

Waste Streams treated in biological treatment plants (Composting and Anaerobic Digestion)

Italy

In 2023 (lastest official data provided by the Italian Institute for Environmental Protection and Research) the Italian biowaste treatment plants treated 8,7 million tonnes of waste (5,0 million tonnes of food waste, 1,9 million tonnes of green waste, 1,2million tonnes of sludge including sludge from agri-food industry and 0,6 million tonnes of organic waste different from the previous categories of waste).

In the following table the data is detailed separately for composting and AD &composting plants:

Type of plant	Food waste million t	Green waste million t	Sludge million t	Other types of waste million t
Composting p.	1,2	1,3	0,6	0,3
Integrated Anaerobic digestion & composting plants	3,8	0,6	0,6	0,3
TOT	5,0	1,9	1,2	0,6

Germany

Amounts¹ of the following waste streams treated in anaerobic digestion plants² which takes part in the German Quality Assurance Scheme of [BGK](#):

Starch sludge from potato industry:

- Figures cannot be accessed individually from the statistical figures but are included in organic waste streams from food processing industry.

Whey and other fractions of milk from dairy processing:

- 64.000 tonnes whey treated in 24 anaerobic digestion plants
- 170.000 tonnes waste water from the milk processing industry in 18 anaerobic digestion plants

Molasses from different origins:

- 8.300 tonnes in 8 anaerobic digestion plants

Residues from the production of alcoholic drinks

- 375.000 tonnes in 9 anaerobic digestion plants

¹ All figures are fresh matter based

² Please note, if any of these materials are excluded as input materials under the EU FPR, the total digestate from these plants and as well the compost produced from these digestate material as input for post-composting cannot be CE-labelled under the EU FPR.

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Organic waste streams from feed processing industry and residues from pet food

- 50.000 tonnes of organic waste from food and feed processing industry in 33 plants
- 24.000 tonnes of waste water from the food and feed processing industry in 23 plants

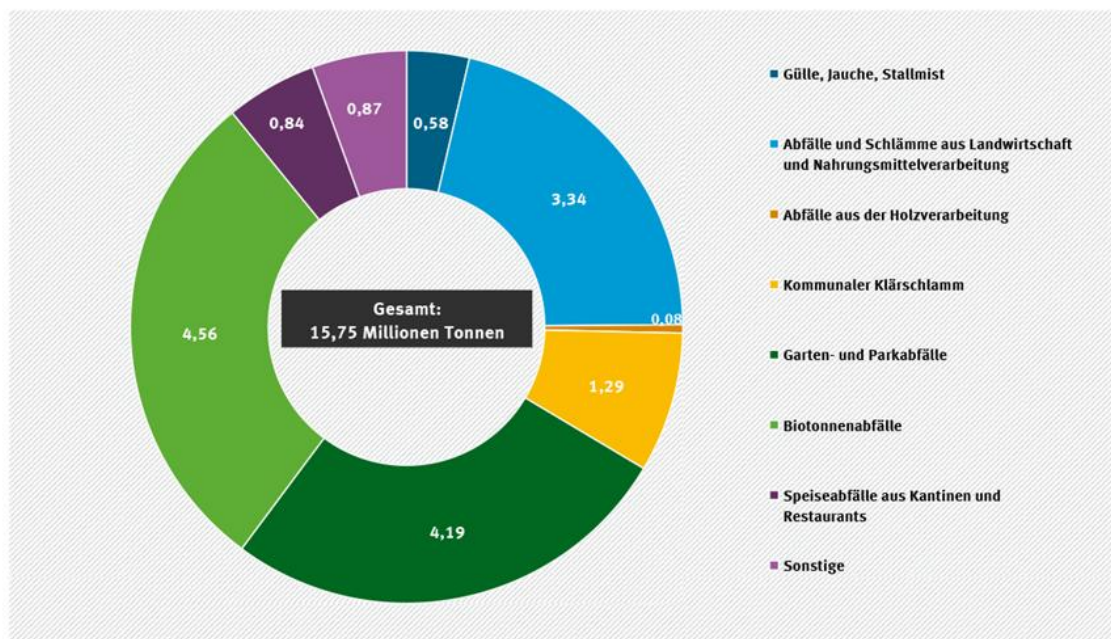
Organic waste materials from the production of biofuels, bio-ethanol or other biobased products, such as glycerine and residues of maize/grains after production of bioethanol, oil or fat such as spent frying oil, of vegetable and/or animal origin.

- 400.000 tonnes pulp (stillage) in 1 plant
- 550 tonnes of plant-based glycerine in 2 plants
- 7,5 tonnes of animal-by-product based glycerine in 3 plants

An overview of all input materials for biological treatment plants in Germany can be assessed by the German Agency of Statistics for the year 2022 (Statistisches Bundesamt, Abfallentsorgung 2022, Wiesbaden, Stand 06/2024) and are published on the website of the German Environmental Agency ([Umweltbundesamt UBA](https://www.umweltbundesamt.de)):

Zusammensetzung der an biologischen Behandlungsanlagen angelieferten biogenen Abfälle 2022

Millionen Tonnen



Quelle: Statistisches Bundesamt, Abfallentsorgung 2022, Wiesbaden, Stand 06/2024

In 2022, 3,34 million tonnes of 'waste and sludges from agriculture and food processing industries' were treated in biological treatment plants