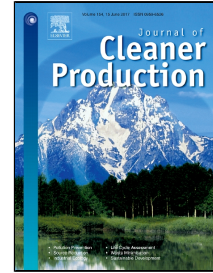


Accepted Manuscript

Manufacturers'/Remanufacturers' Inventory Control Strategies with Cap-and-trade Regulation



Tong Shu, Qianni Wu, Shou Chen, Shouyang Wang, Kin Keung Lai, Honglin Yang

PII: S0959-6526(17)30946-0
DOI: 10.1016/j.jclepro.2017.05.021
Reference: JCLP 9556
To appear in: *Journal of Cleaner Production*
Received Date: 16 September 2016
Revised Date: 16 April 2017
Accepted Date: 06 May 2017

Please cite this article as: Tong Shu, Qianni Wu, Shou Chen, Shouyang Wang, Kin Keung Lai, Honglin Yang, Manufacturers'/Remanufacturers' Inventory Control Strategies with Cap-and-trade Regulation, *Journal of Cleaner Production* (2017), doi: 10.1016/j.jclepro.2017.05.021

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

1. This article investigates the manufacturer's decisions on manufacturing and remanufacturing in the mechanism of cap-and-trade, and the manufacturer's optimal production decision is derived in the transaction with or without carbon quota through iteration algorithm and extremum method, including the batches and quantities of manufacturing and remanufacturing and the frequency of cyclic remanufacturing.
2. The imperfect remanufacturing actually adds the disposal cost of redundant waste.
3. Different means of transportation result in varying transportation **cost** and carbon emissions.
4. Remanufacturing is closely connected with carbon emissions, leading to the consideration of both environmental and economic benefits and shedding some light on the management decisions for manufacturers and governors.

Download English Version:

<https://daneshyari.com/en/article/5480916>

Download Persian Version:

<https://daneshyari.com/article/5480916>

[Daneshyari.com](https://daneshyari.com)