

Prevention, recycling and disposal of waste from the medical area

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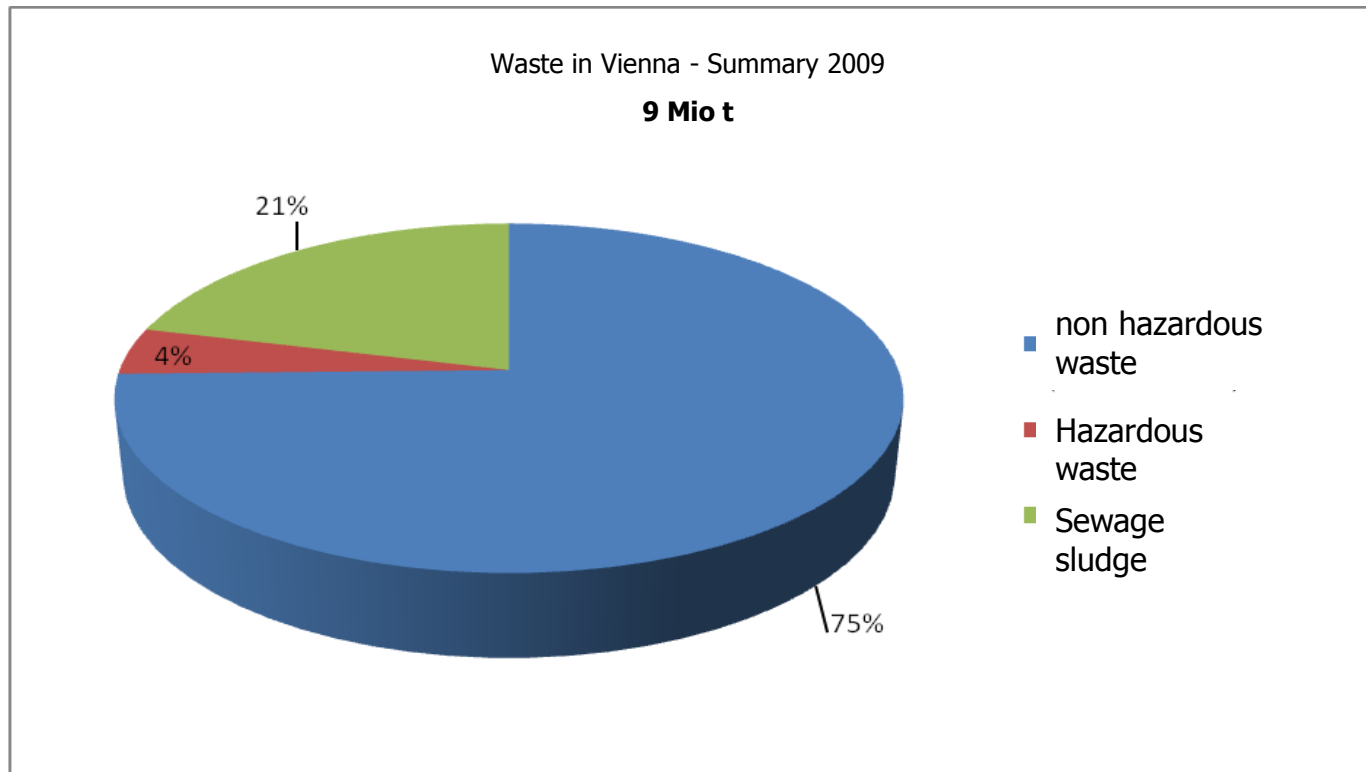
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Amount of waste in Vienna 2009





Principles in following order

- Waste prevention
- Preparation to the re-use
- Recycling (materially)
- Other utilisation (energetically)
- Disposal



Disposal of waste in Vienna

Waste incineration plants

- FWW factory Simmeringer Haide (80,000 t)
- MVA-Flötzersteig (200,000 t)
- MVA-Spittelau (250,000 t)
- MVA-Pfaffenau (250,000 t)

Landfill

- Rautenweg

Separating plant

- Rinterzelt



Simmering



Pfaffenau



Spittelau



Rinterzelt



Rautenweg



Flötzersteig

Basic division of waste from the medical area



- Non hazardous waste
- Hazardous waste only within the medical area
- Hazardous waste



Hazardous waste in the medical area

The danger of currency depends on the

- kind of the pathogens
- survivability
- transmission path
- dimension and the kind of contamination
- amount of the waste



Diseases 2012 in Austria (for example)

■ Brucellosis	1
■ Q-fever	0
■ Glanders	0
■ Tuberculoses (active form)	687 (2011)
■ Psittakosis/Ornithosis	0
■ Cholera	1
■ Leprosy	0
■ Anthrax	0
■ Paratyphoid A, B, C	7
■ Plague	0
■ Tularämia	2
■ Abdominal typhus	6



Waste classification

Division in 5 waste categories

- **Category I** - with hazardous pathogens afflicted, risk of injury and wet waste
- **Category II** – other non hazardous waste of the medical area
- **Category III** – hazardous waste (except medical waste)
- **Category IV** – municipal waste
- **Category V** - materials for recycling



Waste category I

Description:

- with hazardous pathogens afflicted, risk of injury and wet waste

Collection:

- Black boxes, tight for pathogens and liquids

Carriage:

- Transporting companies with special permissions

Disposal:

- Incineration plant for hazardous waste



Waste category II

Description:

- non hazardous waste of the medical area like nappies, bandages, swabs etc.

Collection:

- Orange bags (and „Sharps“)

Carriage:

- Municipal waste company of the city of Vienna

Disposal:

- Incineration plant for municipal waste



Waste category III

Description:

- Non medical hazardous waste like chemicals, drugs, batteries, lamps etc

Collection:

- Solid waste: containers, liquid waste: canisters

Carriage:

- Transporting companies with special permissions

Disposal:

- Incineration plant for hazardous waste or recycling if possible



Waste category IV

Description:

- Municipal waste from kitchen, offices, schools etc.

Collection:

- Gray bags

Carriage:

- Municipal waste company of the city of Vienna

Disposal:

- Incineration plant for municipal waste or landfill



Waste category V

Description:

- Materials for recycling like paper, glass, cardboard, metal, plastic, biogenic waste etc.

Collection:

- Container with different colors

Carriage:

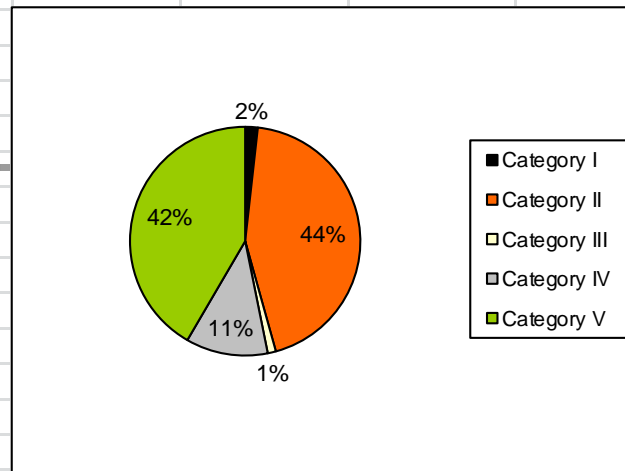
- Municipal waste company of the city of Vienna

Disposal:

- Recycling (material, energetic)

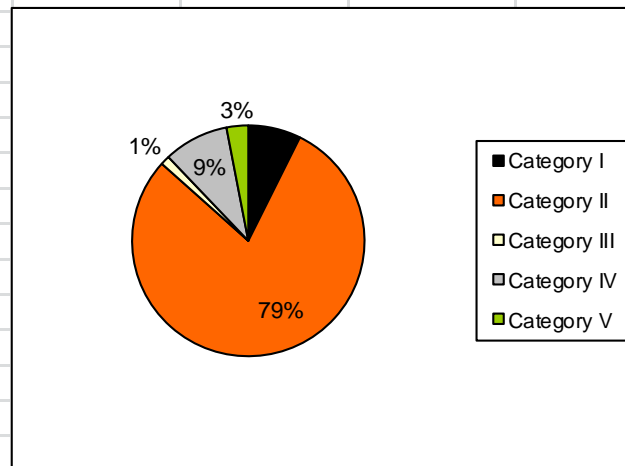
Waste amount summary 2014 (tons)

Category I	380
Category II	9500
Category III	250
Category IV	2490
Category V	9000
Summary	21620



Waste cost summary 2014 (Euro)

Category I	340000
Category II	3680000
Category III	60000
Category IV	420000
Category V	140000
Summary	4640000





Thank you for your attention and have a good time