Bio-waste in the present crisis

-how do we cope with new obligation and turn them into possibilities



Dr. Krisztina Wegner

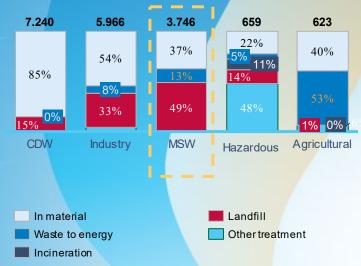
Waste management and sustainability expert

14.09.2022

Waste management in numbers

- Inhabitants: 9 797 561
- MSW/year: 3 746 000 t
- Bio-waste/Year: 1 013 000 t (27% of the MSW – as of National Waste Management Plan)
- Bio-waste separate collection: 236 000 t (24 kg/inhabitant/year)
- EU average bio-waste generated: 40 kg/inhabitant/year

Waste management in numbers 2.



- MSW:
 - 49% is landfilled,
 - 37% is treated,
 - 13% is energy recovery
 - 30% is separately collected (official data from 2018)
- EU rate 2025 for MSW recovery: 55%
- 2035 goal to decrease the landfilled amount to 10%

Identified challenges

Lack of data

There are examples for collection and treatment of No model for a systemic approach bio-waste but there is no obligation and no systemic legal approach Collection of garden waste – green waste – is general, Bio-waste is a mixed waste type but there is no differentiation in bio-waste collection and treatment. The present collection network is unable to cover bio-Lack of capacity waste. Treatment facilities cover 24% of the target collections. MSW collection is underfinanced. Bio-waste Lack of finances – challenges in treatment plants are under vindictive tax in case of financing

selling to the market

No reliable data of bio-waste generation, on

composition and on treatment options

Identified challenges

6. Lack of compost market and quality rules

There is no quality standard in use for compost and for fermentation materials No market rules for biowaste, products – except from the energy generated.

7. No clear market for energy generated

There are 70-75 different size of bio-gas or biomass facilities in the country but their regulation is unclear

8. Lack of home composting

Home composting is done in the countryside mostly, but it is not wide-spread. App. 135.000 tons are composted at homes.

9. Underachievement of the EU targets

MSW treatment is app 37% goal to 2025 is 55%, 2030 is 60% and 2035 is 65% - it is impossible to achieve without bio-waste

Success criteria for bio-waste system

Investment costs are identified, assured and accessible

Real treatment – marketable products and a real market for the products is created

Implementation of the bio-waste system is quick and efficient

 Quality material collection – well designed collection system Meet the EU targets
2024
2030

2035

Implementation differs in high density cities and in the countryside

Easy operations to assure high level of participation

 Low operation and maintenance costs for collection and treatment Long term planning including system thinking

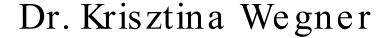
A unique solution Waste concession

- Concession for waste related activities has been contracted
 - Operation starts from 2023 July (DRS from 2024)
 - 35 years
 - For-profit
 - Responsibility to reach EU and Hungarian targets
- Waste streams: MSW including biowaste, EPR (packaging, WEEE, Accumulators, batteries, tyres, oils, textiles, wooden furniture) DRS
- Exclusive right to the activities: collection, organization, pre-treatment, trading
- Ownership of waste Concessor

A unique solution Waste concession

- Concessor is responsible
 - To create the collection and pre-treatment of biowaste (Scope of bio-waste under question)
 - Reach EU targets for separate collection, sorting, diverting from landfill and treatment
 - Owns the waste collected
 - Has the exclusive right to trade with waste
 - May subcontract collectors
 - Shall contract treatment facilities
- No plans are known at present about biowaste
- Energy recovery might be in focus

Thank You for your attention!



wegner.krisztina@gmail.com





