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1 Introduction on bio-waste management in Ukraine

<https://zakon.rada.gov.ua/laws/show/820-2017-%D1%80#Text>

*The dominant method of handling household waste remains its removal and burial in landfills and landfills. In 2016, only 5.8 percent of generated household waste was processed, including 2.71 percent (1.3 million cubic meters) - disposed of (incinerated), 3.09 percent (1.53 million cubic meters) - directed to other waste processing complexes and about 0.003 percent (2,000 cubic meters – composted).

*According to expert assessments, more than 99 percent of operating landfills do not meet European requirements (Council Directive No. 1999/31/EC dated April 26, 1999 "On waste disposal").

* <https://zakon.rada.gov.ua/laws/show/820-2017-%D1%80>

Strategy implementation indicators: *creation of waste composting facilities, unit: 2019-2023=150 units (municipal, while there is only one in the city of Lviv, but it is an initiative).

our assessment:

**** The state does not keep records of companies that produce by-products of animal origin, as the EU does. Our estimate in 2021 for ABPs (leftover gastrointestinal tract of cattle, bird droppings ABP 2 and 3 Category) – 1 million tons are composting - but, clarification (throw over, stir). Clarification --- Regulation (EC) No 1069/2009 and Regulation (EU) No 142/201 === no one properly does this control, that is, the compost comes out, but it will be evaluated differently. These companies work with us on the supply of equipment, debugging (adaptation) of technologies to achieve good economic performance. The issue of compliance with EU standards and the creation of CE certificates is our need and we want to show the way for others in Ukraine.

*** municipalities about 10 thousand tons.

***Today, the production of compost for business takes place without subsidies, our previous experience served this, but now it is necessary to produce according to EU requirements, and not only for economic interest (sustainable production).

2 National concept/strategy on bio-waste management

2.1 Legal framework

2.1.1. NEW 2024

*<https://zakon.rada.gov.ua/laws/show/2320-20#Text>

«About waste management» (it is not exactly a European law - **it needs to be finalized**)

2.1.2. Old - but they don't work very well (although there are the right words)

* <https://zakon.rada.gov.ua/laws/show/187/98-%D0%B2%D1%80#Text>

«About waste»

2.1.3. In Ukraine +++ also accepted:

*** https://zakon.rada.gov.ua/laws/show/984_029-08#n30

DIRECTIVE 2008/98/EC

*** <https://menr.gov.ua/news/31286.html>

Directive 1999/31/EC

*** https://zakon.rada.gov.ua/laws/show/994_965

Directive 2004/35/EC

2.2 Waste management programs and strategies

* <https://zakon.rada.gov.ua/laws/show/820-2017-%D1%80>

2017 - «On the approval of the National Waste Management Strategy in Ukraine until 2030»

* <https://zakon.rada.gov.ua/laws/show/117-2019-%D1%80#Text>

2019 - «On the approval of the National Waste Management Plan until 2030»

* <https://mepr.gov.ua/timeline/Vidhodi-ta-nebezpechni-rechovini.html>

«Principles of waste management reform» + Hierarchy of waste management

2.3 National standards and technical guidelines (collection, treatment and use)

* <https://zakon.rada.gov.ua/laws/show/287-19#Text>

«About by-products of animal origin, not intended for human consumption»

2.4 Quality Assurance Scheme (QAS) and National Quality Assurance Organization (NQAO)

"COMPOSTU" Association (now - under approval in Antimonopoly Committee of Ukraine).

There are state bodies, laboratories, institutes that carry out research. There are general control bodies in the State.

There are unions and general associations and other special associations.

If necessary, we will initiate. What is needed?

3 Source separated collection of bio-waste

* <https://www.kmu.gov.ua/news/v-ukrayini-startuye-reforma-upravlinnya-vidhodami>

In fact, today Ukraine is the only country in Europe where the state has no control over waste, and more than 90% of it is buried in the ground.

* <https://www.minregion.gov.ua/napryamki-diyalnosti/zhkh/teretory/stan-sfery-povodzhennya-z-pobutovymy-vidhodamy-v-ukrayini-za-2020-rik-2/>

The reform is taking place very slowly, since the local authorities must be responsible for it and they have not yet learned to be effective for the people

* <http://zelenemisto.info/>

COMPOSTING OF ORGANIC WASTE - municipal project for which our company supplied equipment from Germany and trained personnel

* <https://mhp.com.ua/en/glorytoUkraine>

Our clients - ordered composting services from us, bought German equipment, consult with us and process organic waste (compost) themselves. They have many divisions and each goes its own way, but we work with all of them and help where necessary.

4 Bio-waste treatment (recycling, material/energy recovery)

* <https://interfax.com.ua/news/interview/712392.html>

«today, only 6% of waste is recycled, and 92-94% ends up in landfills»

***The field of waste management (processing):

*in private property (business) does not provide reliable information. *in communal power - requires modernization (we only know about the city of Lviv and their compost center).

*energy generation from organic matter (including produced digestate) - we have no information.

5 Application and market

When we started dealing with compost in 2015, we studied its potential in our country for more than a year. Since we have many farms who have animal waste (ABP), and we need to restore the land due to its very intensive use in the agricultural sector (53.9% of the land in our country is plowed up - this is the largest figure in the world. Information about land source). <https://www.kmu.gov.ua/npas/pro-zatverdzhennya-nacionalnoyi-eko-a179?fbclid=IwAR3k5GR9zUv3AzdDOCozzfRYFJ0FIfyaDuZqZyCNnfk7uSOLyLiRqL49DPU>

The market is still young and emerging. We need your experience and we are ready to apply it and share it in our country. Today we are already doing this in the field of practical knowledge to reduce the cost of composting services for businesses. For the communal sector and local authorities, we are also ready to show the right path and there are good local politicians and leaders.

6 Expected trends and developments

There are national plans and they are moving slowly because of politics. Together with the business, we made a good tariff for composting and the resulting material replaces mineral fertilizer for them, while they save money on the difference. But this is not enough, because it is necessary to do it according to not only economic indicators using the obtained material, but also complying with harmonized EU standards, so that this material can be called Compost (CMC 3 or otherwise according to standards).

7 Contacts and sources of information

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old information:
<http://www.organic.ope.com.ua/>
<https://ope-organic.business.site/>
<https://www.youtube.com/channel/UCfDvl9QmH1yML2e9OSckLQg>

Annexes (Please attach any regulation, directive on bio-waste, fertiliser etc. of your country)
<https://zakon.rada.gov.ua/laws/show/287-19#Text>

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