ABSTRACT

Electrical energy is very influential in the development industry today, and is a requirement that can not be separated again in human life so that the need for a mechanism for maintenance of a power plant currently available.

This study aims to identify and assess the increased productivity of the machine pulverize with Overall Equipment Effectiveness method (OEE), age componen engine failure with the method of design modularity and cost efficiency through Total Productive Maintenance (TPM). The results of this study is the OEE value ie 47.9%, and the time of the failure of engine components are comprised of 10 types of components with the component failure time on average 12 to 24 months and the total expected cost of maintenance, replacement cost of engine components 33,3 milliar rupiah and repair cost of engine components 11,9 milliar rupiah.

Keywords: Overall Equipment Effectiveness, Modularity Design