





Waste Management in the Czech Republic

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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
- Municipalities6251





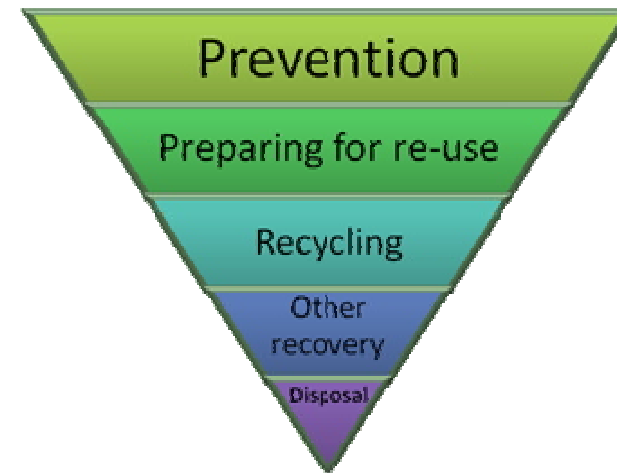
Waste Management

- One of the highest priorities of MoE
- A dynamically growing sector
- Comprehensive European and National legislation



Waste Management

Waste Framework Directive 2008/98/EC



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

	Production	Recovery	Recycling	Energy recovery	Landfilling
Total Waste 2010	32 mil. tons	74 %	71 %	2,8 %	14 %
Total Waste 2011	31 mil. tons	78 %	75 %	3,3 %	13 %
Total Waste 2012	30 mil. tons	79 %	76 %	3,5 %	13 %



Data of Waste Management

	Generation	Recovery	Recycling	Energy recovery	Landfilling
Municipal Waste 2010	5,36 mil. tons	33 %	24 %	9 %	59 %
Municipal Waste 2011	5,39 mil. tons	42 %	31 %	11 %	55 %
Municipal Waste 2012	5,19 mil. tons	42 %	30 %	12 %	54 %





Municipal Waste (MW)

Production of municipal waste:

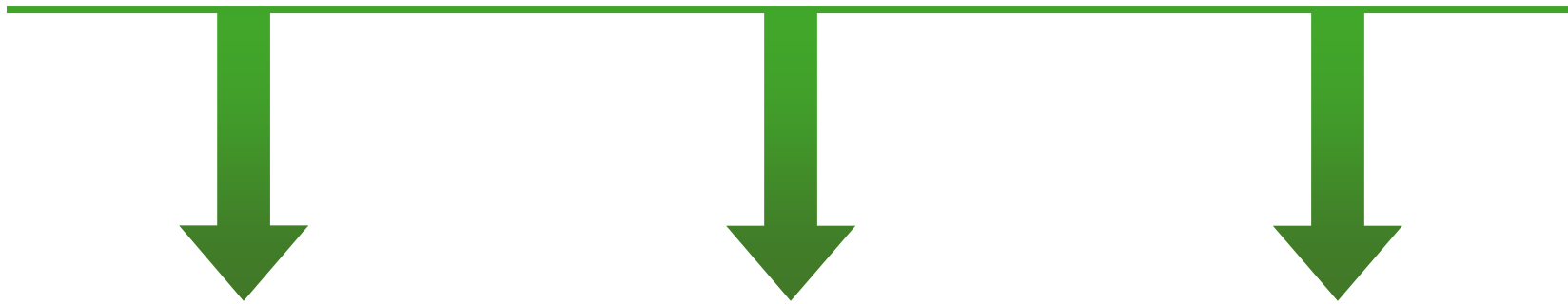
- 5,2 mil. tons
- 494 kg per capita /year

- 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)



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Waste management - Treatment

FACILITIES mainly for Haz W:

- Solvent Regeneration4
- WasteOil Rafination.....14
- Biodegradation95
- Biodecontamination.....51
- Solidification Units.....16





Waste management - Treatment

FACILITIES mainly for BIO-waste/biomass:

- Composting plants.....239
- Community 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:**

www.mzp.cz/en/envibase_en

(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)



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**Thank you for your
attention!**

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