

Narongsak Kittisarn 2006: Cost of Durable Packaging Waste Management.

Master of Economics, Major Field: Economics, Department of Economics.

Thesis Advisor: Associate Professor Somskaow Bejranonda, Ph.D. 105 pages.

ISBN 974-16-1770-4

The objective of this research was to study cost of durable packaging waste, U.H.T. carton, by using Pearce – Turner model and Department of Pollution Control (DPC) model. The primary data were compiled by interviewing and experimenting, while secondary data were collected from organizations related to waste management.

The results revealed that cost of durable packaging waste by Pearce – Turner model was less than DPC model. For Pearce – Turner model, the cost of durable packaging waste management regarding to the marginal disposal cost and marginal landfill user cost was 455 Baht per ton, while the cost regarding to the marginal disposal cost, marginal litter cost and marginal landfill user cost was 989 Baht per ton. For DPC model, the cost regarding to the direct cost only was lowest at 3,732.56 Baht per ton, while the cost regarding to the induced administrative cost to reflect packaging usage was highest at 5,865.35 Baht per ton. The cost regarding to the direct and administrative cost was 5,598.84 Baht per ton.

This research suggests that authorities should reduce durable waste by: 1) educating people about durable waste problem to make them concern and change their consumer behavior, and 2) plan the policy that is related to commodity price for inducing producers' decision to choose raw materials which are more environmental friendly, as packaging tax policy. Moreover, it should improve waste fee of local government to harmonize with unit of waste measure and element of waste. However, if someone wants to use Pearce – Turner model with bulk packaging waste but low weight, the model should regard both weight and volume. Contingent Valuation Method (CVM) is more suitable for estimation of disamenity cost from packaging waste.

Narongsak Kittisarn.  
Student's signature

Somskaow Bejranonda  
Thesis Advisor's signature

29 / 05 / 2006