

***Analysis of Energi Needs On Rubber Processing
RSS Quality (Ribbed Smoked Sheet): Case Study in PTPN XII Sumber Tengah
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ABSTRACT

Indonesia is an agricultural country that relies on the agricultural sector in terms of economy and development. Rubber is one of the commodity of plantation that has an important role on the country's economy. Indonesia is the second largest country after Thailand as the world main rubber producer. One of the processed rubber products is RSS (Ribbed Smoked Sheet) which is made from latex and processed with the addition of various chemicals and then smoked until it turns brown. Analysis of energy needs on the processing RSS quality (Ribbed Smoked Sheet) aims to calculate the value of energy used in each stage of the production process. The stages of rubber processing RSS quality (Ribbed Smoked Sheet) include tapping, receiving latex, freezing, milling, smoking, sorting, packaging and shipping. The purpose of this final report is to calculate the value of energy demand at each stage of the production process and to find out the value of the total energy needs on rubber processing RSS quality (Ribbed Smoked Sheet). Energy used on rubber processing RSS quality (Ribbed Smoked Sheet) includes human energy, fuel energy and electrical energy. The conclusion of this final report shows that human energy needs (E_m) 1.414,5 kJ/kg, fuel energy needs (E_b) 1.917.443,2 kJ/kg, and electrical energy needs (E_l) is 117.5 kJ / kg, with a total energy of rubber processing are 1.918.975,2 kJ/kg.

Key words: Energy, rubber, RSS (Ribbed Smoked Sheet)