

Independent Study Title	Green Logistic and Supply Chain Management for Can Packaging Industry
Independent Study Credits	6
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Abstract

The objectives of this independent study are to evaluate and improve green logistics and supply chain management for can package industry. This scope of the study is a Gate to Gate which refers to the processes of production from the inputs and outputs information without taking into account the upstream, downstream and disposal. The evaluation of green logistics and supply chain for can package consists of Green Procurement, Green Production, Green Packaging, Green Transportation & Distribution, Reverse Logistics. The transportation route network is found for logistics improvement. Then, the mathematical model is constructed to find the optimal transportation network and volume of aluminum sheet and the cans in order to minimize CO₂ emissions. The developed model is applied and it is found that CO₂ emissions can be decreased by 3,789 CO₂ kg per month or 18.32% per month and costs can be decreased by 717,765 baht per month or 1.87 % per month.

Keywords: Can / Green Logistic and Supply Chain Management / Assessment of Green Logistic and Supply Chain Management /Mathematical models