

Waste management in Greece



Ghimbav, 14th May 2019

What does waste management mean?

Waste management is referred to:

- Collection
- Transportation
- Disposal or recycling and
- Monitoring

of waste.



Waste management earlier

Back in the 80's people in Greece didn't use to consume so much plastic and rubbish. They used to feed their animals with their food waste .



Waste's origin

Only 8% comes from our houses

74% Construction, Manufacturing
and Mining

Complicated issue...

WASTE MANAGEMENT

Creating a circular economy

In 2014 the EU produced
2.5 billion
tonnes of waste

Share of waste in the EU

1% Agriculture, forestry and fishing

8% Households

10% Manufacturing

30% Mining and quarrying

34% Construction

17% Others

Waste management in Europe

The EU promotes 3R (reduce-reuse-recycle):

- Prevention (non consuming)
- Re-use of products
- Recycling (including composting)
- Using waste to generate energy



So does Greece... although we have a long way to reach our goals.

Targets of EU

- Reuse and recycle household waste >55% until 2025
- Reduce landfilling <10% until 2035

Landfilling is almost non-existent in countries such as Belgium, Denmark, Sweden, Germany, Austria and Finland

Germany and Austria: top recycling countries

EU28	482	47%	25%
Denmark	777	48%	1%
Malta	647	8%	92%
Cyprus	640	19%	81%
Germany	626	66%	1%
Luxembourg	614	48%	17%
Ireland*	567	42%	27%
Austria	564	59%	3%
Netherlands	520	53%	1%
France	510	42%	22%
Finland	504	42%	3%
Greece	497	17%	82%
Italy	497	51%	28%
United Kingdom*	482	45%	28%
Portugal*	453	30%	49%
Slovenia**	449	58%	24%
Lithuania	444	50%	31%
Spain	443	30%	57%
Sweden	443	49%	1%
Belgium	420	54%	1%
Latvia	410	28%	72%
Bulgaria	404	32%	64%
Croatia	403	21%	78%
Hungary	379	35%	51%
Estonia	376	32%	12%
Slovakia	348	23%	66%
Czech Republic	339	34%	50%
Poland	307	44%	37%
Romania	261	15%	80%

Urban waste and recycling in every EU country

The richer a country is, the more urban waste it produces.

Landfilling remains popular in eastern and southern part of Europe.

Unfortunately, Greece is in the countries that recycle less with a high amount of landfill disposal.

Data from 2016	Municipal waste generated (kg/capita)	Share of recycling and composting	Share of land disposal
EU28	482	47%	25%
Denmark	777	48%	1%
Malta	647	8%	92%
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Germany	626	66%	1%
Luxembourg	614	48%	17%
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Denmark

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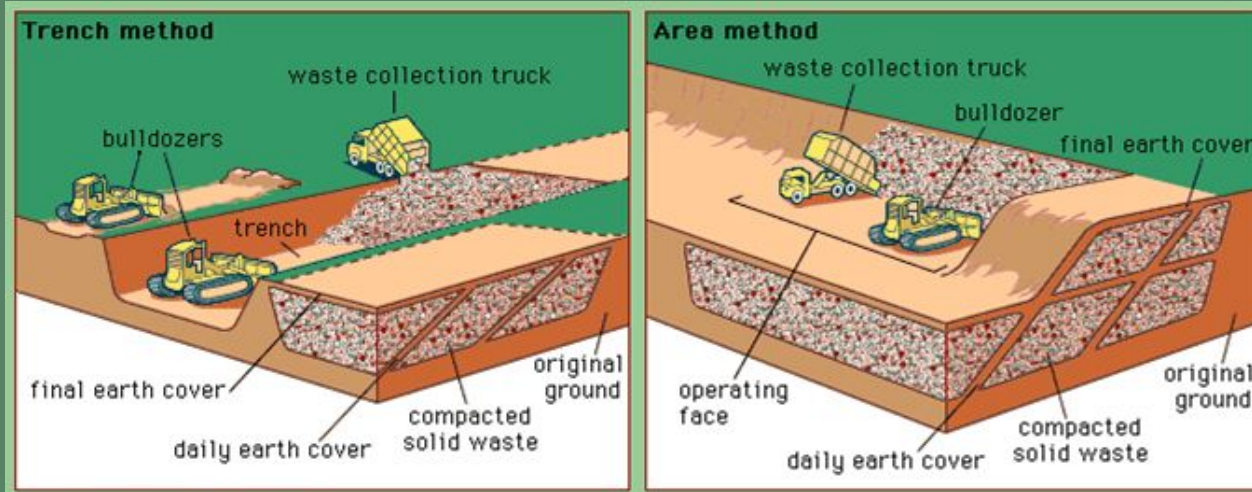
Recycling in Greece

More than 40 percent of the waste placed in blue dumpsters designated for recyclable materials is estimated to end up in the country's landfills, according to 2016 data seen by Kathimerini(greek newspaper).



Landfill

The landfill method is still the most widespread waste disposal method in many southeastern EU countries such as Greece.





Recycling is an efficient way to reduce waste especially urban waste

Landfill is a bad way to get rid of our waste. It is very burdening for the environment

How does tourism affect the amount of waste?

The amount of waste in Greece is significantly increased due to tourism during summer period.

Usually waste from restaurants and hotels is not recycled



Waste management factory in Chania



Waste collection in Chania

There are different cars for garbage collection



Recycling step by step

- Collection of waste from the blue bin
- Transportation to the recycle factory
- Emptying of the rubbish in the reception area
- Mechanical separation of materials
- Transformation of the rubbish in small cubes using pressure
- Sending of separated materials to Athens for recycling



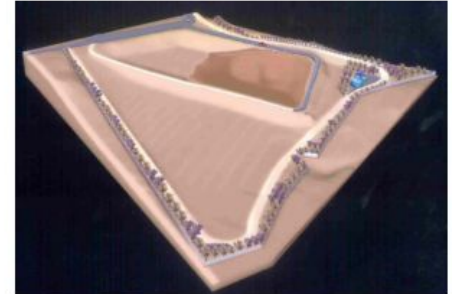
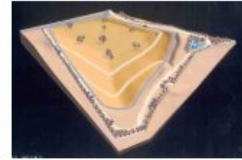
Composting step by step

- Collection of organic products
- Taking them for fast composting
- Leaving them for 4 weeks in the compost vat
- Removal of glass, plastic or other materials that could destroy our compost
- Spreading of the compost outside in a sunny place 6- 8 months
- Packaging in bags



Non recyclable waste management

Landfill of non recyclable waste after region preparation



Landscape restoration of landfill region



Thank you for your attention!