Title: The SCOR Model Application for Performance Evaluation of Plastic recycles manufacturing: Case study of the plastic recycles manufacturing

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Year of Accomplishment: 2009  No. of Pages  114  pages

Keywords: Plastic Recycle Manufacturing Industry,
Supply Chain Operations Reference Model

Abstract

The objective of this research is to assess the supply chain efficiency and raw material procurement of Plastic Recycle Manufacturing Industry. Data collection is made from 2 plastic recycles manufacturers consisting of the sample manufacturers and its subsidiaries, 20 raw material suppliers, and 10 customers. The data is then analyzed to formulate a questionnaire based on the SCOR model in order to assess the efficiency of supply chain management of the Plastic Recycle Manufacturing Industry.

Findings from the research reveal that the manufacturers have lower efficiency in relative to the suppliers and customers, because raw material supplies normally come from a variety of suppliers without any commitment in quality. Moreover, the internal management of the manufacturers still lacks adequate quality control upon raw material receiving process, causing substantial defects in the production process, amounting to 14.07% of the total production volume. However, after additional improvements to the quality control of the receiving process, the defects have been considerably reduced to 6.62% of the total production volume.