



ECN's feedback on the Commission's EU Taxonomy Environmental Delegated Act

The ECN welcomes the opportunity to comment on the Commission's proposal for an Environmental Delegated Act in the framework of the EU Taxonomy Regulation, which establishes a classification system for environmentally sustainable economic activities.

Specifically, the ECN would like to submit its feedback on ANNEX II of the draft delegated act focusing on determining the conditions under which an economic activity qualifies as contributing substantially to the transition to a circular economy. As representatives of the biowaste recycling sector and promoters of sustainable resource use through the application of high-quality compost and digestate in agriculture, horticulture, and landscaping, ECN fully supports the shift towards a circular model generating benefits to all three dimensions of sustainability.

Composting and anaerobic digestion processes create multiple positive environmental effects that help achieve different objectives and targets set by the European Green Deal, thus we first and foremost welcome the recognition of their contribution to these goals with their inclusion in the list of environmentally sustainable economic activities.

1. MANUFACTURING

1.1 Manufacture of plastic packaging goods

Concerning the chapter dedicated to 'Manufacture of plastic packaging goods' (1.1) criterium number 4 deals with compostable materials in packaging applications, providing a positive list of items in line with the proposed revision of the Packaging and Packaging Waste Directive (PPWR) adopted by the European Commission on November 30. In our view, the PPWR is the most appropriate instrument to define which type of item shall be made compostable and hence can be considered sustainable according to the draft environmental delegated act. For this reason, the delegated act should refer to the PPWR, and only once it is legally adopted. In any case, the ECN once again would like to stress that the sustainability of compostable packaging is intrinsically linked to the specific type of composting and anaerobic digestion systems and no one-size-fits-all approach is applicable. Existing national regulations for the permission of biodegradable packaging materials have to be taken into account as well. When conditions of the treatment process (composting or anaerobic digestion) do not allow proper degradation of the biodegradable plastic materials, then these materials should not be allowed.

EUROPEAN COMPOST NETWORK ECN e.V.





2. WATER SUPPLY, SEWERAGE, WASTE MANAGEMENT AND REMEDIATION ACTIVITIES

2.1 Phosphorus recovery from waste water

As regards chapter 2.1. covering activities for the recovery of phosphorus from waste water, ECN wants to highlight that the biological treatment (both anaerobic digestion and composting) of sewage sludge should be also taken into consideration as a type of sustainable activity for the recovery of nutrients, including phosphorus.

2.3 Collection and transport of non-hazardous and hazardous waste

ECN welcomes the criteria laid down in chapter 2.3. limited to the activities pertaining to the collection and transport of non-hazardous waste aimed at preparing waste for recycling operations. The ECN acknowledges the alignment of the draft delegated act with the provisions laid down in the Waste Framework Directive regarding source segregation and separate collection of waste. Especially, we are glad that among the criteria set out for municipal waste streams in paragraph 3, the door-to-door collection is regarded as the preferred scheme and outlines the importance of keeping the contamination rate low (3.a). The door-to-door collection is a fundamental step in the development of an efficient collection system, whereas some EU countries are considering implementing 'collection-points' which have already proven to be ineffective in keeping the quality of the biowaste stream high. Requesting that such 'collection points' should be supervised is a first approach 'to ensure a high level of separate collection and low rates of contamination' but there is a need to specify criteria for the supervision.

ECN also approves the incorporation of criterion 3.b, requiring the activity to put in place economic instruments to reduce the number of materials ending up in the residual waste stream to be deemed sustainable, which should be complementary to a successful collection system.

2.5. Recovery of bio-waste by anaerobic digestion or composting

When assessing the criteria formulated for activities concerning the recovery of biowaste through anaerobic digestion and composting processes (2.5), some shortcomings need to be addressed to make them more robust and to not leave room for loopholes.

Draft delegated act	ECN amendments
1. The bio-waste that is used for anaerobic	1. The bio-waste that is used for anaerobic
digestion or composting is source	digestion or composting is source
segregated and collected separately.	segregated and collected separately, with
Where bio-waste is collected in	the exclusion of separate collection
biodegradable bags, the bags have the	systems which are carried out via
appropriate compostable certification	conventional plastic bags. Where bio-
standard EN 13432:2000.	waste is collected in biodegradable bags,
	the bags have to be certified according an



appropriate standard, which guarantees
the degradation of the bags within the
biological treatment process

First, ECN calls for the introduction of a complete ban on the utilisation of conventional plastic bags to collect biowaste as a general criterion. Where the system allows the biowaste to be collected with certified biodegradable bags, these shall also be suitable for the degradation under anaerobic conditions, which must be added to the technical screening criterion number 1. Anaerobic digestion is included as one of the best available techniques (BAT) for the biological treatment of the organic waste stream and must be recognised as such. A revision of the EN 13432 is needed to guarantee that the different biological treatment of separately collected bio-waste, are respected.

Draft delegated act	ECN amendments
2. In these anaerobic digestion plants,	2. In these anaerobic digestion plants,
source segregated bio-waste from separate	source segregated bio-waste from separate
collection constitutes at least 70% of the	collection constitutes at least 70% of the
input feedstock, measured in weight, as an	input feedstock, measured in weight, as an
annual average. Co-digestion may cover up	annual average. Co-digestion may cover up
to 30% of the input feedstock of advanced	to 30% of the input feedstock of advanced
bioenergy feedstock listed in Annex IX to	bioenergy feedstock listed in Annex IX to
Directive (EU) 2018/2001, which may not	Directive (EU) 2018/2001, which may not
include contaminated feedstock coming	include contaminated feedstock coming
from biomass fraction of mixed municipal	from biomass fraction of mixed municipal
and industrial waste. The input does not	and industrial waste. The input does not
include feedstock excluded in Part II of	include feedstock excluded in Part II of
Annex II to Regulation (EU) 2019/1009, for	Annex II to Regulation (EU) 2019/1009, for
Component Material Category (CMC) 3	Component Material Category (CMC) 3
(Compost) in accordance with point (c) of	(Compost) in accordance with point (c) of
that category and for Component Material	that category and for Component Material
Category (CMC) 5 (Digestate other than	Category (CMC) 5 (Digestate other than
fresh crop digestate) in accordance with	fresh crop digestate) in accordance with
point (c) of that category.	point (c) of that category.

Criterion number 2 proposing a 70/30 ratio of biowaste to other input material for anaerobic digestion is not acceptable. It can be environmentally sustainable as well to recycle more than 30 % of other organic materials such as manure, other agricultural residues, and food industry residues (including sludges from the food processing industry) in composting and anaerobic digestion plants. For the environment, it is better to treat manure instantly



(capture the greenhouse gases) than to put it in storage (emission of greenhouse gases). It has to be taken into account as well that the availability of input materials differs from one region to another.

ECN calls to delete the reference to the Renewable Energy Directive (RED) since national legislation allows different input materials which are suitable for organic recycling in composting and anaerobic digestion plants.

In addition, the reference to the EU Fertilising Products Regulation (FPR) 2019/1009 has to be deleted, as the EU FPR foresees an optional harmonisation for placing CE marked fertilising products on the European market. Fertilising products and as well compost and digestate can be placed according to national regulations on the national markets. Compost and digestate are mainly dealt as local products on a regional level.

Draft delegated act	ECN amendments
3. The activity produces one of the	3. The activity produces one of the
following:	following:
(a) compost or digestate complying with	(a) compost or digestate complying with
Regulation (EU) 2019/1009, in particular	Regulation (EU) 2019/1009, in particular
with requirements of Annex II on the	with requirements of Annex II on the
Component Material Categories (CMC),	Component Material Categories (CMC),
referring specifically to CMC 3 (Compost)	referring specifically to CMC 3 (Compost)
and CMC 5 (Digestate other than fresh crop	and CMC 5 (Digestate other than fresh crop
digestate) or with national rules on	digestate) or with national rules on
fertilisers or soil improvers, with equal or	fertilisers or soil improvers, with equal or
stricter requirements compared to those of	stricter requirements compared to those of
Regulation 2019/1009;	Regulation 2019/1009;
	And, as additional products:
(b) chemicals through the conversion of	(b) chemicals through the conversion of
organic waste to carboxylates, carboxylic	organic waste to carboxylates, carboxylic
acids or polymers by fermentation with	acids or polymers by fermentation with
mixed cultures.	mixed cultures. After the recovery of such
	chemicals, the residual biomass must be
	converted through composting or AD and
	not landfilled or incinerated.

Criterion 2.5.3(a) should not restrict the inclusion of composting and anaerobic digestion activities just to those complying with national rules equal or stricter than the FPR creating obligations that only a fully harmonised regulation would meet. Some of the national legislations regulating fertilisers are only partially harmonised with the FPR, but should



nonetheless be considered in the scope. Also, following a sustainable approach, the residual biomass originating from the production of chemicals (2.5.3(b)) shall be recovered through organic recycling (composting and anaerobic digestion) instead of being landfilled or incinerated.

Draft delegated act	ECN amendments
	4. Quality assurance of the production
	schemes for compost and digestate.

In order to support the manufacture of quality compost and digestate across Europe, ECN has established a benchmark for quality assurance schemes for compost and digestate products across Europe by developing a pan-European quality assurance scheme for compost and digestate (<u>ECN-QAS</u>) in cooperation with the national quality assurance organisations for compost and digestate.

Over the last 30 years, several quality assurance schemes for compost and digestate have been implemented on a national level which controls the input material, the production process and the final quality of compost and digestate.

Restricting the quality assurance to the conformity assessment procedures using the Module D1 set out in the EU FPR (2019/1009) will exclude the 'recovery of bio-waste by anaerobic digestion or composting' from the EU Taxonomy.

Draft delegated act	ECN amendments
5. Compost and digestate complying with	5. Compost and digestate from source
Regulation (EU) 2019/1009 or equivalent	segregated or separately collected
national rules is not landfilled.	biowaste and other organic materials
The digestate is preferably composted after	(agricultural and food industry residues)
anaerobic digestion to maximise benefits to	complying with Regulation (EU) 2019/1009
the soil it is applied to afterwards, and	or-equivalent with national rules is not
minimises some potential agro-	landfilled.
environmental issues such as release of	The digestate is preferably composted after
ammonia and nitrates.	anaerobic digestion to-maximise benefits to
	the soil it is applied to afterwards, and
	minimises some potential agro-



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environmental issues such as release of
ammonia and nitrates.

Technical criterion 5 suggests that digestate has to be composted after anaerobic digestion as the preferred option to maximise benefits to the soil and minimise potential issues related to nitrate leakage. ECN proposes to delete this paragraph as it is not always possible or useful or even better to compost digestate. It depends on the anaerobic digestion process, the input material, the specific pedoclimatic conditions and the intended use of the digestate. A lot of treatment steps are necessary before a wet digestate can be composted. Other treatment options can be more interesting (from an economical and/or environmental point of view) such as drying and the production of concentrates.

Therefore, the request to post-compost digestate should be deleted. It should be respected that several EU countries have consolidated practices to apply digestate directly to the soil and to use other post-processing methods (like drying and pelletising of digestate).

About the ECN

The ECN is the leading European membership organisation promoting sustainable recycling practices by composting and anaerobic digestion of organic resources and guarding over the quality and safe use of the recovered organic fertilisers and soil improvers. With 67 members from 28 European Countries ECN represents more than 4500 experts and plant operators with more than 48 million tonnes of biological waste treatment capacity.

About the ECN-QAS

Since 2012 the <u>ECN-QAS</u> is registered as Trade Mark at the European Register of Community Marks for certified quality assurance organisations, facilitating quality assurance of compost and digestate products (OHIM 2012/210: TM No 011007168).

The ECN-QAS includes the characterisation of quality standards for recycled organic resources (compost and digestate) with the aim of facilitating the free cross-border movement of goods within the EU. The ECN-QAS, sets out requirements for national quality assurance organisations, process management and compost and digestate quality criteria. The ECN-QAS sets a common basis for existing quality schemes in Europe and can be considered as an example to support Member States to define quality standards and develop their own quality assurance scheme for composts and digestate. The requirements for quality assurance organisation are based on EN 17065 and the ECN-QAS requirements were taken up as well in the Module 1 of the EU Fertilising Products Regulation.

According to ECN's latest survey in 2021, 71 million tonnes per annum (tpa) of separately collected bio-waste were treated through composting and anaerobic digestion (60 million tpa in the EU27 and 11 million in CH, NO and UK). An estimated 21.1 million tpa of compost was produced, with an overall fertiliser value 864 million EURO. This amount of compost replaces around 170 kt nitrogen (N), 63 kt phosphorus (as P2O4) and 100 kt potassium (as K2O) per year.

Twenty-five percent of all compost produced in the EU27, CH, NO and UK was certified to the ECN's Quality Assurance Scheme (5.3 million tpa out of a total of 21.7 million tpa).

Source: ECN Data Report 2022