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Greening perspective: A study of Kalasin rice distribution Centre for central and southern regions of Thailand

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Abstract

Kalasin province is located in the center of the Northeast. Rice is an important economic crop of Thailand. Owing to global warming, emissions from energy usage and costly but unbeneficial packaging, an effort to connect the green rice supply chain started from Kalasin to downstream is a way in supporting agricultural sector and preserving environment. This research studied the suitability of rice distribution channel with low greenhouse gas emissions. A case study of rice distribution was done in comparison to the direct delivery from each of three neighboring provinces to ICD Lat Krabang. When rice distribution center is located at Kalasin, greenhouse gas emissions was reduced by 17.89% per month, equivalent to 10,337,868.6 kgCO_2e per year. Road transport using diesel and gasohol, routes determination towards minimum total cost, delivery scheduling towards emissions reduction, and applications of IT are the driving forces and image development for the province to compete.

Keywords: Rice, Kalasin, Green logistics, Distribution Centre