



Republika e Kosovës/Republika Kosova/Republic of Kosovo  
*Qeveria - Vlada - Government*  
Zyra e Kryeministrit -Ured Premijera -Office of the Prime Minister  
*Agjencia e Statistikave të Kosovës - Agencija za Statistiku Kosova -  
Statistical Agency of Kosovo*

## Series 2: Agriculture and Environment Statistics

# Survey on Industrial Waste 2010



ENTI I STATISTIKËS SË KOSOVËS  
ZAVOD ZA STATISTIKU KOSOVA  
STATISTICAL OFFICE OF KOSOVA





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## **P r e f a c e**

This is the first time that Statistical Agency of Kosovo organized a survey on industrial waste.

The main objective of this survey was to provide data on waste from industrial sector in Kosovo. The result presented in this publication present a first source of information on waste from industrial sector in Kosovo.

The statistical instrument used during this survey is in line with Regulation (EC) No 2150/2002 of the European Parliament and the Council of 25 November 2002 on waste statistics, European list of Waste and the Law on Waste in Kosovo, (No.02/L-30) designed according to European Union Regulations.

Special acknowledgement goes to Statistics Sweden for offering its the technical assistance, as well as to Sida for its support.

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December 2011

Chief Executive of, SAK  
Mr.Isa Krasniqi

## Abbreviations and Acronymus

### Abbreviations and Acronyms

EU	European Union
ASK	Statistical Agency of Kosova
MMPH	Ministry of Environment and Spatial Planning
KEPA	Kosovo Environment Protection Agency
SIDA	Swedish International Development Cooperation Agency
NACE Rev.1.1	Classification of Economic Activities in the European Union
EWStat Classification	European Waste Statistics Classification
DSBA	Department of Agriculture and Environment Statistics
DPSIR	Driving Forces, Pressure, State, Impact and Respons
OECD	Organisation for Economic Co-operation and Respons
EEA	European Environment Agency

### Key to Symbols

t	Tonne
%	Percent

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## **General Information**

The survey on industrial waste in Kosovo was conducted according to NACE Rev.1.1 which is international classification on industrial sectors. The waste was classified as hazardous and non-hazardous according to list of waste.

Reporting units are all companies with seven or more employees. Also a random sample from the population of smaller companies with less than seven employees or companies that didn't state their number of employees in the business register were included. The companies included are classified by NACE Rev.1.1 into the following activity sectors mining and quarrying (C), manufacturing industry (D) and Electricity (E).

This is the first full scale survey on waste from industry in Kosovo. It is the first year of publishing data on waste generation in tonnes from production activities for reference year 2010, non-hazardous waste and hazardous waste.

## **1. Objectives and methodology of survey**

### **1.1 Objective**

The aim of the survey on industrial waste 2010 was to obtain, data on waste from industry. The data was collected on waste generation and waste treatment.

Objective of the survey 2010 was to conduct full scale survey on industrial waste, from NACE groups C (mining and quarrying) D (Manufacturing) and E (Energy). The aim was also to conduct the survey according to demands of international requirements and the national's needs of Kosovo.

### **1.2 Methodology**

#### **1.2.1 The frame of the survey**

All the survey procedures were finalised during June 2011. The instrument of the survey was prepared in May 2011 in collaboration with Swedish experts.

Data collection period was July-August 2011 performed by face to face interviews.

The work plane was; preparatory phase, collection phase, data manipulation phase and publication phase.

During the preparatory phase following parts were conducted: questionnaire, survey sample, variables, time plane, manual for the interviewers, training of interviewers and construction of the database. The sample was prepared according to our statistical business register in two levels (sample 1 and 2). The training has been held one day in SAK, for all staff (seven regional offices) which has been engaged in the survey.

The prepared material was distributed to all regional statistical offices in Kosovo to insure complete coverage (according to sample survey).

The frame according to SAK-BR was 3635 companies in the examined sectors.

We have 311 (sample one, 172 and sample two, 139) companies that answered the industrial waste survey 2011 from total sample.

The sample one contained 432 companies with seven or more employees (total survey). Sample two contained 264 companies with the less than seven employees (sample survey).

### 1.2.2 Data collection

The data collection was completed through regional staff face to face interviews with the managers of the industrial companies operating in the respective region based on questionnaires (Annex 1).

All the questionnaires were checked for quality control by the staff of agriculture and environment department and follow up was done if needed.

## 2. Definitions

**Industrial waste:** waste generated by industry sector.

**Non-Hazardous waste;** waste which not pose any risk to the environment or human health.

**Hazardous waste:** is the waste which brings harm and danger to the society, which shows significant risk to human health or the environment, when not managed appropriately. Hazardous waste is flammable, corrosive, reactive or toxic. Hazardous waste – is waste that has at least one of the following characteristics:

- explosive, oxidant, flammable, irritating, pest, toxic, cancer, corrosive, infectious, teratogenic, mutagenic, releases, toxic gases in contact with water, air or an acid, is likely to produce other dangerous substance, and eco toxic
- Accordin to the Law on Waste in Kosovo, (No.02/L-30).

### 3. RESULTS

**Table 3.1: Total generated waste from industry sector (sample 1 and 2),**

Sample	Type of industry	Non-hazardous waste tonnes	Hazardous waste tonnes
1 and 2	C, D and E	580.154	36.241

Table 1: shows the estimated amount of waste generated from industrial sector in 2010. The amount of hazardous waste is more uncertain than non-hazardous waste.

Chart 3.1: Generated waste

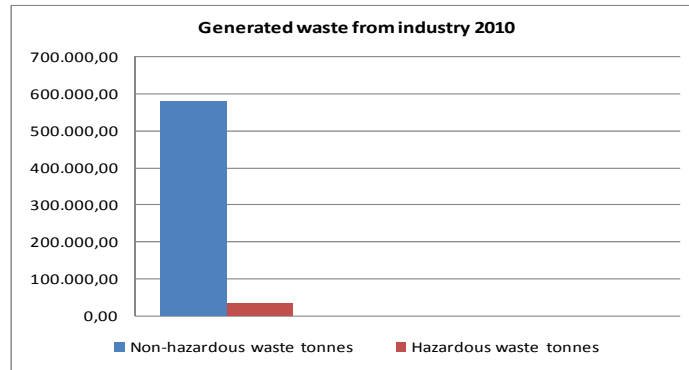
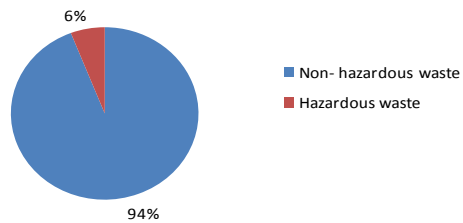


Chart 3.2: Total generated waste from industry, in percent (sample 1 and 2)

Structure of total generated waste from industry 2010



## 4. RESULTS, (sample 1)

Table 4.1: shows the highest amount of waste was generated in the section of manufacturing (D) 393 625 tonnes or 70 % of the total amount of generated waste (waste from sample one, 172 companies that answered the survey).

Table 4.1: Quantities of generated waste and hazardous waste, from companies with seven or more employees, corrected for non-response.

Type of industry	Generated waste tonnes	Hazardous waste tonnes
C- Mining and Quarrying	172.686	35.500
D- Manufacturing	393.625	699
E-Electricity, gas, steam and hot water supply	255	-
Total	566.566	36.199

Chart 4.1: Structure of waste from industry, according to companies with seven or more employees

Structure of generated waste (sample 1)

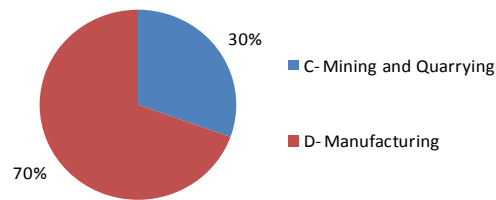
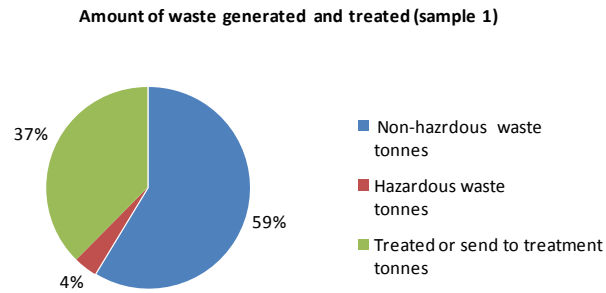


Table 4.2: Amount of waste generated and treated 2010, according to companies with seven or more employees (sample 1)

Year 2010	Non-hazrdous waste tonnes	Hazardous waste tonnes	Treated <sup>1</sup> or send to treatment tonnes
Total	566.566	36.199	363.242

Table 4.2: shows the amount of generated waste, was Non-hazardous waste or 59 % (chart 4.2)

Chart 4.2: Amount of waste generated and treated from industry 2010, in % (Sample 1)



<sup>1</sup>Treatment; includes physical and chemical, biological, thermal processes, including sorting, that change the characteristics of the waste in order to reduce its volume of harmful, nature, facilitate its handling or enhance recycling

Table 4.3: Generated waste 2011 by type of industry in production activity (sample 1)

Group	Type of industry	Generated waste Non-hazardous tonnes	Hazardous waste tonnes
14	Other mining and quarrying	172.686	35.500
15-16	<sup>1</sup> Manufacture of food products and beverages/ Manufacture of tobacco products	279.173	550
17-19	Tanning and dressing of leather; manufacture of luggage, handbags, .....	279	-
20-22	Publishing, printing and reproduction of recorded media	445	85
23-25	Manufacture of rubber and plastic products	3.451	-
26	Manufacture of other non-metallic mineral products	94.490	34
27-29	Manufacture of machinery and equipment n.e.c.	415	-
30-35	Manufacture of other transport equipment	-	-
36	Manufacture of furniture; manufacturing n.e.c.	47	30
37	Recycling	15.326	-
40	Electricity, gas, steam and hot water supply	11	-
41	Collection, purification and distribution of water	244	-
Total		566.566	36.199

Table 4.3: shows the highest amount of waste was generated in the section of manufacturing of food productions and beverages 279 173 tones or 49 % (waste from sample one, 172 companies that answered the survey).

<sup>1</sup> Manufacture of food products and beverages; NACE group 15 are included food industry and beverages in Kosovo

## 5 RESULTS (sample 2)

Table 5.1: Generated waste (sample 2, 139 enterprises that answered the survey) 2010

Type of industry	Generated waste tonnes	Hazardous waste tonnes
C- Mining and Quarrying	2.654	1,0
D- Manufacturing	10.934	40,5
E-Electricity, gas, steam and hot water supply	-	-
<b>Total</b>	<b>13.588</b>	<b>41,5</b>

Table 5.1: shows the highest amount of waste was generated in the section of manufacturing 10 934 tones or 80% of the total amount of generated waste (waste from sample two, 139 companies that answered the survey), 20 % was generated in section mining and quarrying.

Figure 5.1: Structure of waste from industry  
(Sample 2, 139 enterprises that answered the survey)

Structure of waste from industry 2010 (sample 2)

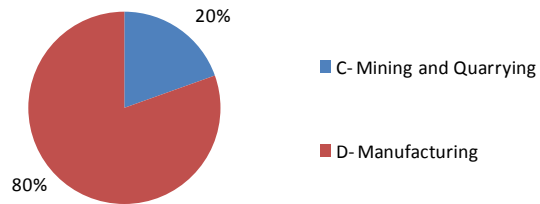


Table 5.2: Amount of waste generated and treated (sample 2)

Year 2010	Generated waste tonnes	Hazardous waste tonnes	Treated waste tonnes
Total	13.588	41,5	20.081

Chart 5.2: Amount of waste generated and treated from industry 2010, in % (Sample 2)

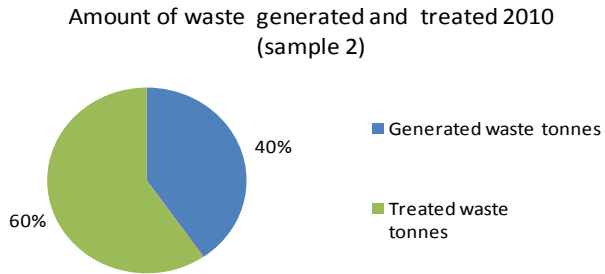




Table 5.3: Generated waste 2010 by type of industry in production activity, (sample 2, 139 enterprises that answered the survey)

Group	Type of industry	Non-hazardous waste tonnes	Hazardous tonnes
14	Other mining and quarrying	2.654	1,0
15-16	Manufacture of food products and beverages Manufacture of tobacco products	9.440	-
17-19	Tanning and dressing of leather; manufacture of luggage, handbags, saddlery, harness and footwear	211	-
20-22	Publishing, printing and reproduction of recorded media	37	-
23-25	Manufacture of rubber and plastic products	45	0,3
26	Manufacture of other non-metallic mineral products	344	-
27-29	Manufacture of machinery and equipment n.e.c.	16	0,2
30-35	Manufacture of other transport equipment	352	-
36	Manufacture of furniture; manufacturing n.e.c.	265	-
37	Recycling	226	40,0
40	Electricity, gas, steam and hot water supply	-	-
41	Collection, purification and distribution of water	-	-
<b>Total</b>		13.588	41,5

Table 5.3: shows the highest amount of waste was generated in the section of manufacturing of food productions and beverages 9 440 tones or 69 % (waste from sample two, 139 companies that answered the survey).

Annex 1. Questionnaire

# QUESTIONNAIRE

## Survey on Industrial Waste 2010

### IDENTIFICATION DATA

Bussines No

Fiscal No.

Name of bussines \_\_\_\_\_

Activity code : Nace Rev.1:

Aescription of economic activity:  
\_\_\_\_\_  
\_\_\_\_\_

Address: \_\_\_\_\_

Municipality \_\_\_\_\_

Place \_\_\_\_\_

Street \_\_\_\_\_

Building No. \_\_\_\_\_

Name of owner: \_\_\_\_\_  
(Name and Surname) Tel \_\_\_\_\_

E-mail: \_\_\_\_\_

Contact person: \_\_\_\_\_  
(Name and Surname) Tel \_\_\_\_\_

E-mail: \_\_\_\_\_

Day and time of survey:  Day  Month  Year \_\_\_\_\_ Time





## **Statistical Agency of Kosovo, a brief description**

**Statistical Agency of Kosovo (SAK)** is a professional office operating since 1948. The SOK passed through some of the historic phases and it has been structured by the state rule of that time. SOK restarted its work on August 2, 1999, as an independent and professional office working in the frames of the Ministry of Public Administration (MPA). Since 12.12.2011 the Agency operates in the frames of the Prime Minister's Office. SOK is financed by the Kosovo Consolidated Budget and by donors for the various projects.

**Statistical Agency of Kosovo** acts according to the Law No. 04/L-036 which entered into force on 12.12.2011. A medium-term Master Plan is being developed for the statistical system of Kosovo compatible with the European Statistics.

**SAK Mission** is to fulfill the needs of the users with the reliable statistical data and with regular analyses in order to support and provide government departments with the proper information for decision-making process including other users as well.

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