TAIEX-EIR Multi-country Flagship Workshop on biowaste management

Circular Economy aspects of the European Green Deal and related policies

Viewpoint of European Compost Network

Presented by

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@ECNnetwork

www.compostnetwork.info

European Compost Network







Circularity &
Sustainability
is at the heart
of everything
we do

66 Members from 28 European Countries

≈ 48 M tpa Treatment Capacity

> 4.500 Composting & Anaerobic Digestion Plants

Biowaste & The Bioeconomy



BIOWASTE



A Cross-Cutting Resource

European Green Deal

Bioeconomy Strategy

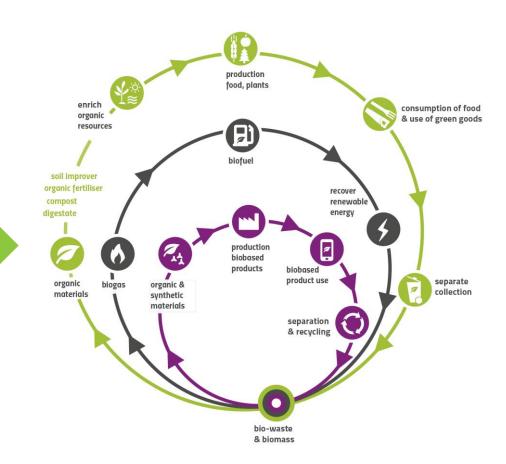
Biodiversity Strategy

Farm to Fork Strategy

Soil Strategy

Waste Framework
Directive
Zero Pollution Action
plan

BIOWASTE in the Circular Bioeconomy



ECN's Data Report 2022



Comprehensive survey in 2021



ECN DATA REPORT 2022 COMPOST AND DIGESTATE FOR A CIRCULAR BIOECONOMY

Overview of Bio-Waste Collection, Treatment & Markets Across Europe

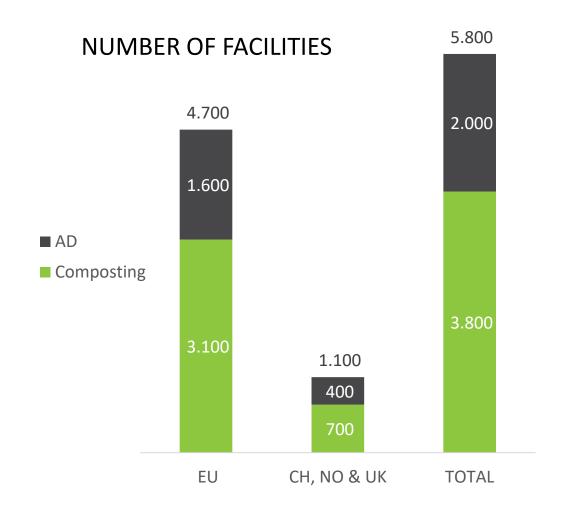


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Biowaste Treatment – FOR PEOPLE – JOB CREATION





	FTEs PER FACILITY	TONNES PER FTE
COMPOSTING	4.7	4,200
ANAEROBIC DIGESTION	4.9	5,300



11,000 - 18,000 FTEs COMPOSTING

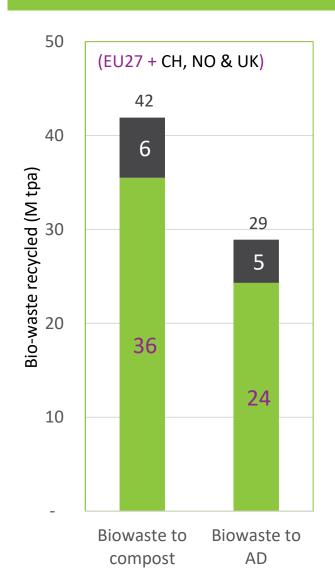


2,000 - 5,500 FTEs
ANAEROBIC DIGESTION

FTE – Full Time Equivalent Employees

Biowaste Collection – Compost & Digestate Production





71 M tpa

BIO-WASTE RECYCLED

21 M tpa

COMPOST PRODUCED

Surface area (million ha)	Fraction of Arable Land	Fraction of Mod./ Severely Eroded Land
2.1	2%	16%

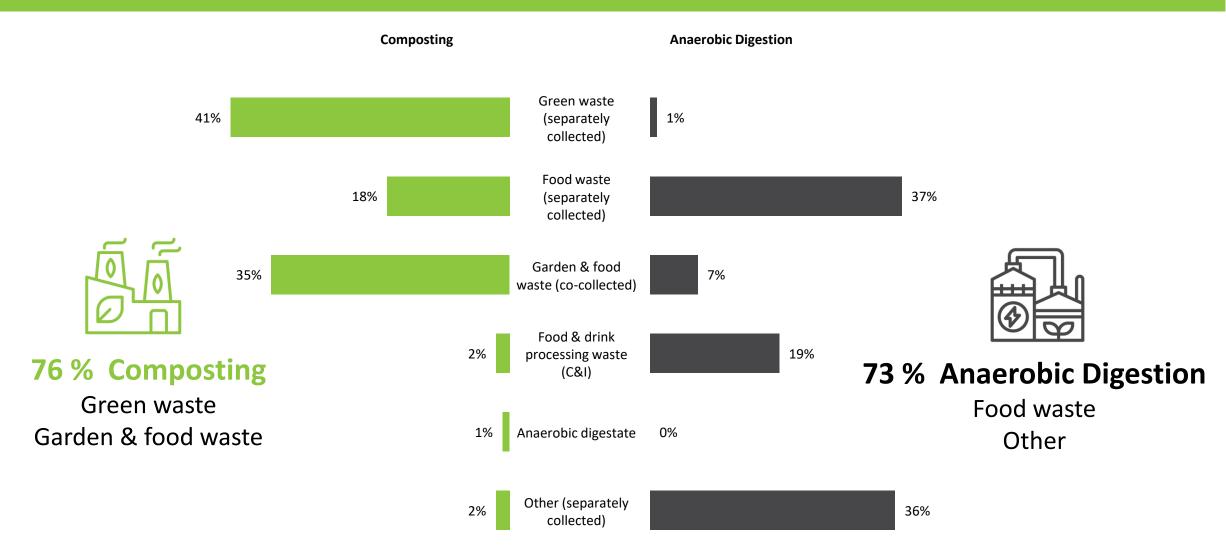
1.2 million tonnes CO₂-eq sequestered on agricultural soils every year



19.1 million
urban tree
seedlings grown
for 10 years

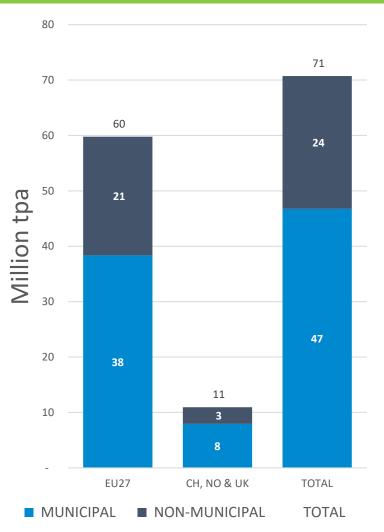
Biowaste - TYPES COMPOST & DIGESTATE PRODUCTION





Municipal Biowaste – RECYCLING POTENTIAL





EU TARGET TO RECYCLE 65% MSW BY 2035

17% to 35% needed through bio-waste

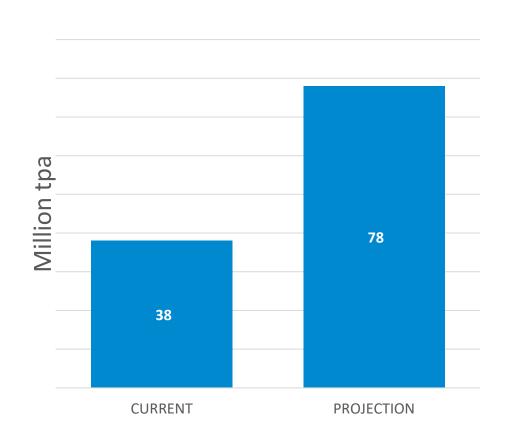
Extra 40 M tpa

MUNICIPAL

BIOWASTE has to

be separately

collected!



Biowaste – GUIDANCE ON SEPARATE COLLECTION

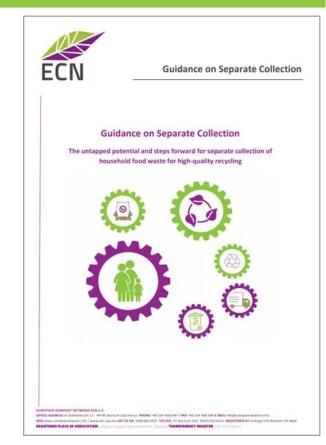


The guidance focuses on setting indicators to evaluate the effectiveness of separate collection of bio-waste and

Separate collection schemes mainly rely on the collection of green waste
 39 % of biowaste remains in residual waste (UBA 2020)

Recommendations

- Monitoring of the bio-waste composition (green waste and food waste)
- Minimizing the amount of food waste (kg/capita/year) in the residual waste
- Reducing impurities in the collected bio-waste
- ECN Online map with good practices on separate collection
 <u>https://www.compostnetwork.info/policy/biowaste-in-europe/separate-collection/</u>



https://www.compostnetwork.info/download/ecn-guidance-on-separate-collection/

Biowaste – HIGH QUALITY RECYCLING



PRECONDITION FOR HIGH QUALITY RECYCLING

- Separate Collection of Biowaste
- Quality Assurance of Processes and Products
- Fnd-of-Waste Criteria



25 % Quality Compost

produced in the EU 27, CH, NO; UK was certified to the ECN-QAS

=

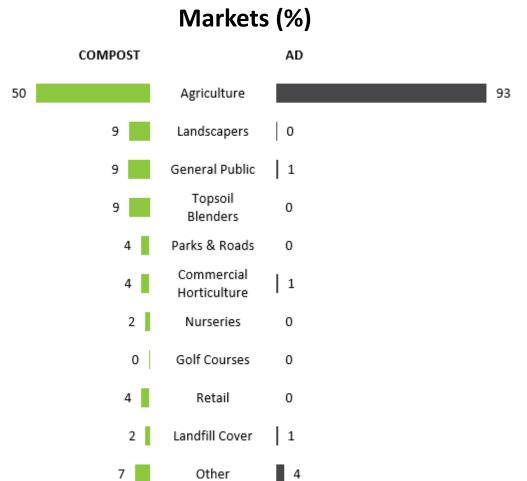
5.3 Million tpa out of 21,7 Millon tpa

Nutrient value

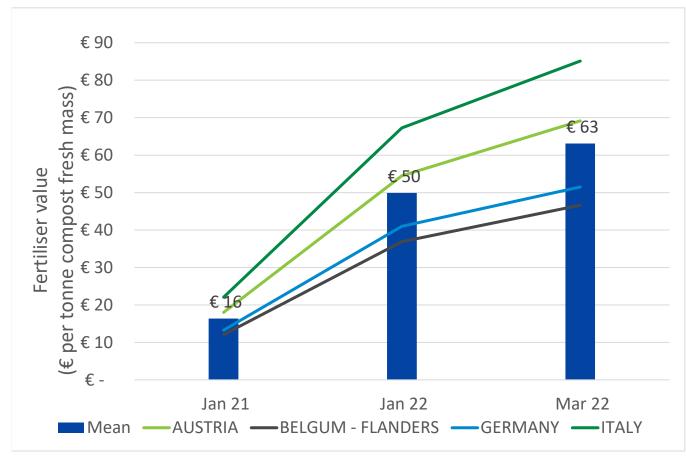
41 € per tonne compost (FM)

Compost & Digestate – MARKETS & FERTILISER VALUE





Fertiliser Value



- Enforcement: implementation of biowaste separate collection (esp. food waste)
- Binding recycling target for separate collected'/source separated municipal biowaste
- Separate collection/recycling target for commercial and industrial biowaste

KEY MESSAGES

Waste Framework Directive Fertilising
Products &
Animal ByProducts
Regulation

- Unsuitable ABPR treatment requirements for food waste from kitchen (Cat. 3)
- Exemption of sludges from food & feed processing industries as input material for composting & AD
- Unbalanced requirements in the conformity assessment procedures for compost & AD

- Including compost & digestate from biowaste in carbon farming practises, carbon removal schemes
- Replacement of mineral fertilisers with high-quality recycled organic materials
- Recognition of soil organic matter in the Integrated Nutrient Management Action Plan

Farm to Fork

&
Sustainable
Carbon
Cycles

Soil Health
Law &
Biodiversity
strategy

- Maintaining & improving soil organic matter
- Recognition of carbon sequestration potential of compost and solid digestate
- Replacement of peat in growing media with highquality recycled organic materials (compost & solid digestate)



Further information



Sign the manifesto 'Save Organics in Soil':

www.saveorganicsinsoil.org





Visit ECN Homepage:

www.compostnetwork.info



https://www.compostnetwork.info/download/ecn-status-report-2022/