UCLG-MEWA & CONNECTIVE CITIES

“FROM WASTE TO RESOURCE - PLANNING INTEGRATED WASTE MANAGEMENT SOLUTIONS FOR MUNICIPALITIES”

04-06 July 2017, Kocaeli
• 19 districts within the boundaries of our Metropolitan Municipality produces approximately 610 tonnes/day waste.

• Solid Waste Transfer Stations are being built in 4 different locations to facilitate transport of wastes to the Mechanized Sorting Facility, reduce the traffic in the city, make the transport process more economically feasible and develop an environmentalist approach by reducing fossil fuel use.
• The project stage for Unye Mechanized Waste Sorting Facility is completed and after the facility is commissioned, wastes will be transported to this facility, which has a capacity of 45 tonnes/h.

• With the commissioning of Unye Mechanized Waste Sorting Facility, all wastes of the province will be treated here, recycling materials will be sorted, and a minimum of 165 tonnes RDF (Refuse Derived Fuel) raw material will be sent to Unye Cement Plant on a daily basis.

• Unye Cement Company will increase its RDF use as an alternative to coal from 9% to 26% and less lignite and coking coal use will be reduced by 29,000 tonnes annually.

• The moisture content of RDF is reduced to 20% when dried and its calorific values is 4.456 kcal/kg.
The distribution of annual greenhouse gas emission by sectors is as follows: Solid waste treatment and disposal (3.4%), Fossil fuel extraction, refining and distribution (11.3%), Power plants (21.3%).

As well as reducing fossil fuel use as a renewable energy resource, RDF reduces emission values by $SO_2$ (62.6%), $HF$ (82.6%), $NO_x$ (32.9%), $CO_2$ (60.0%) compared to other fuels and reduce greenhouse gases added to the atmosphere.

Thus, it is an important resource to mitigate effects of global warming.

GREEN WASTES

Biodegradable wastes, which make up a considerable portion of urban wastes, are brought to our facility in small bathes without being mixed with domestic wastes and kept waited until they turn into compost. Once the fermentation process is completed with temperature monitoring, the resulting compost will be used as soil improver.

INDUSTRIAL WASTES

Within the scope of sorting industrial wastes at source, we collect textiles, carpentry, and furniture wastes from businesses.

Wastes collected separately in containers provided to businesses are taken to the Unye Cement Company to be used as RDF raw material.
Thank you for your attention..

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