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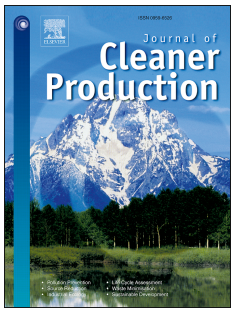

Sustainable newsvendor models under trade credit

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PII: S0959-6526(16)31580-3

DOI: 10.1016/j.jclepro.2016.09.228

Reference: JCLP 8188

To appear in: *Journal of Cleaner Production*

Received Date: 4 February 2016

Revised Date: 28 September 2016

Accepted Date: 30 September 2016

Please cite this article as: Tsao Y-C, Lee P-L, Chen C-H, Liao Z-W, Sustainable newsvendor models under trade credit, *Journal of Cleaner Production* (2016), doi: 10.1016/j.jclepro.2016.09.228.

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Sustainable Newsvendor Models under Trade Credit

ABSTRACT

In this paper, we present newsvendor models that take into account carbon emissions, trade credit, and product recycling, in which the credit period affects the risk of default and the demand is uncertain. The objective of these models is to determine the optimal ordering quantity, credit period, and recycle price in order to maximize total profits. Three carbon emission incentives are taken into account: (1) carbon tax (2) direct cap (3) carbon cap and trade. We also incorporate risk-management methods to limit risk of default, providing a solution for each type of carbon emission incentive. Numerical analysis is used to illustrate the implementation of solutions and the degree to which system parameters affect profits and decision making.

Keywords: *Sustainable, Carbon emission, Recycling, Trade credit, Newsvendor*

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