

ABSTRACT

**FEASIBILITY STUDY
FOR DEVELOPMENT AN INTEGRATED BIOETHANOL
AGROINDUSTRY WITH CAPACITY 150 KILO LITER PER DAY USING
CASSAVA AS FEEDSTOCK IN KABUPATEN OGAN KOMERING ULU
TIMUR PROPINSI SUMATERA SELATAN**

Oleh

IGNATIUS EKO HARWINANTO

The demand and increase of world fuel price has led to the need of bio-fuel substitution, for example with bio-ethanol. Based on “the road map of bio-fuel utilization“ until year of 2025, Indonesia need bio-ethanol of 6,28 million kilo liter. This value can’t be fulfilled only from the existing plant. The purpose of this research was to know feasibility of development integrated bio-ethanol agro-industry with capacity of 150 kilo liter per day using cassava as feedstock in Kabupaten Ogan Komering Ulu Timur Propinsi Sumatera Selatan. The method used in this research was survey and literature study. The data got from this research were grouped and analyzed based on feasibility study aspects consisted of market and marketing, law, technology and raw material, management and organizational and financial and economy aspect.

The result of this research showed that the development of integrated bio-ethanol agro-industry with capacity of 150 kilo liter per day in Kabupaten Ogan Komering Ulu Timur Propinsi Sumatera Selatan was feasible. The market and marketing aspect was highly potential and supported by Indonesia’s government

about availability of renewable energy. The law aspect showed that the originality of all documents needed for integrated agro-industry were right. The technology and raw material aspect were fit with the efficiency of technology to produce bio-ethanol and the plantation for preparing raw material to guarantee raw material supply for production processing. Management and organizational aspect can be well arranged due to labour availability in Kabupaten Ogan Komering Ulu Timur and financial aspect showed that this project was feasible to develop. The feasibility values for this project were as following NPV=Rp.28.002.683.149,24, IRR=14,61%, net B/C=1,11 and PR =1,22.

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