

Special Research Project Title	The Possibility of Creating Biofuels from Algae Oil Production
Credits	6
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### Abstract

The present, fuels derived from crude oil took a pivotal role in the lives of people and the ever-increasing demand for more. But the crisis in world oil prices tend to rise as well as the status of oil as the energy used to run. The cause of the environmental impact, many countries around the world develop new power plants and one of them is “Energy from Algae”. The energy that is environmentally friendly. The “Algae” is probably one of the biofuels that can help humanity overcome the energy crisis in the future.

In a brief summary of that analysis. To the possibility of producing biofuel from algae that are found in commercial fields of research and development in this regard. Still in the beginning stages. It still takes time to discover how to produce and appropriate technology, selected species of algae. The rate of production per unit as possible, area of cultivation, staff development with a special expertise in the industry. As part of that market, the most important comment was that. In the beginning, there is no problem. I have a request to go to trial in a number of activities but over time, and in the production of the commercial. I need to release in order to have a greater number of consumers devoted to the production system in the industry for the sake of the oil used in the production of algae fuel is considered to be a highly cost effective. Besides, it can reduce fuel imports from some countries. Also makes farmers the cultivation of algae. Plants can have a choice to generate income for themselves and their families as well. Will increase the gross national product or GDP to rise stability and economic power to come together and the last of the barriers and problems of the industry, production of biofuel from algae. While this is an appropriate technology for production and in the beginning of research and development. The production cost

per unit is also very high unable to compete with other products from renewable plant now. But in the future if the development of a more diverse product line and yields a high value product and can be produced in a number of industry, it would be worthwhile to invest in commercial. They now have to invest quite a bit of attention still cannot motivate or motivation many people do not. I would take the time to cultivate this type of industry is making progress. It can be important to the future of renewable energy is one.

After we have done the analysis of the financial possibility of this project, we found that with the initial investment of 26,040,000 Baht, the project's IRR is equal to 5.89%, which is higher than its WACC at 0.64% with NPV of 1,114,454 Baht and payback within 10.23 year (or about 10 year and 2 month). Hence, this project is worth to invest with high potential for success.

Keywords : Manufacture Industry / Biofuels / Algae Oil