

THE COMPARATIVE ANALYSIS OF MUNICIPAL SOLID WASTE MANAGEMENT IN THE EIGHT CITIES OF UKRAINE

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Abstract

A simplified solid waste management system has existed for many years in Ukraine being. The system factually coming to MSW collection and their removal to landfills and dumps. This has resulted in accumulation of 223 million tons MSW on territory of more than 8.5 ha.

Signing on 27th June 2014 EU-Ukraine Association Agreement obliged Ukraine to approximate legislation to EU demands in the Field of Waste Management [1]. On 8th November 2017 National Waste Management Strategy has been accepted for this purpose binding until 2030 [2].

This paper makes a comparative study of Municipal Solid Waste (hereinafter referred to as MSW) Management in Ukraine. This paper represents the analysis of the waste composition from the eight cities from different regions of Ukraine. The comparative analysis takes into account dependence of the amount and waste composition on income and population level. The approaches of the World Bank basic report are used in this study [3]. The study reveals prospects for development of techniques on material and energy use of MSW potential in Ukraine.

Keywords: Municipal solid waste; Income level of population; Waste composition; Recovery potential of MSW.