

# A Report on Biomedical Fuel Systems

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## Brief Report

Algae fuel, protocist biofuel, or protocist oil is another to liquid fossil fuels that uses protocist as its supply of energy-rich oils. Also, protocist fuels are another to unremarkably legendary biofuel sources, like corn and sugarcane. Once made of algae (macro algae) it is often called algae fuel or algae oil. Several corporations and government agencies are funding efforts to cut back capital and in operation prices and create protocist fuel production commercially viable. Like fuel, protocist fuel releases greenhouse emission once burnt, however in contrast to fuel, protocist fuel and alternative biofuels solely unharness greenhouse emission recently far away from the atmosphere via chemical process because the protocist or plant grew. The energy crisis and therefore the world food crisis have lit interest in alga culture (farming algae) for creating biodiesel and alternative biofuels victimisation land unsuitable for agriculture. Among protocist fuels' enticing characteristics are that they will be fully grown with smallest impact on H<sub>2</sub>O resources, are often created victimisation saline and sewer water, have a high flash purpose, and are perishable and comparatively harmless to the surroundings if spilled. protocist value additional per unit mass than alternative second-generation biofuel crops thanks to high capital and in operation prices, however are claimed to yield between ten and a hundred times additional fuel per unit space.

The US Department of Energy estimates that if protocist fuel replaced all the crude oil fuel within the US, it'd need fifteen,000 sq. miles (39,000 km<sup>2</sup>), that is just zero. 42% of the US map, or concerning half the acreage of Maine. This can be but space of corn harvested within the US in 2000. The head of the protocist Biomass Organization expressed in 2010 that protocist fuel may reach value parity with oil in 2018 if granted production tax credits. However, in 2013, Exxon Mobil Chairman and chief executive officer Rex Tillerson aforementioned that once committing to pay up to \$600 million over ten years on development in an exceedingly venture with J. Craig Venter's artificial genetics in 2009, Exxon force back once four years (and \$100 million) once it complete that protocist fuel is "probably further" than twenty five years faraway from business viability. In 2017, artificial genetics and ExxonMobil reportable a breakthrough within the joint analysis into advanced biofuels [1-5].

The breakthrough was that they managed to double super molecule content (from two hundredth in its natural kind to 40-55 percent) in an exceedingly genetically built strain of *Nannochloropsis Guadiana*. On the opposite hand, Solazyme, Sapphire Energy, and Algernon, among others have begun business sale of protocist biofuel in 2012 and 2013, and 2015, severally. By 2017, most efforts had been abandoned or modified to alternative applications, with solely some remaining. Protocist are often reborn into varied forms of fuels, betting on the technique and therefore a part of the cells used. The lipid, or oily a part of the protocist biomass are often extracted and reborn into biodiesel through a method kind of like that used for the other oil, or reborn in an exceedingly plant into "drop-in" replacements for petroleum-based fuels. Instead or following super molecule extraction, the macromolecule content of protocist are often hard into bioethanol or butyl alcohol fuel.

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