

VRBAS, Serbia

City Information

Population: Vrbas with populated places has 42.092 inhabitants. Vrbas itself has 26.248 inhabitants.

Area (km²): 376 km². 33,989 ha of agricultural land and 124 ha of forest land.

Climate: Severe continental climate with long, warm and dry summers, and cold, severe and long winters.

Main Economic Activities: agricultural and food industry

City website: www.vrbas.net



Country Information

Population: 7,186,862 inhabitants according to the 2011 census.

Area (km²): 88.361 km²

Economy and GNI/Capita: Upper middle income economy (\$3,896 to \$12,055)

Main Economic Activities: The largest sector of the economy is the services sector / tertiary sector (63.8% of GDP), followed by industry (23.5% of GDP) and agriculture (12.7% of GDP).

Government Agencies responsible for guidance on waste legislation:

Environmental Protection Agency. <http://www.sepa.gov.rs/>

MSW Sector Overview: City Level

Classification of MSW

- According to the purpose: biodegradable and recyclable
- According to the place of origin: communal, commercial, waste from the wastewater treatment plant

MSW Generation

13,000 tons/year; 309 kg/per capita; 0.84 kg per capita per year

Collection Coverage and Type

- 94% of waste is officially collected.
- Primary separation is performed only for PET packaging (containers are placed for collective housing and plastic bags are distributed to individual households).

Waste Composition

- About 25% of the materials can be recycled such as: plastic, paper, metal, glass, rubber;
- About 50% is biodegradable waste;
- About 25% is a remnant like textile, various composite materials, inert – construction materials, etc.

Waste Management Practice

The landfill is non-sanitary, fenced, and has a ramp. The composition is controlled and the amount of waste going to the landfill is controlled (the amount is relative - based on the vehicle's dimensions). There is no scale. Partial selection of secondary raw materials is carried out by contracted company. The disposal of waste is partially controlled - depressions are filled at the landfill and are covered by layer of soil partly.

Formal Waste Sector

Public Utility Company "Komunalac" Vrbas collects and the transport the waste and is the owner of the non-sanitary landfill.

Recycling Rate

The primary selection of PET packaging is performed. There are containers in front of each building and plastic bags are shared with households. Collected quantities are pressed and as such transported to an authorized recycler.

Waste management of Organic fraction (composting, anaerobic digestion)

There are ongoing activities that will result in the construction of a compost. The beginning of the compost is planned for 2020.

Informal Waste Sector

- There are no informal waste collectors on the landfill. There is a contract with a company that is registered for the collection and transport of waste so the employees of that company select the waste at the landfill.
- There are informal collectors in the city, but there is no precise data.

Energy Recovery Rate

None.



Financing of MSW

- *National and foreign funds*
- *Grants*
- *Budget of the Municipality of Vrbas*
- *Budget of the Environmental Protection Fund*
- *Funds are provided through the Republic's Environmental Pollution fee and local fee for the protection and improvement of the environment.*

Waste Management Challenges

Lack of capacity, both material and human.

Technical Assistance

Strengthening the capacities of the municipality through various types of training, seminars and various advisory assistance.

City Level

Aimed at improving Waste Management in General

- *Local Waste Management Plan*
- *Regional Waste Management Plan*
- *Strategy of economic development of the municipality*



Aimed at addressing Climate change and reducing SLCPs through waste related activities

Country Level

Aimed at improving Waste Management in General

Waste Management Strategy 2010-2019

Aimed at addressing Climate change and reducing SLCPs through waste related activities

Legislation

City Level

Legislation governing MSW management

- *Municipal Waste Management Plan*
- *Municipal Decision on Waste Management*

Guidance for MSW management (after legislation, before inspection activities)

- *Local Waste Management Plan*
- *Regional Waste Management Plan*
- *Waste Management Plan of PUC "Komunalac" Vrbas*

Inspection activities/supervision and enforcement of legislation

- *Supervision of municipal waste management at the local level is foreseen by Decision on performing of communal activities*
- *Local environmental inspection in accordance with the Law on Waste Management*

National Level

Legislation governing MSW management

Law on Waste Management

Guidance for MSW management (after legislation, before inspection activities)

- *Waste Management Strategy 2010-2019*
- *Regional Waste Management Plan*

Inspection activities/supervision and enforcement of legislation

Republic Inspection for Environmental Protection

Current Projects or Activities Aimed at Reducing SLCP Emissions

- *Vrbas Municipality is currently participating in the project "Energy Efficiency and Energy Management Project in municipalities in Serbia". The project is a donation of the Swiss Government in the amount of 1.600.000,00 francs. The construction and energy rehabilitation of eight facilities (4 kindergartens and 4 schools) is covered by this project. Among others, this project will affect the reduction of the greenhouse effect, i.e. CO2 emissions.*
- *GIZ project "Waste management in the context of climate change" (GIZ DKT1)*
- *GIZ project "Implementation of biodegradable waste treatment at the regional level - composting plant", by which the Municipality of Vrbas will get a compost.*

Key Stakeholders

- *Citizens of the municipality of Vrbas*
- *The municipality itself as an institution, www.vrbas.net*

Additional Useful Information

[Include brief description/Title and weblink]

Contacts

Waste Initiative City Contact

Sanja Korac

Head of the Department for Environmental Protection and Energy Management

Email: sanja.korac@vrbas.net

Waste Initiative Country Contact

Municipal Waste Representative (if different from the city contact for the Waste Initiative)

Other Municipal Representative