

ESTIMATING BIOGAS PRODUCTION IN MSW LAND DISPOSAL SITES

E. TAGARIS and C.P. HALVADAKIS

*Waste Management Laboratory, Department of Environmental Studies University of
the Aegean, Karadoni 17, 81100 Mytilene, Lesvos*

ABSTRACT

The model MGM is utilized to generate biogas production yield and rate in the entire landfill as well as its spatial distribution. The entire landfill is subdivided into sections. In each section, biogas production is calculated based on in-place waste mass and the model MICROGEN which gives the biogas production rate in a unit volume of land-filled waste based on its quality characteristics. The two models are used to estimate landfill biogas production which, in turn, is utilized to dimension biogas recovery system components.