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BIOFUEL AS AN ALTERNATIVE ENERGY SOURCE

A. Nechypurenko , student, SSU, ET-31

S. Zolotova, EL Advisor

Today there is a problem of effective and efficient use of energy. Back in 1912, Rudolf Diesel expressed his opinion: "The use of vegetable oil as fuel today is insignificant, but in the future it will become as important source of motor fuel, as it is now refined petroleum products and coal." Today on this thesis scientists have formed the basis of modern energy sectors related to the use of alternative energy sources.

Biofuel is a renewable organic material that is processed at a certain energy sources, heat or electricity. There are several generations of biofuels, depending on the type of material:

- The first generation crops;
- The second generation: the remains of cultivated plants, wood processing industry;
- The third generation raw aquaculture, particularly biomass of microalgae (Chlorella, Spirulina and Haematococcus).

Biofuel has several advantages in comparison with mineral energy. The main ones are:

raw materials used for the manufacture of biofuels are completely renewable and waste products are unusable in the future;

production and use of biofuels is more cost-effective;

energy resources are available in most parts of the world, which can then reduce the gap between the levels of countries' development;

introduction of biofuels is environmentally friendly;

There are several disadvantages of using biofuels, such as a large area of cultivated land, low efficiency and other raw materials.

Despite the drawbacks, alternative energy industry is a priority sector which will have to be a global energy industry.