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Household recyclables estimation for improving waste management in Ulaanbaatar city

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The aim of this paper is to estimate and analyze recyclable waste amount, determine distinctive features and recyclable waste flow of households for improving waste management system in Ulaanbaatar city. Recyclable waste amount to be sold, daily burnt waste, illegal waste and municipal waste flow were estimated based on the direct interview with the citizens and questionnaire surveys. The study was carried out based on two methods for collecting data, a questionnaire survey and interviews of residents, industrial sites and companies, and identification of waste amounts and types in 18 households. The questionnaire survey was conducted among 400 households. The findings of this study shows that although the total amount of households in *ger* (the traditional tent) area is six times larger than the waste generated by the households in apartment area, there was no any differences of monthly waste fees between *ger* and apartment households. Totally 2.63 tons of toxic waste produced every day and air emissions from backyard burning in *ger* households are released directly to the atmosphere without being treated. The maximum illegal waste amount (152 ton) occurs in winter season, due to the coal ash (122 ton) generated by the *ger* households. This has led to severe environmental pollution. The study suggests that the coal ash should be recycled and the waste amount to be transported between households and landfill sites could be reduced with 8.1%.

Biography

Gombojav Delgermaa has been awarded Bachelor of Management degree in Eco Tourism from the International Tourism Management Institute of Mongolia in 2002. From 2002 until 2008, she worked as a Research Assistant in the Department of Environment of the International Tourism Management Institute of Mongolia. From 2008 until 2011, she was an Expert of Environmental Protection Association of Mongolia. She received her Master's degree in Environmental Engineering from the University of Kitakyushu of Japan in 2016. Her research area is recycling management and municipal solid waste management.

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