

OMJAI UTHAIWATTANANON : A QUANTITATIVE ECONOMIC ANALYSIS  
OF PHOSGENE UTILIZATION IN CHEMICAL INDUSTRY. THESIS ADVISOR :  
ASST. PROF. SUTHAS RATANAKUAKANGWAN , 133 pp

This is the research which studied about the national economic effect from local phosgene production project . The capacity of phosgene plant was estimated from the minimum consumption of it in 3 industries; insecticide ,plastic and polyurethane. The consequence results have been evaluated in the following subjects.

The first is value added within the related industries. It was highly significant in the stage of manufacturing phosgene from natural resource. For money trade balance , the phosgene import substitution will reduce the national expenditure about 9,122 million baht in 10 years. As it was the machine intensive plant, there were about 150-200 employees. In the related industries ,the project caused more flexibility on price and availability of source of raw material , especially for the secondary phase industry. In term of investment index ,the project was satisfied with 21% IRR and 63.03 million baht for NPV. The last subject is the environmental effect which can be controlled by the appropriate manufacturing technology.