

PROSPECTIVE OF SELECTED GREEN ALGAE PERTAIN TO BIOFUEL PRODUCTION

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Abstract: Fossil fuels are the main source of energy for transportation and industrialization. Growing population creates a huge demand of fossil fuels which become cause of exhaustion in near future. Burning of fossil fuels is also cause of climate change, global warming, pollution and various health issues in living organism, so fossil fuels become a topic of concerns for scientist and environmentalist. Petroleum based fuels can be substituted by the biofuels, which can be obtained by the trans-esterification algal oil. Algae are the most efficient producer of oil owing to its higher proficiency of CO₂ fixation, cost-effectiveness and insignificant cultivation land. This study was done to know the potential and physicochemical properties of different algal species found in local water bodies.

Keywords: Algal oil, Chemical extraction, Biodiesel, Biofuel, Transesterification, Renewable energy

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