The 2016 WTERT Conference

- Progress in waste management in Germany and Eastern Europe

COLUMBIA UNIVERSITY, NEW YORK CITY, OCTOBER 6 & 7, 2016

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Waste management progress in Germany and Eastern Europe

As of 1 June 2005, landfilling of domestic refuse and commercial wastes similar to domestic refuse without pretreatment is prohibited in Germany. The German government aims to achieve almost complete high-quality recovery, at least of municipal waste, by 2020.

We have lots of Waste-to-energy and recycling plants.

Is everything ok?

Germany:

Product responsibility is at the heart of waste management policy in Germany. It puts the idea into practice that waste avoidance is best achieved by holding the generator of waste responsible.

This way, producers and distributors must design their products in such a way as to reduce waste occurrence.
Some vote for higher recycling rates, others hope for a stronger policy against producers but we still do not have any idea how to reduce waste.

Waste management in Germany is at least a great business:

70 Billion Euro turnover per year

Germany:
So every Zero Waste Initiative with enough power is in opposite to all these workers, earning their money by carrying waste around and hoping that at the end of day everything is recycled.

This means we need incineration plants and we still need landfills as a trough for the toxic substances in waste.
Waste management progress in Germany and Eastern Europe

<table>
<thead>
<tr>
<th>Year</th>
<th>Incineration/energy recovery</th>
<th>Recovery (excluding energy recovery)</th>
<th>Disposal (excluding incineration)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>1116.3</td>
<td>889.8</td>
<td>108.2</td>
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<tr>
<td>2008</td>
<td>997.2</td>
<td>1087.5</td>
<td>129.9</td>
</tr>
<tr>
<td>2010</td>
<td>1058.1</td>
<td>1056.2</td>
<td>131.3</td>
</tr>
<tr>
<td>2012</td>
<td>1111.8</td>
<td>1052.7</td>
<td>137.8</td>
</tr>
</tbody>
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(*) Eurostat estimates.
Waste to Energy Research and Technology Council Eastern Europe: Waste management progress in Germany and Eastern Europe

Progress? … only a few
Engineering – Research work and design

Composting Plant for biowaste – Design

Fermentation Plant - Project control

Landfill – Design, Research Work

Civic Amenity Sites - Design

All projects by:
Technology transfer project on behalf of:
Federal Ministry for Economic Affairs and Energy

Waste Hierarchy:
1. Prevention
2. Preparing for re-use
3. Recycling
4. Other recovery, e.g. energy recovery
5. Disposal
We promote for a good landfill operation.

... the need for incineration

... the benefit of fermentation

Sustainable Waste Management in Kroatien
Forum mit Leistungspräsentation in Zagreb

BMWi-Markterschließungsprogramm für KMU 2016
Best practice: Waste prevention in Munich „No throw away dishes at the Oktoberfest“
Visitors/Year: about 6 Million

Waste before 1991: 2 kg/v = total amount: 12,000 tons
Waste after prevention act in Munich: 0,2 kg/v = total amount: 1,200 tons
Sustainable Waste Management in Kroatien
Forum mit Leistungspräsentation in Zagreb
BMWi-Markterschließungsprogramm für KMU 2016

Should we tell them, to reduce consuming…?

In order of the Federal Ministry for Economic Affairs …?
What is our responsibility – our task?

I guess the WtERT family is predestined to increase awareness of waste problems and to harmonize the various possibilities of technical solutions – and this not only in Eastern Europe!
Stakeholders need information and knowledge free of ideologies:

Unlike other common waste management hierarchies the areas landfill, incineration and recycling should be presented equally and value free.
A “WtERT Knowledge Pool” may help local stakeholders to classify their problems and to lead them through the first steps of decision-making.

- Increase environmental awareness of waste problems
- Analyze the local current situation
- Get new ideas for setting rules for the implementation and the organization of waste management
- Inform about fees and taxes …
WₜERT Germany wants to pool the experience gained in the global WtERT organizations and their partners and offer it to stakeholders all over the world as a Decision Support System (DSS).

See steps to a respectable WₜERT - DSS:
WtERT partners bring together what is important in waste to energy…
WtERT partners present information of their country …

… from Denmark and maybe your country too!
Stakeholders want to get all \( W_t \text{ERT} \) information >>> “\( W_t \text{ERT} \) Knowledge Pool”!.
WtERT offers information and free knowledge on Waste to Energy for stakeholders all over the world.

WtERT Cooperation Partners get:

- Reliable feasibility to post knowledge and products
- Contact to prospective customers
- First pull on discussion
- Space for branding (Advertise Banner)
- Online reputation for their experts
- Business opportunities

Under monitoring of GWC
All WₜERT organizations offer information and knowledge on Waste to Energy for stakeholders.

Local WₜERT organizations:

- Increase the speed of knowledge transfer
- Widen the diversity of waste management solutions
- Help local stakeholders to push better solutions and create sustainable resource management
- Making business for all the partners
Full implemented of the WtERT Knowledge Pool” can help local stakeholders

Let us work together to develop it fully implemented

➢ and contact: bauer@wtbert.eu
WtERT Germany’s bridge to Africa

Prince Asfa-Wossen Asserate and WtERT Germany conclude a contract in order to gather information about countries

Prince Asfa-Wossen Asserate, Ethiopian-German executive consultant and WtERT Germany conclude a contract in order to gather information about countries and specialist expertise dealing with the subjects of "Waste to Energy" and "Resources" as well as to gain appropriate experts and project partners in different African countries for the exchange of knowledge.

As a member of WtERT Council (Waste-to-Energy Research and Technology Council) WtERT Germany GmbH considers its special task in identifying outstanding professional examples of various implementations of the Waste-to-Energy idea and to provide a broad basis for bundling expertise and experiences. To demonstrate that the Waste-to-Energy idea offers valuable solutions in all levels of waste and resource management the sections of landfill, incineration and recycling are next to one another in a neutral position – other than known from the common waste hierarchies.

The picture below shows Prince Asfa-Wossen Asserate, Professor Martin Faulstich, the founder of WtERT Germany and Werner Bauer Vice President of GWC at the expert conference "Product Stewardship", which was performed in cooperation with ATAB, the professional association of Bavarian operators of thermal waste utilization this month in Ingolstadt, Germany.
Study tour organized by WtERT Germany

WtERT Germany will guide a delegation of high-ranking representatives of the “Federation of Thai Industries” to the waste utilization plant in Ingolstadt and to the fermentation plant in Warngau on 7th October.
The study tour for 17 high-ranking representatives from Thailand will be organized by WtERT Germany together with BEKON on request of the “Federation of Thai Industries”. The study tour aims at enabling the exchange of knowledge in the field of “waste-to-energy” and disseminating German technologies in Thailand. For this reason the waste utilization plant in Ingolstadt and the fermentation plant in Warngau will be visited. To complete this topic a representative from CONVAERO GmbH will give a paper on “drying technologies”. Members of this tour will be CEOs of two Thai companies, managing directors of three Thai companies and the director and two vice chairman from “The Institute of Industrial Energy” of the “Federation of Thai Industries”.

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Cooperation Agreement – with the WtERT Community

between

Confederation of European Waste-to-Energy Plants - CEWEP

OPERATION COSTS
The Cooperation Partner shall contribute to the operation costs of the WtERT community by paying a net fee of:

net EUR 1.000 /annum plus 19% MwSt. = 1.190 EUR/annum

by money order. The provider will bear all costs for bank charges or costs for the transfer and additional tax.

This Cooperation Agreement is valid for the period of 12 months. An invoice shall be issued at the beginning of the contractual period, in case of a renewal of this agreement; the invoice shall be issued at the beginning of the contractual year.
SUBJECT MATTER OF THIS AGREEMENT
To this end,
Confederation of European Waste-to-Energy Plants - CEWEP
(herin after: “Cooperation Partner”)
and
WtERT Germany GmbH
conclude the following cooperation agreement:

SCOPE OF COOPERATION
Duties of the Cooperation Partner:
The Cooperation Partner shall provide and be responsible for the information submitted on
the topics:
“Energy Recovery & Climate Protection”, “Climate Protection” and “Circular Economy”