



Solid Waste in Lagos: Aspects of Effects, and Recyclable Potentials

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Field surveys were undertaken in five (5) government-operated

landfills in Lagos. Areas of Badagry with marginal human

activities and at a theoretical distance of infinity from waste-

streams were also sampled as control. Sampling of the

transfer loading station (TLS) areas at Oshodi was done to

estimate contributions extraneous to municipal solid wastes

(MSW) activities. The geology of the sampled areas is

essentially that of the Oligocene to Pleistocene Coastal Plain

Sands except for those of Epe and Badagry which are Recent

Deposits. landfill related groundwater from some of the

boreholes are unfit for drinking given imbuement with

pollutants above prescribed limits. Based on juxtapositions

with various scholarly postulations & empirical models, the

electrical & economic indices from the landfill gas (LFG) were

attempted and standardized using series of devised equations.

A mean achievable electrical power of 121.69 MW was derived

at engine efficiency of 30% and methane recovery of 50% for

the Lagos area with a generation per capita (GPC) of 0.63 kg.

The yearly electrical energy was placed at 1,066,004.4 MWh with

a tariff revenue in excess of about US\$ 106.6 million/yr. 200

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