

BIOFUEL AS ALTERNATIVE SOURCE FOR FOSSIL FUEL USING ALGAE

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ABSTRACT

Fossil fuels are the source of energy that formed from the accumulated remains of living organisms that were buried millions of years ago. Pressure, heat and time allow the organic matter to transform into one of three major types of fossil fuels which are coal, oil and natural gas. At present Fossil fuel is an important factor in this world. It is expected to be exhausted within 200 years. Pollution is probably the primary disadvantage of fossil fuels. Burning of fossil fuels can cause greenhouse effect, which is harmful to the environment, it releases toxic gases like carbon monoxide, nitrogen oxide. so now we are in need of an alternative source like solar energy, wind energy, hydroelectric energy and biofuel energy. Biofuel will be a good source for energy in future generation. Algae can be converted into various types of fuels, depending on the technique and the part of the cells used. The lipid, or oily part of the algae biomass can be extracted and converted into biodiesel through a process similar to that used for any other vegetable oil, or converted in a refinery into "drop-in" replacements for petroleum-based fuels. **Algae fuel, algal biofuel, or algal oil** is alternative to liquid fossil fuels that uses algae as its source of energy-rich oils. Also, algae fuels are an alternative to common known biofuel sources, such as corn and sugarcane. On the other hand, Solazyme, Sapphire energy, and Algenol, among others have begun commercial sale of algal biofuel.

KEYWORDS Algae, algal oil, biofuel, fossil fuel, carbon monoxide, drop in process, etc...