

Biomass

What is the biomass

The biomass refers to the biological resources to be used as an energy source. Make the power generation by using the biomass resources. The power generation system of biomass power generation, mechanism and thermal power generation will be the same. So, it serves as a fuel is required. Make the power generation by burning biofuels, such as bio-gas and bio-ethanol addition to the eco-fuel. In the same way as ordinary fuel, biomass resources, discharge the carbon dioxide is combusted. But, since the biomass that is grown for future use to absorb carbon dioxide, it becomes subtract zero. Therefore, in the biomass power generation, it is treated as if carbon dioxide is not discharged.

The fuel used in biomass

There are different types, such as bio-fuel and eco fuel fuel used in biomass power generation. Type of fuel these have become wide.

Example of eco fuel

- The (waste material coming out when you lumber trees and cut down) wood waste
- And waste emitted in making and rice husk and rice straw, agricultural
- Construction waste that comes when you dismantle the building

Example of bio-fuel

- Bio-ethanol made from corn and sugar cane and
- Biogas made from, such as garbage and manure (such as methane)

The move to practical use

It accounts for 1% of the total power generation power plant is currently performing the biomass power generation on a small scale. Although it is a slow but power output has been increasing little by little. In addition, various paper companies seem to use as fuel for biomass power generation thinned wood is not used in the paper, is expected to take the spread of biomass power generation. We will as an example, we established a new power plant to cover in the biomass fuel all fuel for the first time, starting operation in the spring of '15 the factory of Nippon Paper Industries in Kumamoto Prefecture.

Advantages and disadvantages of biomass power generation

Carbon dioxide emissions is less biomass power generation, it does not use too much natural resources. It has begun to spread little by little in Japan, but the problem also still seem to be many. Now we are going to look at the advantages and disadvantages.

Benefits of biomass power generation

- Fuel that can be used by a wide variety

Disadvantage of biomass power generation

- Fuel costs may apply and not necessarily a buy in the same price always the fuel's
- If you have fuel and food, there is a risk that the price of food is soaring

Other

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- [EIT ネット - バイオマス](#)
- [新エネルギー財団 - バイオマス発電 熱利用](#)
- 朝日新聞 - 2013年8月27日朝刊「製紙からバイオ発電へ」