Waste Management
in the Czech Republic

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  - Waste Management Plan
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- Envibase – Czech environmental technologies database
Data of the Czech Republic

- Area: 78,866 km²
- Population: 10,505,445 inhabitants
- Regions: 13 Regions, 1 Capital city of Prague
- Municipalities with extended Responsibility: 206
- Municipalities: 6,251
Waste Management

- One of the highest priorities of MoE
- A dynamically growing sector
- Comprehensive European and National legislation
The waste hierarchy:
1) waste prevention,
2) preparation of waste for re-use,
3) recycling of waste (material recovery),
4) other recovery (e.g. energy recovery),
5) the disposal of waste
Czech WM legislation

- **Act No. 185/2001 Coll., on Waste**  
  - basic law of waste management

- **Act No. 477/2001 Coll., on Packaging**

- **Government regulation** – Waste Management Plan

- **Decrees** – List of Waste, Conditions of landfilling etc.
Waste Management Plan

- Main strategic document – targets, principles, measures, indicators.

- Current WM plan was adopted in 2003 (Government regulation) for 10 year period (2003-2013).

- Last year it has been extended until the end of year 2014.

- Development of the new Waste Management Plan of the Czech Republic for the period 2015–2024 is now in progress.
Waste Prevention Programme

• Article no. 29 Waste Framework Directive.
• Requirement for member states.
• New strategic document.
• Analysis.
• Targets.
• Measures.
• Indicators.
Czech WM Authorities

- Ministry of the Environment
- Czech Environmental Inspectorate
- Regions
- Municipalities (communal environmental offices)
- Ministry of Health
- Ministry of Agriculture
- National Hygiene Offices
- Czech Trade Inspection
- Customs Administration
- Police
# Data of Waste Management

<table>
<thead>
<tr>
<th></th>
<th>Production</th>
<th>Recovery</th>
<th>Recycling</th>
<th>Energy recovery</th>
<th>Landfilling</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Waste 2010</strong></td>
<td>32 mil. tons</td>
<td>74 %</td>
<td>71 %</td>
<td>2,8 %</td>
<td>14 %</td>
</tr>
<tr>
<td><strong>Total Waste 2011</strong></td>
<td>31 mil. tons</td>
<td>78 %</td>
<td>75 %</td>
<td>3,3 %</td>
<td>13 %</td>
</tr>
<tr>
<td><strong>Total Waste 2012</strong></td>
<td>30 mil. tons</td>
<td>79 %</td>
<td>76 %</td>
<td>3,5 %</td>
<td>13 %</td>
</tr>
</tbody>
</table>
## Data of Waste Management

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</thead>
<tbody>
<tr>
<td><strong>Municipal Waste 2010</strong></td>
<td>5,36 mil. tons</td>
<td>33 %</td>
<td>24 %</td>
<td>9 %</td>
<td>59 %</td>
</tr>
<tr>
<td><strong>Municipal Waste 2011</strong></td>
<td>5,39 mil. tons</td>
<td>42 %</td>
<td>31 %</td>
<td>11 %</td>
<td>55 %</td>
</tr>
<tr>
<td><strong>Municipal Waste 2012</strong></td>
<td>5,19 mil. tons</td>
<td>42 %</td>
<td>30 %</td>
<td>12 %</td>
<td>54 %</td>
</tr>
</tbody>
</table>
Municipal Waste (MW)

Production of municipal waste:
• 5,2 mil. tons
• 494 kg per capita /year

• The proportion of recovered municipal waste: 42 % (recycling 30 %, energy recovery 12 %)

• MW disposal by landfilling: 54%
Waste Management

Recycling  Energy recovery  Waste disposal
Waste Management - Treatment

Czech Capacities:

LANDFILLS
- InertW.........................31
- HazW/Combined..........26
- Non-HazW...............148

INCINERATION
- MunicipalW.................3
- HazW..........................28

CO-Incineration
- Cement Kilns..............5
Energy recovery of municipal waste

- SAKO Brno
  - 240,000 tons/year

- ZEVO Praha Malešice
  - 310,000 tons/year

- TERMIZO Liberec
  - 96,000 tons/year
Location of Energy recovery installations (MW)
Waste management - Treatment

FACILITIES mainly for Haz W:

- Solvent Regeneration ..........4
- WasteOil Rafination..........14
- Biodegradation ..................95
- Biodecontamination..........51
- Solidification Units..........16
Waste management - Treatment

FACILITIES mainly for BIO-waste/biomass:

- Composting plants........................................239
- Comunity composting.................................52
- Biogas powerplant stations.......................326
- Biogas Waste Stations...............................10
Municipal waste fees

1. **Local fee** (according to Act on Local Fees) for operation of a system of collection, which is mostly implicated transport, separation, recovery and disposal of municipal waste - limited by 40 € per inhabitant/year.

2. **An optional fee for municipal waste according to Act on Wastes** - fee is not limited.

3. **Payment made on a contractual basis** between the municipality and the inhabitant - there is no upper limit for this payment.
European funds

• Operational Programme Environment 2007 – 2013
  - 520 mil EUR for waste management

• Operational Programme Environment 2014 – 2020
  - prevention, material and energy recovery and reducing hazardous waste properties
Challenges

• The Czech Ministry of the Environment is actually preparing a complex reform of the waste legislation.

• This reform includes the elaboration:
  • new Waste Management Plan,
  • new Act on Waste and
  • new Act on WEEE, Batteries, Tires and ELV.

• Fulfill the EU targets on diversion of biodegradable MSW landfilled by 2013 and 2020.

• Significant effort in the Czech Republic to fulfil the EU 50% recycling target by 2020.

• Reduction of landfilled waste (ban on landfilling of residual mixed municipal waste and other defined wastes from 2025).
Search for additional information and Czech companies that would suit your interests

• Visit us at:


(Database of providers of Czech environmental technologies and services)

• Contact us
  - CENIA, Czech Environmental Information Agency (www.cenia.cz)
  - Czech Hydrometeorological Institute (www.chmi.cz)
  - Water Research Institute of T. G. Masaryk (www.vuv.cz)
  - Agency for Nature Conservation and Landscape Protection of the CR (www.nature.cz)
  - Czech Geological Survey (www.cgu.cz)
Thank you for your attention!

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