

## ***ABSTRACT***

Trash is a biggest challenge currently facing almost the whole country in Indonesia, specially Bandung city. With increased the number of residents is directly proportional to the increasing number of pileup trash. The pileup trash of populations in Bandung city has projected up to 1.549 tons/day with the number of populations reached 2.748.732 persons and the number of trash production reach 1100 tons/day. During this waste management by means of hoarded.

One of alternative metode to manage this waste is incineration, with incineration process can decreased the volume of waste in large quantities with a relatively short time. The correct technology incineration can decreased contamination potential who inflicted the exhaust gases and solid material chemical residue. Incinerator is a tools who used for incineration process.

In this research doing combustion simulation municipal solid waste on bed incinerator model according to the waste data of Bandung city who variated to be some of the data for the comparison of the potential energy produced and how profile gases generated of combustion on the bed incinerator model. In this simulation research doing with five waste data where the biggest potential energy was reached 15.259 Mega watt and generated from some gas content where dangerous gas produced are CO (Carbon Monoxide) and in conversion to standart index air pollutants and included in the catagory "Very Unhealthy".

