

Phanomsak Wongsricha 2014: Clean Technology for the Tire Manufacturing.
Master of Engineering (Engineering Management), Major Field: Engineering
Management, Faculty of Engineering at Si Racha. Thesis Advisor: Professor Emeritus
Ampika Krairit, M.S. 69 pages.

The main objective of this research is to apply the concept of green productivity to the production of tire. The main focus is 3Rs principles (Reduce, Reuse, Recycle) principle. Reuse is the approach resulting from the Green Productivity can achieve electric consumption down from machine. Reuse and Recycle concerned with the waste in process which are plastic and compound rubber, respectively. The result revealed that the improvement can save the electrical use 11,462,601.6 kW / Yr and reduce Carbon dioxide emission 6.431 TonCO₂e per year. Applying WOA (Work observe activity) method could increase productivity up to 800 piece/ day and reduce cycle time from 29 to 20 sec. In addition, recycling Poly plastics waste can reduce expenditure 37,826,585.28 Baht per year.

Student's Signature

Thesis Advisor's Signature