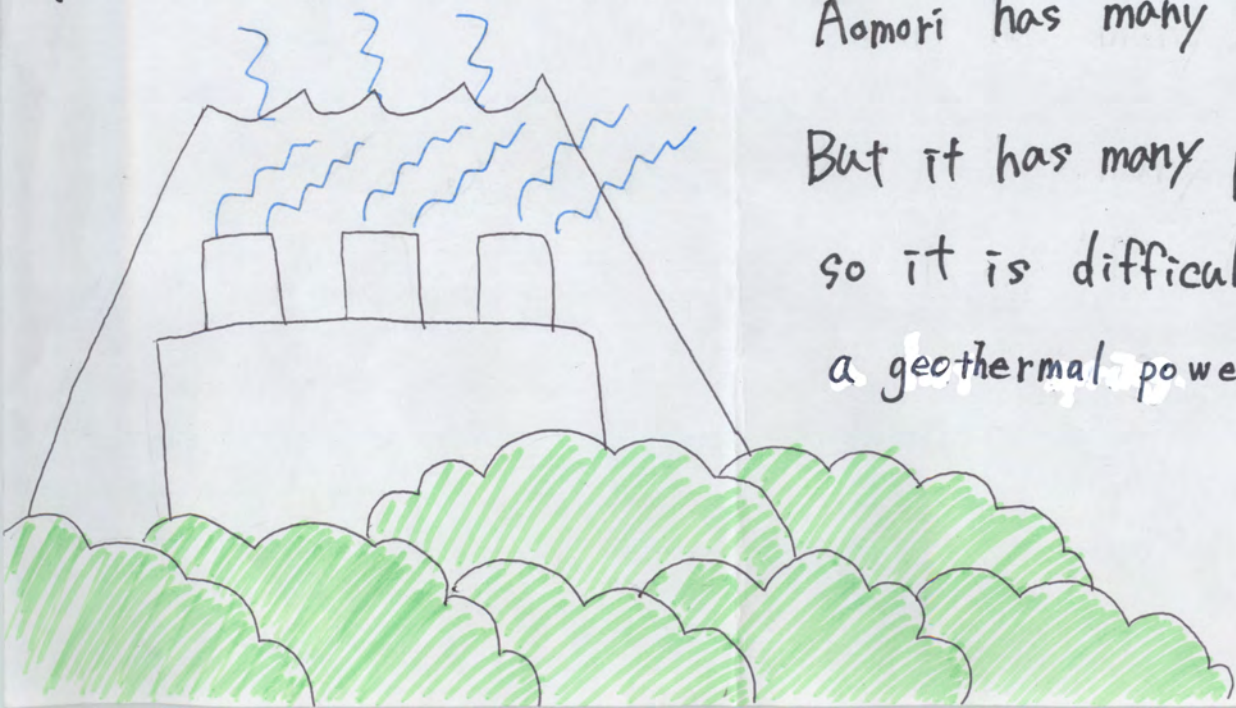
① What is geothermal power generation?

It uses heat under ground to make electncty.

It isn't out the emission doesn't emit green house gases.

It's Renewable Energy.

There are many geothermal power plants in Kyushu in Japan.



② Geothermal Power in Aomori

Aomori has many hot springs.

But it has many problems so it is difficult to make a geothermal power plant.



Geothermal power's mechanism and challenge

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# PURPOSE

In the present ago, global warming is progress and we must change our lifestyles. We think that we studied the methods of electricity generation using renewable energy. We investigated power generation utilizing heat in the ground which is expected to spread in recent years.

# HYPOTHESIS

Geothermal power puts out less green house gas and global warming is progressing now, it is one of the most necessary power generation methods. However, we have not heard the word geothermal power in Aomori prefecture where live. In addition, Aomori prefecture has a large forest area, so it is very good for generating electricity using geothermal power.

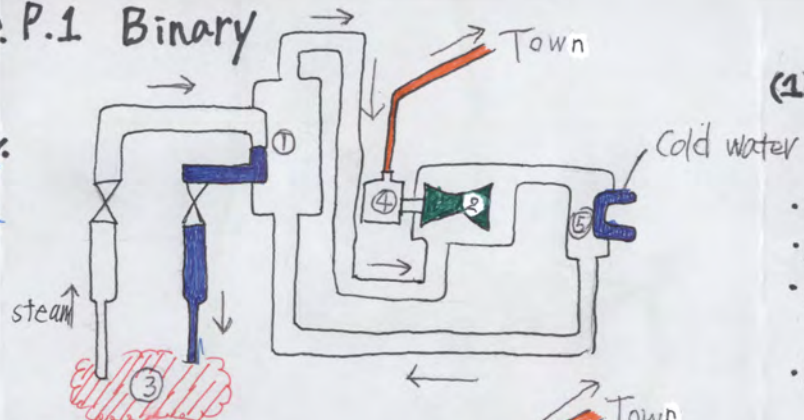
# METHOD

- (1) First we examined how to generate electricity with geothermal power.
- (2) We examined the number of geothermal power stations in Aomori Prefecture.
- (3) We examined the merit and disadvantage of geothermal power generation.
- (4) We investigated the reason why there is no geothermal power station in Aomori Prefecture.

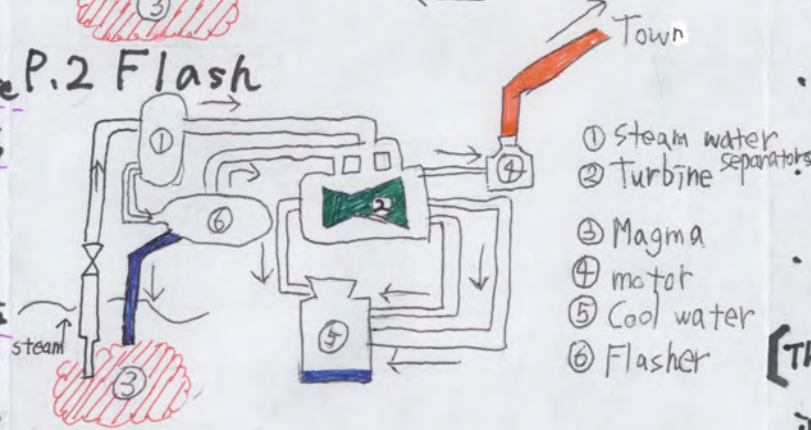
# RESEARCH

How to generate electricity

## P.1 Binary



## P.2 Flash



- ① Steam water separator
- ② Turbine
- ③ Magma
- ④ motor
- ⑤ Cool water
- ⑥ Flasher

## Merit

- (1) No pollution
- (2) Renewable Energy
- (3) Doesn't lose the resources.
- (4) The Energy was made only in Japan.

## Demerit

- (1) Small earthquakes sometimes happen.
- (2) Onsen are reduce.

Why the geothermal power plant cannot be built in Aomori

(1) Aomori has many Natural Park

The Natural Park in Aomori.

- Tsugaru National Park
- Asanohumagun Prefectural Natural Park
- Akushikeiryu Armonno toki prefectural Natural Park
- Iwaki kogen prefectural Natural Park
- Kuroishi Onsengun prefectural Natural Park
- Sanriku Fukko National Park
- Shimokita Hanto National Park

[The Geothermal power plant may be built in Aomori with help of JOGMEC]

JOGMEC ...  
Japan Oil, Gas and Metals National Corporation

Main construction site

- Dake area in Mt. Iwaki (Hirosaki)
- Shimoburo area (Kazamaura)
- North west Hakoda area (Hirosaki)
- West Hakoda Jogagura area (Aomori)
- Mt. Hiuch area (Mutsu)