

Integrated Waste Management

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Project 3: Integrated Waste Management

Waste Management Planning Activities

The works for the applicable IMM Waste Management Plan were completed in October 2021. This includes the projections planned for Istanbul by 2050 and scenarios compatible with both the C40 City and national targets, in line with other metropolises that deal with the issue of climate change across the world.

Within the scope of this plan, actions in line with the goal of making Istanbul a carbon-neutral city have been determined and investments have started to be made as per the relevant plan.

Preventive activities have been defined after calculating the impact of plant investments and the emissions of plants.

Household Waste Incineration and Energy Facility

The commissioning of a household waste incineration and energy generation facility, which has a daily waste processing capacity of 3 thousand tons and an installed power of 78 MW, commenced in March 2021.

With this facility, it is aimed to prevent 15% of the waste in Istanbul from being brought to landfills and to achieve 1.38 million tons of Greenhouse Gas Reduction.

Biomethanization Plant

Two Biomethanization Plants were established in Istanbul to process organic wastes and turn them into fertilizer and energy.

One of these facilities is the Kemerburgaz Biomethanization Plant, which will be put into operation on October 15, 2021, with a waste processing capacity of 150 tons/day and an installed power of 1.5 MW, and the other one is the Komurcuoda Biomethanization Plant with a daily waste processing capacity of 2,000 tons and an installed power of 18 MW.

LFG Plant

Electricity is produced from three LFG plants with a total installed power of 99 MW, from methane gas generated in storage areas on the European and Asian sides. A total of 4.4 million tons of CO2 emission reduction is achieved in these plants.

Composting Plant

Some of the household waste with high organic content brought to the plants is directed to our Kemerburgaz Recycling and Composting Plant to produce compost. In this plant, with a waste processing capacity of 500 tons per day, compost is obtained from organic wastes from marketplaces, parks, gardens, and kitchens. The compost obtained is used as a soil conditioner in the parks and gardens of Istanbul and in flower production.

Awareness Activities

Activities are organized to increase training and environmental awareness. Events and experiential learning areas have been created to educate citizens of all age groups about waste management (prevention, reduction, reuse, recycling, recovery, and upcycling)...

In this context, the costs of resources are supported mainly by EU-sourced funds.

Maker Space areas create and host various activities, such as waste-to-up-recycling activities. These events are organized wherever the public can be integrated and where the public can best benefit from them.

