ABSTRAK

Waste into environmental issues that need to be taken seriously as did by city of Bekasi through TPA Sumur Batu which processing garbage into electrical energy. The purpose of this study is to determine and analyze the productivity of waste into electrical energy and factors that may affect the low productivity, then investigate and analyze the root causes of these factors, then investigate and analyze the causes of the most dominant.

This research is mixed method, which is qualitative because the collection of data derived from interviews, observation and documentation, as well as quantitative data obtained in the form of numbers and analyzed using statistical tools such as Pareto diagram. The first step in this research is to analyze the productivity of TPA Sumur Batu in generating electricity and the factors that may affect the low productivity, then analyze the root causes of these factors with Cause-effect diagram and then analyze the causes of the most dominant use Pareto diagram.

The results showed that the productivity or the ratio of output and input TPA Sumur Batu in processing waste into electrical energy is 120 Kilowatt/1,200 m^3 of methane from potential 3751.6 Kilowatts/22 510 m3 projected. Through Cause-effect diagram known root cause of the lack of methane derived from 4M (Man, Machine, Material and Methods), the causes include employee negligence, machine leaks, age Landfill, no waste sorting between organic and non-organic and not close the trash with a black tarp . Through Pareto diagram is known that the most dominant cause is the negligence of an employee with a percentage of 40%.

Keywords: Pareto Diagram, Cause-effect diagram, Factor Productivity, Productivity.