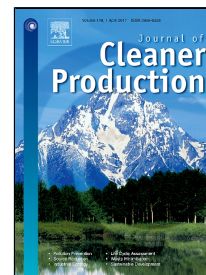


# Accepted Manuscript

Philippine resource efficiency in Asian context: status, trends and driving forces of  
Philippine material flows from 1980-2008

Anthony S.F. Chiu, Liang Dong, Yong Geng, Corazon Rapera, Emee Tan



PII: S0959-6526(17)30611-X  
DOI: 10.1016/j.jclepro.2017.03.158  
Reference: JCLP 9285  
To appear in: *Journal of Cleaner Production*  
  
Received Date: 20 April 2016  
Revised Date: 13 February 2017  
Accepted Date: 23 March 2017

Please cite this article as: Anthony S.F. Chiu, Liang Dong, Yong Geng, Corazon Rapera, Emee Tan, Philippine resource efficiency in Asian context: status, trends and driving forces of Philippine material flows from 1980-2008, *Journal of Cleaner Production* (2017), doi: 10.1016/j.jclepro.2017.03.158

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.

# Philippine resource efficiency in Asian context: status, trends and driving forces of Philippine material flows from 1980-2008

Anthony S.F. CHIU <sup>1,\*</sup> Liang DONG <sup>2,3,\*</sup> Yong GENG <sup>4</sup> Corazon RAPERA <sup>5</sup>  
Emee TAN <sup>6</sup>

<sup>1</sup> Center for Engineering & Sustainable Development Research (CESDR), De La Salle University, Manila, Philippines

<sup>2</sup> Institute of Environmental Sciences (CML), Leiden University, Leiden, The Netherlands

<sup>3</sup> Center for Social and Environmental Systems Research, National Institute for Environmental Studies (NIES), Onogawa 16-2, Tsukuba-City, Ibaraki 305-8506, Japan

<sup>4</sup> School of Environmental Science and Engineering, Shanghai Jiao Tong University, Shanghai, 200240, China

<sup>5</sup> Department of Agricultural and Applied Economics, University of the Philippines, Los Banos, Philippines

<sup>6</sup> Department of Biology, De La Salle University, Manila, Philippines

\*Corresponding to: [dong0926@163.com](mailto:dong0926@163.com) (Dr. Liang Dong). Tel.: +31 (071) 527 5608; Fax: +31 (071) 527 5608. CML, Leiden University, Leiden, The Netherlands;

[anthony.chiu@dlsu.edu.ph](mailto:anthony.chiu@dlsu.edu.ph) (Prof. Anthony). De La Salle University, Manila, Philippines.

## Abstract

Resource efficiency and sustainable resource management is critical to transitional economies to forward their pathway to sustainable development. To date, material flows analysis (MFA) and its database has become mature tools to diagnose the national resource utilization and efficiency, but still, few attentions and systematical analysis have been done for developing countries. With this circumstance, this paper conducted an innovative try on the in-depth MFA research on Philippines and its comparison in the Asian context, as an added value to current global MFA studies. Firstly, Philippine material flows from 1980 to 2008 and designed indicators

Download English Version:

<https://daneshyari.com/en/article/5479621>

Download Persian Version:

<https://daneshyari.com/article/5479621>

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