

O 149. ZERO WASTE AND SUSTAINABLE DEVELOPMENT

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ABSTRACT: Zero Waste Project which was launched actual by the Environment and Urbanization Ministry of Turkish Republic in 2017. Prevention of wastefulness and more efficient use of resources have been targeted and in this context works has been carried out. A total of 1544 people have been trained in schools, public institutions and organized industrial zones and visited to public institutions / organizations, non-governmental organizations and associations within the scope of the project. Participation was provided for the activities of universities about zero waste in Konya Province. Competitions were organized to increase the awareness among children and teenagers. The registration of 2437 institutions and 40 municipalities were done to the Zero Waste Information System Implementation Module. 18,875 tons of paper and cardboard was recovered, 12,797 tons of plastic, 3850 tons of glass and 7 tons of metal waste were recycled. 1.989 tons of waste batteries were collected. 35,529 tons of non-hazardous waste was utilized

Disposal of wastes without utilizing within the recycling and recovering process causes serious loss of resources both as material and energy. There is an unavoidable increase in consumption while population and living standards in the world are increasing, and this situation increases the pressure on natural resources and disrupts the balance of the World so limited resources cannot meet the increasing needs. Considering this situation, the importance of efficient use of natural resources becomes even more apparent. For this reason, in recent years, zero waste application studies in all over the world are spreading in both the individual, institutional and municipal areas.

Keywords: Zero Waste, Sustainable Development

1. INTRODUCTION

Zero Waste Project was launched actual in 2017 by Ministry of Environment and Urbanization, which is the implementing agency of the legislation in order to protect the environment, is a common existence of all living things, in line with the principles of sustainable environment and sustainable development. In this context aimed to prevent waste, to make more efficient use of resources, to inhibit or to minimize waste formation by considering the causes of waste formation, to ensure separate collection and recovery of the waste in case of formation of waste.

2. METHOD

As part of the zero waste projects, works has been carried out for increase awareness and try to create more conscious individuals. In this direction target group has been reached with prepared information presentation and short films. Also in order to reach a wider group, Konya Provincial Directorate of Environment and Urbanization prepares activities such as public spots, theater and folklore shows, activity truck, award-winning competitions and award ceremonies.

In the studies completed until this time;

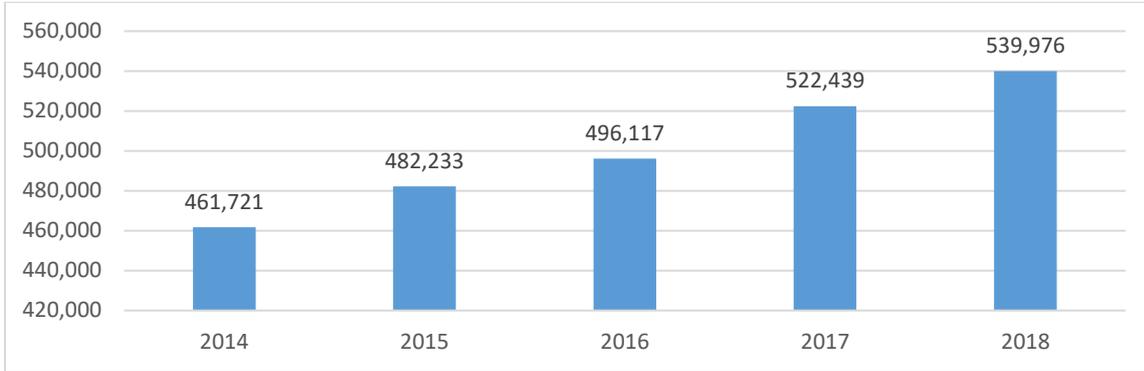
- A total of 1544 people have been trained in schools, public institutions and organized industrial zones.
- Participation was provided for the activities (panels, career days, symposiums) of universities about zero waste in Konya Province.
- Visits were made to public institutions / organizations, non-governmental organizations and associations, problems encountered in project implementation were consulted.
- Two different competitions were organized to increase the awareness of zero waste projects among children and young people, by Environment and Urbanization Ministry and Konya Provincial Directorate of Environment and Urbanization.

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- The registration of 2437 institutions and 40 municipalities were done to the Zero Waste Information System Implementation Module.

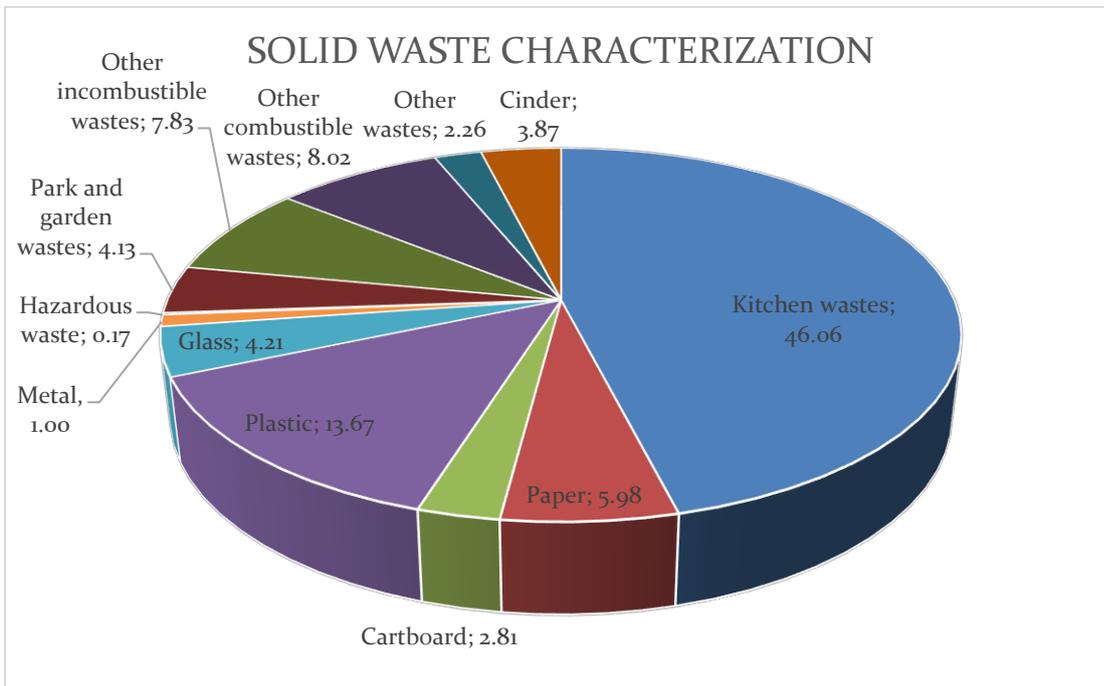
3. RESULTSTS

The amount of solid waste disposed by the Metropolitan Municipality in our city is shown in Graphic 1. In parallel with the increasing population and consumption, the amount of annual solid waste increased.



Graphic 1. Amount of solid wastes disposed according to years in Konya province (ton) (Konya Province Environmental Status Report data, 2018)

Solid waste characterization studies carried out by Konya Metropolitan Municipality in 2018 are given below. As seen in the graph, a large amount of recoverable waste found inside solid wastes.



Graphic 2. Waste composition of Konya province in 2018 (Konya Province Environmental Status Report data, 2018)

For this reason, the studies carried out within the scope of the zero waste projects will make contribution to the reduction of waste formation, separation in source and recovery.

4. CONCLUSION AND RECOMMENDATIONS

Province-wide within the context of project in 2018;

- The cutting of approximately 254,000 adult trees was prevented with recovering of 18.875 tons of paper-cardboard.
- The use of 91,000 lt of oil has been saved with recycling of 12.797 tons of plastic waste.
- 324 tons of raw materials were saved with 3.850 tons of glass waste.
- 9 tons of raw materials were saved with recycling of 7 tons of metal waste.
- 1.989 tons of waste batteries were collected under the project.
- Total of 35,529 tons of non-hazardous waste was utilized within the scope of the Zero Waste Project.

Furthermore; it is thought that there will be an increase in the number of licensed facilities in which the wastes are treated by ensuring the spread of the project.

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