

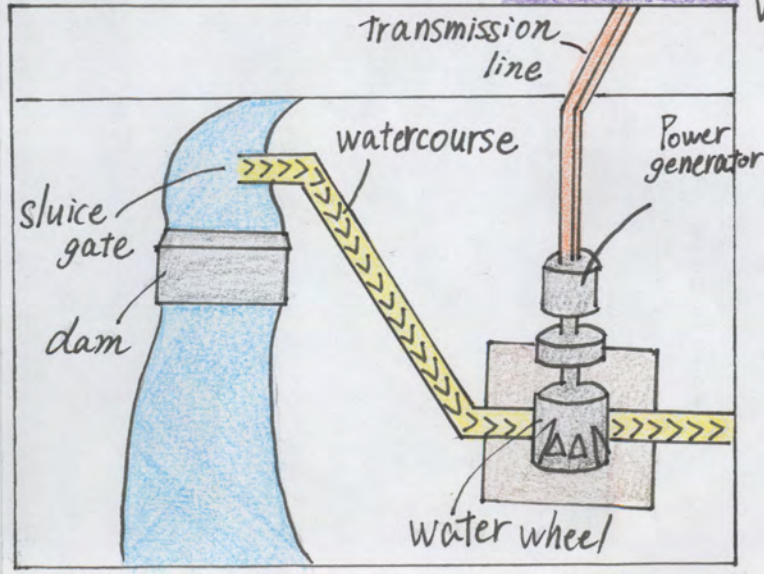
Q What is hydroelectric power generation?

A It generates electricity by turning impeller by a water power.

Q What is small hydroelectric generation?

A We call small scale generate installation that is under 10000 kw "small hydroelectric generation".

Structure of the hydroelectric generation.



Famous hydroelectric power stations of the whole country

- Okutataragi power stations
- Okukiyotsu power stations
- Okumino power stations

Hydroelectric power stations of Aomori

- Towada power stations
- Asaseishikawa power stations
- Oikedaini power stations

17 places in total

World hydroelectric power stations

- Sankyo power stations
- Itaipu power stations
- Keirakuto power stations
- Guripower station

Development of the hydroelectric power generation

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Purpose

Where and how we should make electricity.

Hypothesis

Look into the present situation and think about new power plant.

Method

- ① The present situation in Japan.
- ② Merits and demerits.
- ③ We thought how to make a power plant.

Consideration

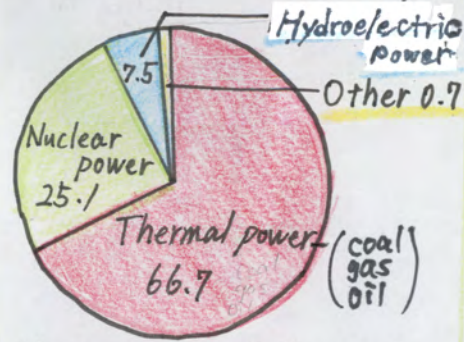
- ① Japan doesn't develop hydropower plants and those are many undeveloped Japan is putting effort small hydropower plants.
- ② In the long run, there is large merit but many costs to develop because of the demerit Japan hardly develops hydropower plants.
- ③ One of the power plants in the sea power plant on the boat is developing at the Kobe postgraduate course.

Conclusion

We thought new ways to make power plants but there are many problems so we think of counter measures.

Result

① Current status of power generation in Japan.



Nationwide: 727 points
 Undeveloped
 Under construction: 2772 points
 Aomori: 22 points

② Merits and Demerits

Merits

- Carbon dioxide, waste are little.
- ↳ Clean and renewable energy.
- Don't need fuel.
- ↳ Do not depend on the import "fuel purely domestic energy".
- Generation is possible for along time.
- Can generate electricity for security.
- Generation costs low.
- ↳ Are suitable for cost of Japan.
- Stopping and restarting are possible in a short time.

Demerits

- Public works are necessary.
- Initial investment is big.
- ↳ Collection time for investment is long.
- Locations are limited.
- ↳ There are many places that have been developed in the suitable place.
- Environment, an ecological crisis became bad.
- ↳ Negotiations are difficult.

③ We thought how to make an electric method.

* Make hydroelectricity using the sea.

Merits

- Can make a lot of hydroelectricity

* Make a hydroelectric power station on an uninhabited is land.

Merits

- Does not influence inhabitants

Demerits

- Big scale environment, an ecological crisis became bad.

Demerits

- Management is great
- It takes time and distance before it can send energy.