

SOLID WASTE TREATMENT BY INCINERATION

Prepared by: Shun Siew Choo

ABSTRACT

Solid waste is any material that is thrown away or discarded as useless and generated. It is those materials, other than liquid or gasses, that are deemed by their owner to no longer possess value and are discarded. They are generated by almost every activity and the amount varies by source, geography and time. Disposal of solid waste is one of the most troublesome problems facing urbanized areas at this time.

One method to solve this problem is to process the solid waste by incineration. This process can reduce the total volume of municipal refuse by about 95 percent. Incineration is one of the most effective and commonly used chemical transformations to reduce the volume and weight of municipal solid waste by burning it in a properly designed furnace under suitable temperature and operating conditions. In the incineration process, the combustible portion of the solid waste is burned, producing a residue essentially free of putrescible organic material.

Comparison between the incineration and sanitary landfill is made to compare the advantages and disadvantages.