

LANDFILL-GAS PRODUCTION AT THE TIRIGHINA LANDFILL

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ABSTRACT

The municipal solid waste (MSW) landfills are recognised as one of the major sources of emissions generated from human activities. In Romania, most of the solid wastes are disposed of by landfilling in low-lying areas located in and around the urban centres resulting in generation of large quantities of biogas known as landfill gas, containing a considerable proportion of methane. The landfill gas is one of the regenerative sources of energy. It may be collected and used to produce heat, or heat and electricity. The methane emissions from the landfill of Galați – Tirighina were estimated using the default methodology. The predicted generated landfill gas in 2035 may fuel a gas turbine based cogeneration plant to produce 2681 kWe and 7500 kWt.

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