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1 Introduction on bio-waste management in Slovenia

We have separate collection scheme for bio waste, which function successfully. The kitchen waste and the green waste are collected and treated as part of the mixed Municipal Solid Waste (MSW).

Separate collection, generating a cleaner bio-waste fraction which allows us to produce high quality compost and digestate through biological treatment facilities.

We have high material recovery rates and anaerobic digestion is the most common biological waste treatment option (some 92%¹) of current biological waste treatment operations.

2 National concept/strategy on bio-waste management

2.1 Legal framework

Environmental Protection Act

<http://www.pisrs.si/Pis.web/pregledPredpisa?id=ZAKO8286>

Decree on waste

<http://www.pisrs.si/Pis.web/pregledPredpisa?id=URED8482>

Decree on the treatment of biodegradable waste and the use of compost or digestate

<http://www.pisrs.si/Pis.web/pregledPredpisa?id=URED6281>

Decree on biodegradable kitchen waste and garden waste management

<http://www.pisrs.si/Pis.web/pregledPredpisa?id=URED5366>

Decree on the management of sewage sludge from the urban waste water treatment plants

<http://www.pisrs.si/Pis.web/pregledPredpisa?id=URED4880>

Decree on the protection of waters against pollution caused by nitrates from agricultural sources

<http://www.pisrs.si/Pis.web/pregledPredpisa?id=URED5124>

2.2 Waste management programs and strategies

W Waste management and waste prevention programmes

2022: https://www.gov.si/assets/ministrstva/MOP/Operativni-programi/op_odpadki_2022.pdf :

2016: https://www.gov.si/assets/ministrstva/MOP/Operativni-programi/op_odpadki.pdf

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

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

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¹ https://www.gov.si/assets/ministrstva/MOP/Operativni-programi/op_odpadki_2022.pdf

3 Source separated collection of bio-waste

In Slovenia a separate collection scheme of bio-waste generating a cleaner bio-waste fraction which allows producing high quality compost and digestate through biological treatment.

The composition of municipal waste in Slovenia was re-examined in 2014 and is the basis of the data and projected trends of bio-waste as a part of municipal waste management by 2035 in the Programme for management of waste and Waste prevention programme of the Republic of Slovenia (latest version 2022).

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

We have 22 composting facilities with a total capacity of 180.393 t/a (Open Air Windrow cca. 60 %; In-Vessel Composting cca. 40 % t/a) and 18 anaerobic treatment facilities with a total treatment capacity of 376.151 t/a.

5 Application and market

Compost (and digestate) that has been produced in Slovenia is used in Slovenia also (consume domestically). The ABPR gives the Member States the possibility to establish national requirements and authorisation for some selected materials and treatment methods and in Slovenia the special disposal rules (and parameters) on the collection and disposal for animal by-products of Cat 3 for the compost (compost only) are set out, and in that case so the compost which has been produced in Slovenia is may only be placed on the market where those parameters have been authorised (in Slovenia).

6 Expected trends and developments

In the future the treatment shares from anaerobic digestion will rise, because new biogas (waste) facility in the Municipality of Ljubljana has been placed in service.

New biogas facility in Municipality of Ljubljana:

Snaga_Phase_1: 161.774 t/a (its maximum capacity; already started)

Snaga_Phase_2: 191.174 t/a (its maximum capacity; not started yet)

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Annexes (Please attach any regulation, directive on bio-waste, fertiliser etc. of your country)

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REPUBLIC OF SLOVENIA

MINISTRY OF THE ENVIRONMENT, CLIMATE AND ENERGY