

Germany

Consistent development of biowaste management and the role of legislation

Stefanie Budewig

Federal Ministry for the Environment,
Nature Conservation and Nuclear Safety

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Reasons for biowaste recycling

Sustainability

→ use of plant nutrients in biowaste

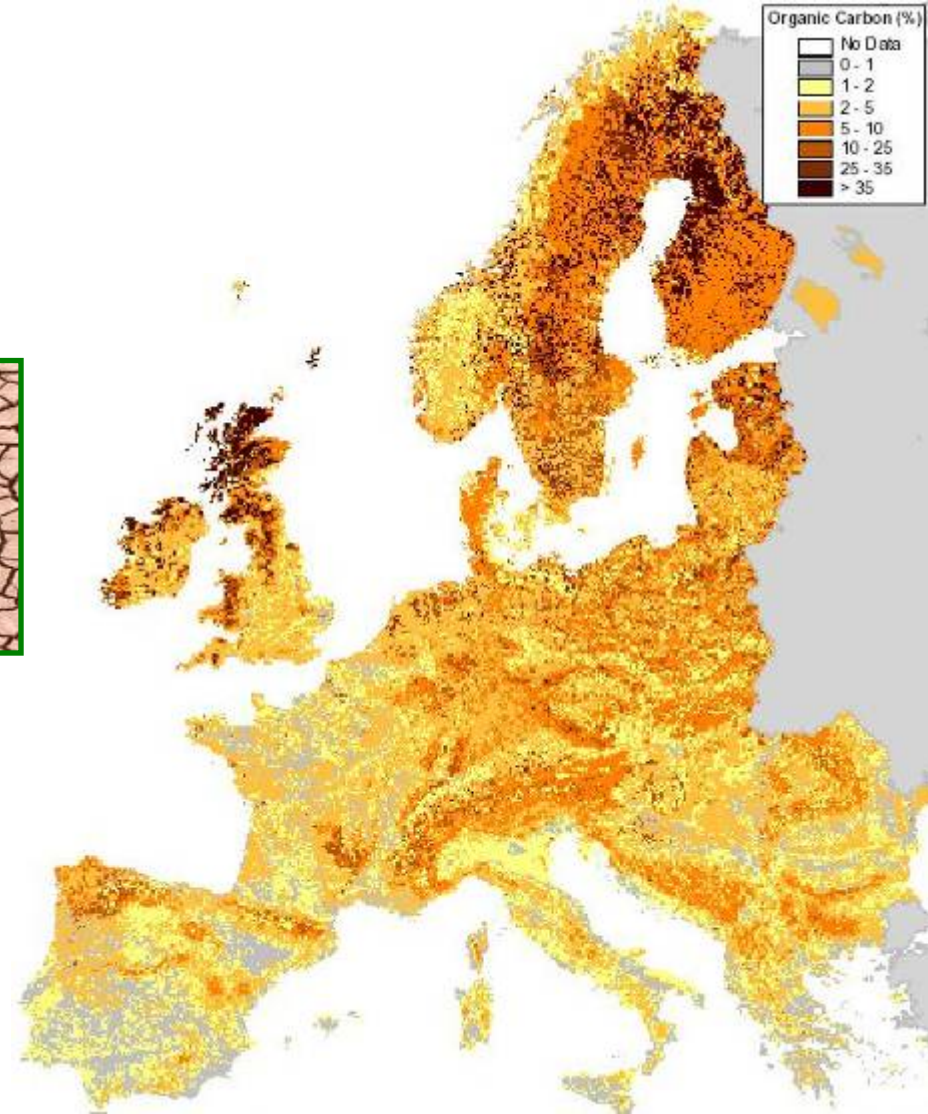




Reasons for biowaste recycling

Soil Protection

→ organic matter





Reasons for biowaste recycling

Energy production

→ biogas or incineration



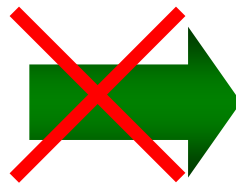


Reasons for biowaste recycling

Climate change: EU-wide landfill ban for biologically degradable waste

→ **100.000.000** tonnes of CO₂ equivalents could potentially be eliminated by 2020

>30% of the European target!





Situation in Germany today

Compost

~ 950 composting sites



Treatment of 10.9 million
tonnes of biowaste



Biogas

~ 650 biogas plants



Situation in Germany today

Compost or biogas?

DIGESTION

ENERGY



COMPOST

NUTRIENTS
+ ORGANIC
MATTER

OR BOTH!



Situation in Germany today

To date ~ 80 combined digestion/composting facilities.



Financial incentives for installations exclusively fermenting biowaste and linked directly to a facility for composting the remaining digestate!

revised German Act on Renewable Energy Sources



How did we get there?

Legislation

German Ordinance on Biowastes with strict standards for

RESULT:

High quality compost and a high level of consumer trust and acceptance!



How did we get there?

Separate collection
a must for
QUALITY!





Successful biowaste recycling - how?

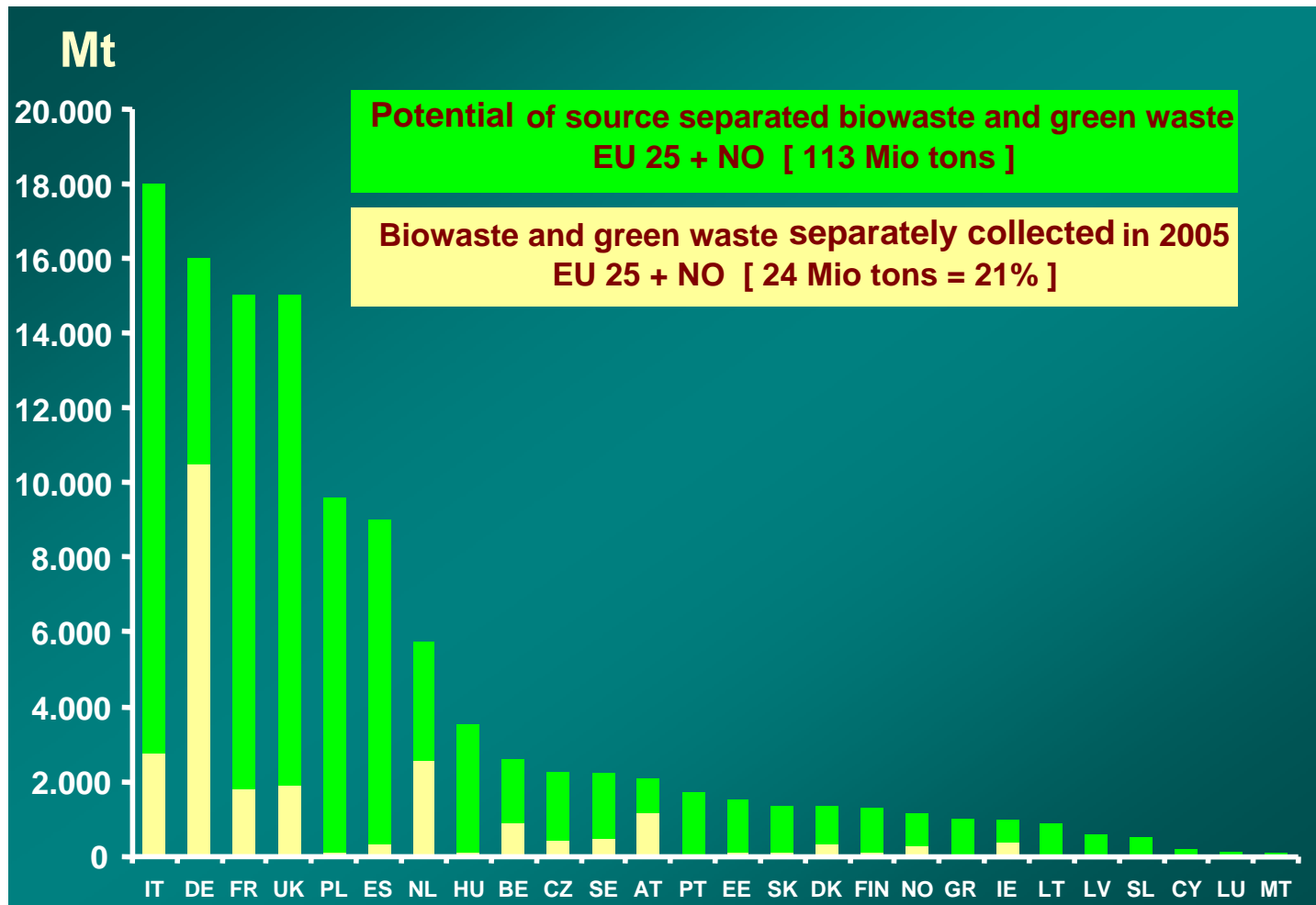
The whole chain must work!
collection – treatment – demand

1. Separate collection
2. Optimal treatment
3. High quality and consumer confidence





Potential



Source: Compost-Consulting & Development, F. Amlinger, 2006



What about the EU?

Environmental advantages are clear!

Experience and technical solutions exist!

Individually adapted solutions keep costs low!

Results more than justify the effort!





Successful biowaste recycling - how?

The whole chain must work!
collection – treatment – demand

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Do we need an EU Biowaste Directive?

High volume of biowaste

Impact assessment shows:

High prevention + recycling result in
lowest
total financial and environmental costs



Bundesministerium
für Umwelt, Naturschutz
und Reaktorsicherheit

EU Legislation paves the way

Clear signal for Europe!

Raised awareness!

Defined standards!

High quality!

Environmentally safe use!

Common goals!

Individual solutions!





Bundesministerium
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Thank you for your attention!

Dr. Stefanie Budewig
Federal Ministry for the Environment,
Nature Conservation and Nuclear Safety

Tel: ++49 22899/305-2591
stefanie.budewig@bmu.bund.de
www.bmu.de

