

Petroleum Engineering, Oil and Gas

December 06 -07, 2018 | Dubai, UAE

Microalgae to energy

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Microalgae, an autotrophic microorganism with rich nutrition and high photosynthetic utilization degree, which are widely living in the sea and land. Microalgae can be converted into bio energy such as biogas, biodiesel and bio oil. As a result, high lipid content, less cultivated land use and short life time circle are thought to be the typical advantages of microalgae that it can be considered as a potential substitute of fossil fuel. This thesis presents in review on the different

cultivation methods and energy conversion techniques of microalgae. Through comparison with other biomass feed stocks, the advantages and disadvantages of microalgae are detailed. The extraction of lips from microalgae to make biofuel through trans esterification, and the conversion of microalgae to bio oil through pyrolysis are carefully enumerated.

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