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AGJENCIA PËR MBROJTJEN E MJEDISIT TË KOSOVËS
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KOSOVO ENVIRONMENTAL PROTECTION AGENCY

REPORT ON MUNICIPAL WASTE MANAGEMENT IN KOSOVO

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REPORTING YEAR 2020



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ABBREVIATIONS

AI	Administrative Instruction
AKM	Association of Kosovo Municipalities
C&D	Construction and Demolition
CV	Commercial Waste
EU	European Union
GIZ	Deutsche Gesellschaft für Internationale Zusammenarbeit
JICA	Japan International Cooperation Agency
KAS	Kosovo Agency of Statistics
KEPA	Kosovo Environmental Protection Agency
KLMC	Kosovo Landfill Management Company
LEP	Law on Environmental Protection
MESPI	Ministry of Environment, Spatial Planning and Infrastructure
MRWM	Municipal Regulation on Waste Management
MW	Municipal Waste
MWMP	Municipal Waste Management Plan
PAMKOS	Association for Environmental Protection and Clean-up of Kosovo
PC	Private Companies
RL	Regional Landfill
RWC	Regional Waste Company
VW	Voluminous Waste
WL	Waste Law
WMPRK	Waste Management Plan of the Republic of Kosovo
WMSRK	Waste Management Strategy of the Republic of Kosovo

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INTRODUCTION

1.1. Aim of the Report

Preparation of reports on the state of municipal waste management in Kosovo is a direct responsibility of the Kosovo Environmental Protection Agency (Waste Law, Article 14, paragraph 1.8). This report aims to provide a ground of solid and comprehensive insights on municipal waste management in Kosovo. Data presented in this report, whether for individual municipalities or at the regional level, provide a clear overview of the state of waste management, trends, issues, and planning for the future.

Data offered in this report can be used to orientate the municipal waste management policies for improved and implementable planning at the central government level, and especially by the local government level.

Approval of the Waste Management Strategy of the Republic of Kosovo (2021-2030) and the Waste Management Plan of the Republic of Kosovo (2021-2023) enabled an accelerated approach for the achievement of the strategic objectives, which altogether will play an important role in the aspect of an improved economy and living standard. The said objectives were designed in the light of development and improvement of services and infrastructure for integrated waste management, growth, and advancement of the waste recycling sector, an increase of oversight of the responsibilities and implementation aspects, and promotion of best practices regarding the importance of circular economy.

At the municipal level, too, there is an encouraging approach concerning prioritizations within the framework of environmental policies, as waste management has seemingly is gaining special attention. Several municipalities have revised their municipal waste management plans, whereas others are awaiting the expiration of the existing five-year plans to move forward. Improvements have been noted in the removal of illegal dumpsites and the trends are very positive. There is increased activity in expanding the services for households and other clients, just as an increased readiness from the municipalities' side to get engaged in the implementation of various projects with the aim of improving the situation in this field depending on their financial capacities.

It must be emphasized that thanks to close cooperation between KEPA, GIZ, and the Association of Kosovo Municipalities (AKM), this report comprises data from 36 municipalities across the country. Such cooperation was closely interrelated with the Municipal Grant Performance "Clean Environment" (2018-2020) which provided the municipalities various financial support depending on their performance in accomplishing indicators in the field of waste management.

There are positive signals from donors, such as EU, GIZ and JICA regarding the extension of support in the field of waste management. The investments will be both direct and indirect, *i.e.* through the development of professional capacities, training, research, and other aspects of technical assistance. Whatsoever, investments in larger projects anyways require comprehensive analysis and they should be grounded on the Waste Management Strategy and the respective plan of the Republic of Kosovo.

In closing, the report interprets the findings in a way that policymakers at both, the local and central levels, could use for planning purposes in the future.

The report contains data for the 2020 reporting year employing the methodology of comparing the data with preceding years.

1.2. Scope of the Report

The Report among others covers compliance legislation and implementation of planning documents, information about the state of solid non-hazardous waste produced in the Republic of Kosovo, including municipal waste (MW) generated by households, commercial waste (CW), *i.e.* the waste generated by businesses and educational institutions and government institutions, waste generated by construction and demolition (C&D) – meaning the waste generated by construction and demolition activities of households and businesses, voluminous waste (VW) generated by households and businesses.

The content of this report provides an actual overview of the state of the municipal waste management, including compliance with legislation, coverage of waste collection and transportation service, billing and fee collection, identification of illegal dumpsites, amount of municipal waste generated and disposed disaggregated by municipalities, data about the initiatives of individual municipalities for separation of waste at source, and cost-effectiveness of municipal waste management.

1.3. Data collection methodology

KEPA has made necessary preparations before the reporting date (31 March 2021). With the support of GIZ and in cooperation with the Association of Kosovo Municipalities (AKM) and the licensed waste collection and transportation companies, a series of meetings were held to discuss the format, procedure, and due date for 2020 municipal waste management reporting.

The data presented in this report were taken from the reports of 36 municipalities, licensed regional waste collection companies (RWC), regional landfill (RC) management companies, and the Kosovo Agency of Statistics (KAS). KEPA in cooperation with municipalities and RWCs conducted data assessment and validation through a well-administered process.

This is the third year in a row that the above mentioned stakeholders are employing a reporting format developed by KEPA with the purpose of standardized reporting.

This report was compiled using the data by:

- Municipalities through municipal officers responsible for waste management;
- Waste collection and transportation operators (RWCs, MCs, etc.);
- Landfill management companies (KLMC, RWCs, etc.);
- Kosovo Agency of Statistics (KAS).

To validate the accuracy of data reported by individual municipal and companies, such as the number of households served, fee collection rate, amount of waste generated and disposed of, access to infrastructure for separation at source, compliance with legislation in place, etc., necessary

documentation was requested from municipalities and operators. These documents included financial statements, billing registers, reports on quantities of waste disposed, photographs and coordinates of illegal dumpsites, contracts, etc.

Data reported on illegal dumpsites have been verified through field visits conducted to selected locations in all municipalities across the country during April 2021. Then the data reported were inserted in the KEPA's standardized reporting forms.

The whole verification and data validation process of the said documentary evidence was conducted by a MESPI technical group. Occasionally, assessments were completed and the results of the 2020 municipal waste management report were extracted. KEPA has forwarded the draft report to the municipalities to review it once again and avoid eventual errors in reporting the data processed.

KEPA shared the preliminary report for further consideration with the municipalities and subsequently received several objections, which afterward were incorporated by the technical group in the final report promptly.

2.0. MUNICIPAL WASTE MANAGEMENT LEGAL FRAMEWORK IN KOSOVO

The basic law that regulates the field of municipal waste management in Kosovo is Law Nr. 04/L-060 on Waste, based on which a total of 45 Regulations and Administrative Instruction were approved about specific fields of waste management. Those directly related to municipal waste management are the following: Administrative Instruction (GRK) No.08/2017 On Management of Waste Storage Management, Administrative Instruction (GRK) No. 06/2016 On Conditions for Selecting the Location of The Waste Landfill Construction, Administrative Instruction No.15/2012 On Waste Landfills Management, Administrative Instruction, MESP - No. 06/2018 On Penalties with Mandatory Fines, Administrative Instruction MESP – No 29/2014 On Sludge Management By Treatment Of Polluted Waters, etc.

The purpose of this law is to prevent and reduce the generation of waste, reuse of useable waste components, sustainable development through preservation and protection of natural resources, prevent the negative impact of waste on the environment and health, as well as final disposal of waste in an environmentally acceptable manner.

As far as classification and categorization of waste are concerned, municipal waste is the leading sort defined and treated legally.

Waste planning and management are conducted through:

- Waste Management Strategy of the Republic of Kosovo
- Waste Management Plan of the Republic of Kosovo
- Municipal Waste Management Plans
- Waste management plans of Waste Owners, and
- Waste Management Plans of Licensed Persons

Approval of the Waste Management Strategy of the Republic of Kosovo (2021-2030) and the Waste Management Plan of the Republic of Kosovo (2021-2023) enabled an augmented pace for the achievement of the strategic objectives, which altogether will play an important role in the aspect of an improved economy and living standard. The said objectives were designed in the light of the development and improvement of the situation in this field.

Stringent to Article 10. of the Law on Waste, WMPRK, and MWMP for waste management are issued by the Ministry and the individual municipalities respectively for 5 years, with the possibility of review, whereas the content of these documents is decisively defined in paragraphs 6. and 7. of Article 10.

3.0. MUNICIPAL WASTE MANAGEMENT IN KOSOVO

3.1 Current situation

Based on KEPA periodic field monitoring aimed to assess the situation with the environment, and findings deriving from the collection and procession of data used for waste management reporting (municipalities, licensed municipal waste management operators, company for management of landfills in Kosovo, and other inputs) we can say that the current situation with municipal waste management calls for extended activism and well-planned approach.

Despite the progress noted year by year there are relatively evident differences between both, certain municipalities and regions respectively when it comes to the environmental situation, which is affected due to inappropriate management of waste.

In general terms, a notable improvement was noted country-wide regarding the removal of illegal dumpsites resulting from the commitment of municipalities to clean up certain locations. In addition to this, there was an increase of municipal inspection activities for environment protection through municipal inspectorates, which on some occasions was coupled with placement of signs indicating prohibition of waste disposal.

Referring to the inputs received from the reports of municipalities and licensed operators, we have conducted a proper analysis which included the entire waste cycle, starting from production up to their final treatment, and based on the figures we were able to note an improvement of indicators. Disposal of most of the generated waste in sanitary landfills remains a major problem.

There is a lack of appropriate initiatives at the local or national level, indicating concrete actions towards a circular economy. Only 7 municipalities have a certain degree of access to waste separation at source infrastructure.

The environmental situation at the sanitary landfills is deteriorating year by year, primarily due to inappropriate management, lack of rehabilitation investments, excessive waste intakes, failures with integrated licensing, etc.

However, despite the aggravated circumstances resulting from the COVID-19 epidemiologic situation, several positive results were noted during 2020 in certain indicators. More specifically, waste collection service coverage recorded a 7% increase compared to 2019, thus tallying 85% at the national level. Compliance with legislation, too, recorded an 8% increase. On the other hand, there was a decrease in terms of fee collection by 3% compared to 2019, and an increase by 3% regarding generation, or a 2.5 kg increase per capita.

As far as municipal infrastructure to treat special waste is concerned, such as animal, medicine, construction, or voluminous waste, report data and subsequent analysis by KEPA indicate that this kind of waste is not treated. Having said that, municipal waste management remains a challenge for municipalities, consequently, there is a need to explore new ways of increasing the cooperation and coordination of activities with the institutions at the central level and vice-versa, just as the need to increase cooperation with various donors so as to augment investments through sustainable waste management projects.

3.2 Municipal waste generation

The procession and analysis of records received from municipalities and RWCs ensured us a solid database for the generation of reliable findings related to municipal waste generation for 2020.

It should be emphasized that, just as was the case in previous years, the data received for this reporting year are insufficient to ensure a full overview of the waste composition, neither in individual municipalities or regions nor in providing disaggregated data on the amount of waste generated in rural or urban areas.

Nonetheless, relying on the data provided through reports of municipalities and the licensed operators, based on the total amount generated it was possible to calculate an average waste generation per capita at the municipal, regional, and country-level.

Hence, based on the total amount of waste generation reported and taking into consideration the number of inhabitants covered by service, we could calculate the daily waste generation norm per capita, which at the country level indicates 0.74 kg/inhabitant/day.

Therefore, taking into account the country's overall population of 1.779.521 residents (as per 2011 census and estimated population of North Mitrovica, Leposaviq/Leposavić, Zubin Potok, and Zvečan/Zvečane) and the annual amount of municipal waste per capita (which is estimated at 0.74 kg/inhabitant/day), the overall amount of waste generated tons to be approximately 480,648.62 tons/year.

Comparing the waste generated in the amount of 480,648.62 tons in 2020 with the amount of waste disposed of in landfills - 446,332.36 tons – the difference suggests that around 34,316 tons did not end up in any of the landfills. It is supposed that a part of this amount was collected by informal waste collectors, whereas the remaining amount ended up in legal dumpsites.

Detailed records on the amount of waste generation and waste collection are provided in Annex 1 of this report.

Table 1. Amount of MW generated and collected in 2020

REGION	General and service data				Amount of waste collected (2020)	Waste generation (2020) ¹	
	Number of residents (ASK-2011)	Number of inhabitants served	Number of households (ASK-2011)	Number of households served (12/2020)	Mixed municipal waste collected (ton/year)	Waste generation per capita (kg/ year)	Waste generation per capita (kg/ day)
PRISHTINA REGION	470,583.00	534,205.18	85,104.00	96,336.00	140,564.02	263.13	0.72
MITROVICA REGION	206,734.00	181,661.64	36,312.00	33,146.00	54,160.05	277.77	0.76
PEJA REGION	174,235.00	150,137.88	30,266.00	26,511.00	53,227.50	354.52	0.97
PRIZREN REGION	387,828.00	372,390.46	60,651.00	58,756.00	84,894.45	227.97	0.62
GJILAN REGION	188,188.00	120,013.43	34,387.00	24,938.00	35,902.37	299.15	0.82
GJAKOVA REGION	140,659.00	110,970.14	22,960.00	19,328.00	29,080.00	262.05	0.72
KOSOVO	1,753,922.00	1,583,308.61	300,681.00	279,801.00	430,145.07	271.67	0.74

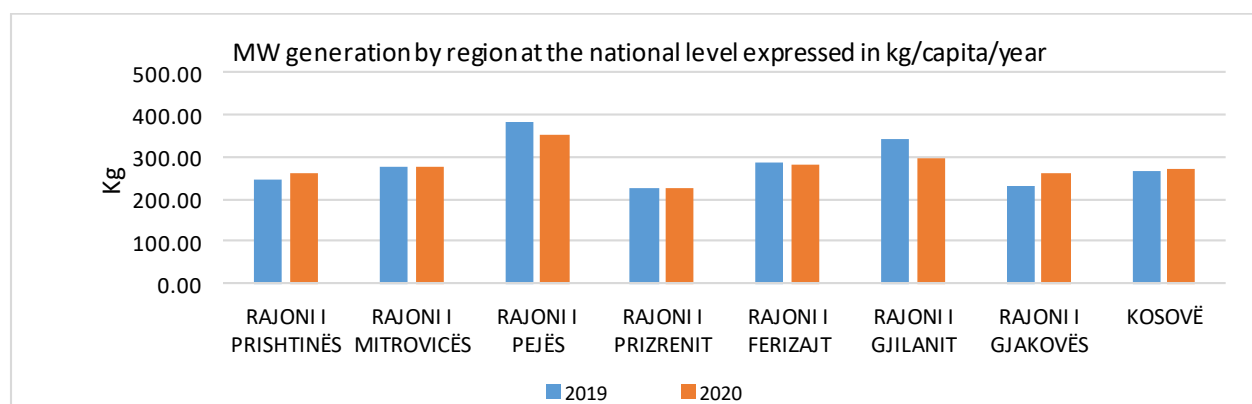
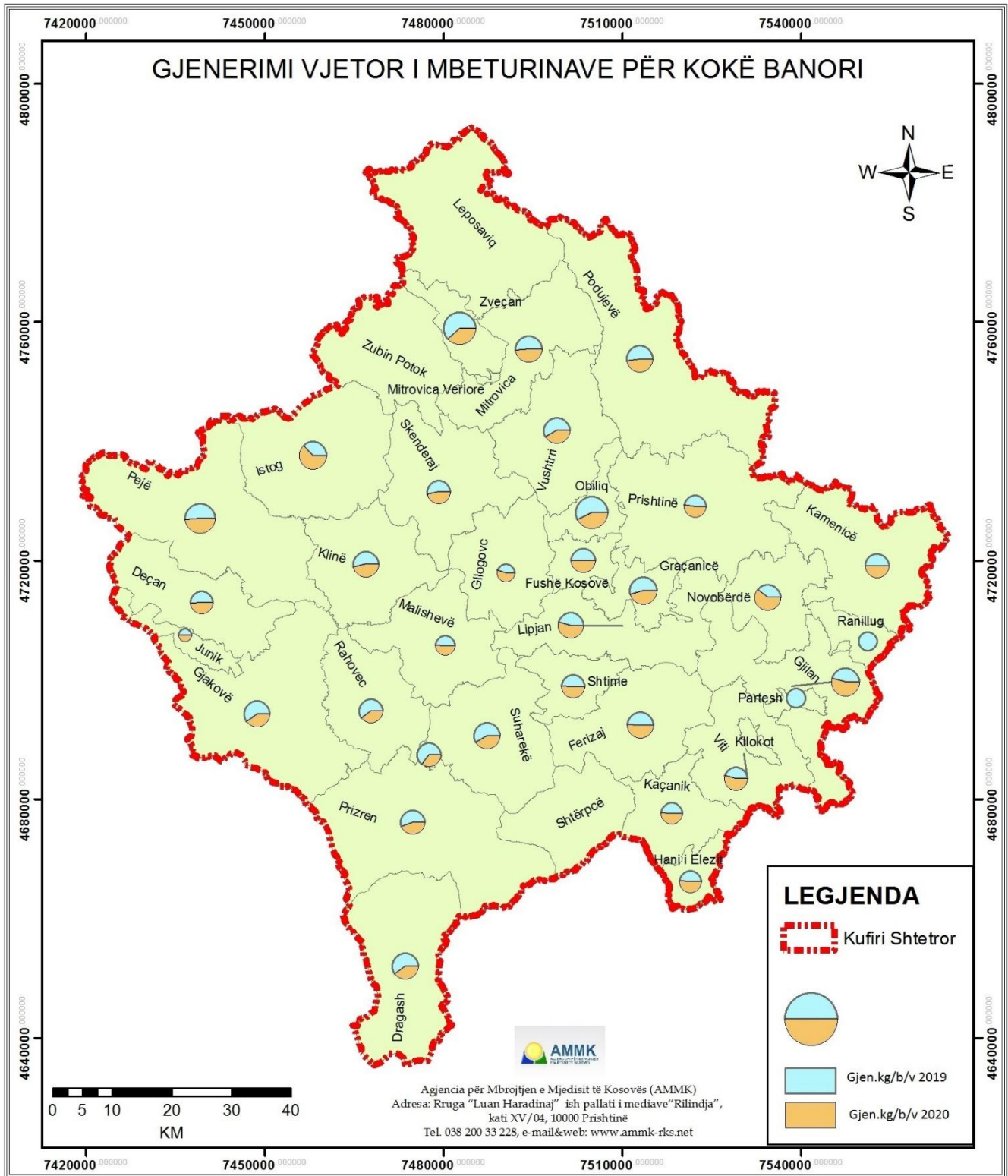


Figure 1. MW generation by region at the country level expressed in kg/capita/year (2019 & 2020)

¹ Generation is calculated based on the amount of municipal waste collected. This calculation does not include non-collected waste and voluminous waste.



Map 1. MW generation in municipalities in kg/capita/year (2019&2020)

3.3 Municipal Waste disposal

As indicated in the table below, the amount of waste disposed in sanitary landfills increased year by year. The figures indicate that, compared to the trends of previous years, the increase of disposals in sanitary landfills in 2020 was abysmally low, whereas in two of them the disposal was even lower than in 2019.

The amount of waste disposed in sanitary landfills managed by the Kosovo Landfill Management Company (KLMC) for 2020 was **340,790.98 tons/year**, thus recording an increase of only 1% compared to 2019.

On the other hand, in other sanitary landfills managed by RWCs, the amount of waste disposed was about **105,541.38 tons/year**, or **around 6% less than in 2019**.

In total, the amount of municipal waste disposed in the sanitary landfills was as high as 446,332.36 tons/year, thus recording a decrease by **3,549 tons**, or around 1% less disposed waste compared to 2019.

These figures do not include the amount of waste disposed in other non-sanitary landfills, such as the one in Istog (Tuçep/Tuçep) or other landfills in the northern part of Kosovo, as there are no data reported.

Table 2. Amount of MW disposed in 2020 expressed in tons

Sanitary Landfills	2015	2016	2017	2018	2019	2020
Prishtina (Mirash)	104,742.68	116,529.00	116,355.77	126,351.47	150,921.83	152,215.43
Gjilan (Velekinçë)	52,045.83	58,215.98	62,036.98	65,366.98	66,740.60	67,075.81
Podujevë (Dumnicë)	10,315.42	10,552.70	11,083.00	12,603.60	15,676.18	16,194.56
Prizren (Landovicë)	79,661.07	89,897.79	90,858.81	95,637.99	104,058.58	105,305.18
Subtotal of landfills managed by KLMC:	246,765.00	275,195.47	280,334.56	299,960.04	337,397.19	340,790.98
Mitrovicë (Gërmovë)	39,546.52	43,863.36	64,663.05	62,109.22	53,729.62	47,415.38
Pejë (Sferk)	44,424.00	48,342.00	47,926.00	49,451.00	52,688.00	52,496.00
Dragash (Sharr)	4,577.00	5,201.50	5,530.50	5,797.00	6,067.00	5,630.00
Subtotal in landfills managed by RWC:	88,547.52	97,406.86	118,119.55	117,357.22	112,484.62	105,541.38
Landfill in Istog (Tuçep) *						
Landfill in Zvecan*						
Landfill in (Lluçkareka)*						
Landfill in Leposaviq*						
Total	335,312.52	372,602.33	398,454.11	417,317.26	449,881.81	446,332.36

*No data from these landfills were reported in this reporting year.

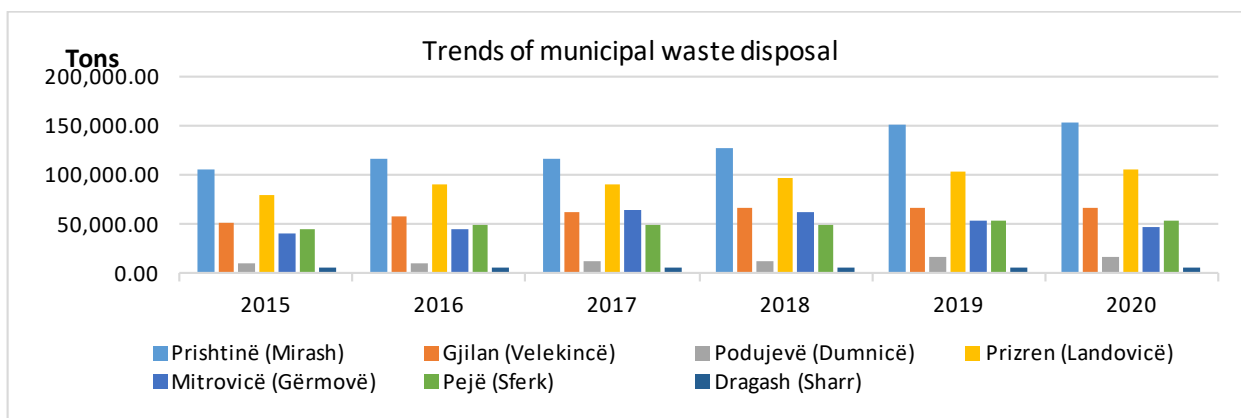


Figure.2. Trends of municipal waste disposal

3.4. Municipal waste collection service coverage

The basic services that municipalities and licensed operators provide to citizens in regard to municipal waste are collection, transportation, and finally disposal of waste into sanitary landfills. The map below offers an overview of the waste collection coverage rate in 2020 broken down by municipalities. Table 3. Below indicates the service coverage by region, whereas Figure 3. Displays service coverage by municipalities expressed in percentage (%). Annex 2 presents the waste service rate for all municipalities in Kosovo in a detailed form.

The waste collection service coverage for households at the end of 2020 at the country level tallied 85.3%, thus recording a 7 % increase compared to 2019, whereas the coverage rate as high as 53.7% for businesses, and 84.8% for institutions.

The Prizren region recorded the highest service coverage rate for households with 94.2%, followed by Mitrovicë/Mitrovica region with 90.4%, while the lowest coverage rate is evidenced in Ferizaj/Uroševac region with 70.0%. According to inputs of 36 municipalities that reported to KEPA, 8 municipalities have already reached the 100% service coverage rate.

It is worth mentioning that due to outdated official data from KAS (2011 census) regarding the number of residents and households in municipalities and dynamic changes in population growth trends over the past years, a significant number of municipalities have a higher number of households than those in the billing system, as opposed to the total number of households taken as reference by the KAS, such as municipalities of Prishtinë/Priština, Fushë Kosovë/Kosovo Polje, Vushtrri/Vučitrn, etc.

Also, in recent years, a large number of municipalities have decided to take over the fee collection from operators and used property tax data for fee collection or found another way to ensure the registration of households in the fee collection registry. Therefore, the number of households is much higher than the one indicated in the KAS 2011 census of population and households, thus making it impossible to present real data on the situation on the ground.

On the other hand, in some other municipalities, such as Suharekë/Suva Reka, Rahovec/Orahovac, Kaçanik/Kaçanik, Podujevë/Podujevo, etc., private companies licensed for waste collection are

operational but were not contracted through public procurement procedures. Hence, the (billing) data reported by these companies were not calculated.

Municipalities also have reported about the service coverage for the categories of businesses and institutions; however, it should be noted that many of them have yet to do the filtering of active and passive business. As a result, the number of businesses may present all the businesses registered within the territory of the municipality and, consequently, the service coverage may be lower than it is in reality.

The definition below was used to calculate the waste collection service coverage:

$$Cr = \frac{N \text{ h.s.}}{N \text{ o.h.}} \times 100\%$$

* Cr - Coverage rate

* N h.s. - Number of households served/billed in December 2019/2020

* N o.h. - Overall number of households according to KAS 2011 Census

Detailed data related to municipal waste collection service coverage rate are provided in Annex 2 of this Report.

Table 3. MW collection service coverage (2019&2020)

REGION	Waste collection service coverage rates				
	Service coverage rate for households (2019)	Service coverage rate for households (2020)	Increase/decrease in service coverage rate for households 2019 - 2020 (points %)	Service coverage rate for businesses (2020)	Service coverage rate for institutions (2020)
PRISHTINA REGION	85.2%	89.2%	4.0%	56.7%	48.0%
MITROVICA REGION	83.2%	90.4%	7.2%	95.9%	97.5%
PEJA REGION	85.1%	87.6%	2.5%	71.2%	93.7%
PRIZREN REGION	95.2%	94.2%	-1.0%	70.5%	90.0%
GJILAN REGION	63.2%	70.4%	7.2%	16.5%	73.4%
GJAKOVA REGION	55.4%	72.0%	16.6%	29.8%	94.9%
PRISHTINA REGION	72.5%	80.4%	7.9%	90.2%	92.7%
KOSOVO²	78.5%	85.3%	6.8%	53.7%	84.8%

² The service coverage rate in some municipalities has been rounded to 100% for the fact that the number of households referred to for calculation of this indicator was based on the data provided by KAS, which differ from the real number of households at the municipal, regional and country level.

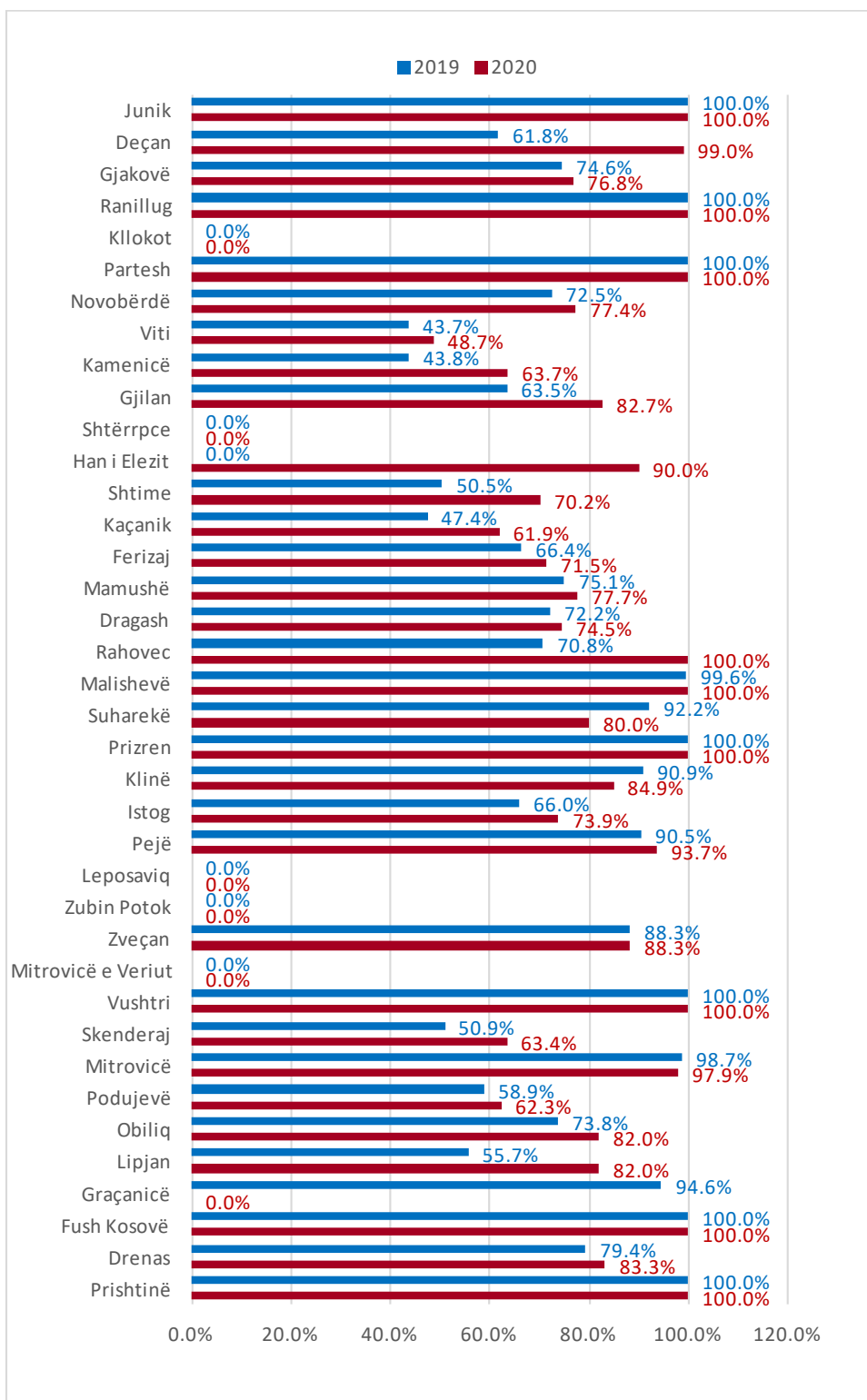


Figure 3. Household MW collection and transport service coverage rate by municipality (2019&2020)

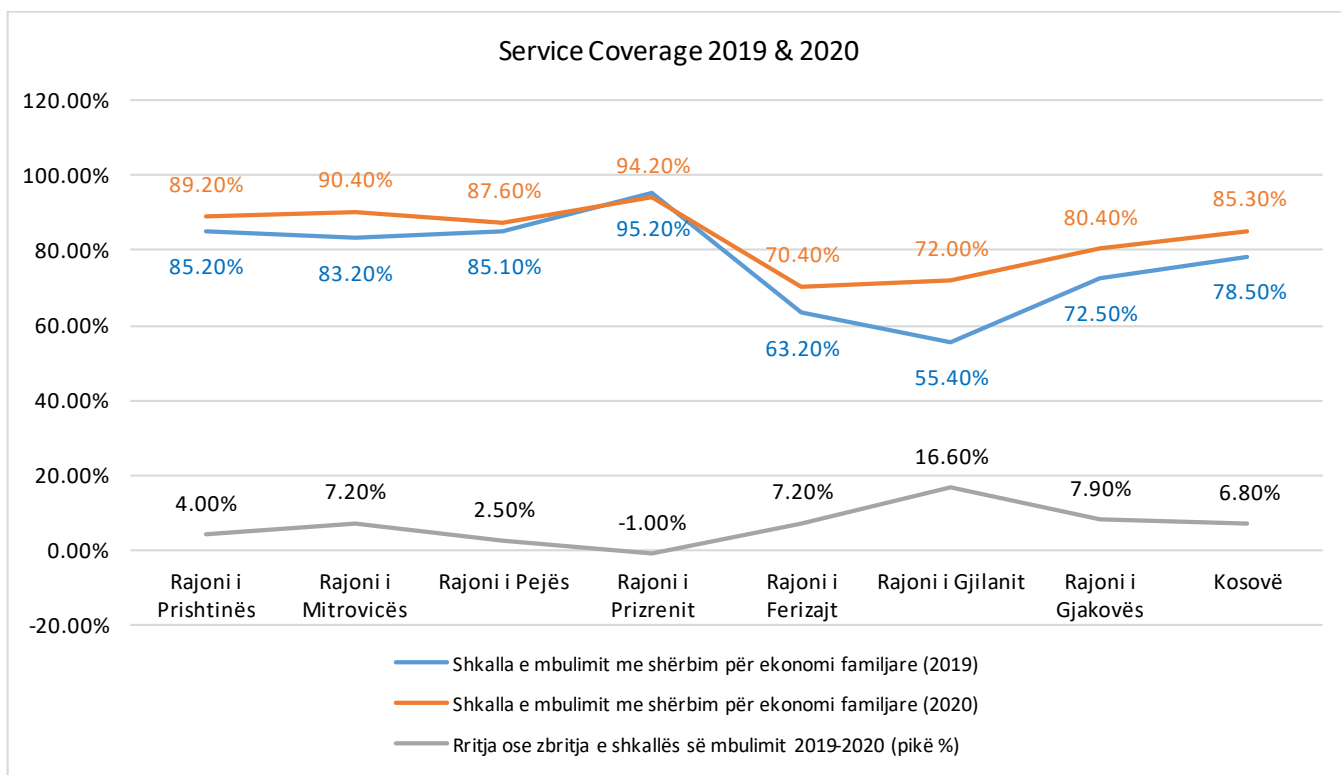
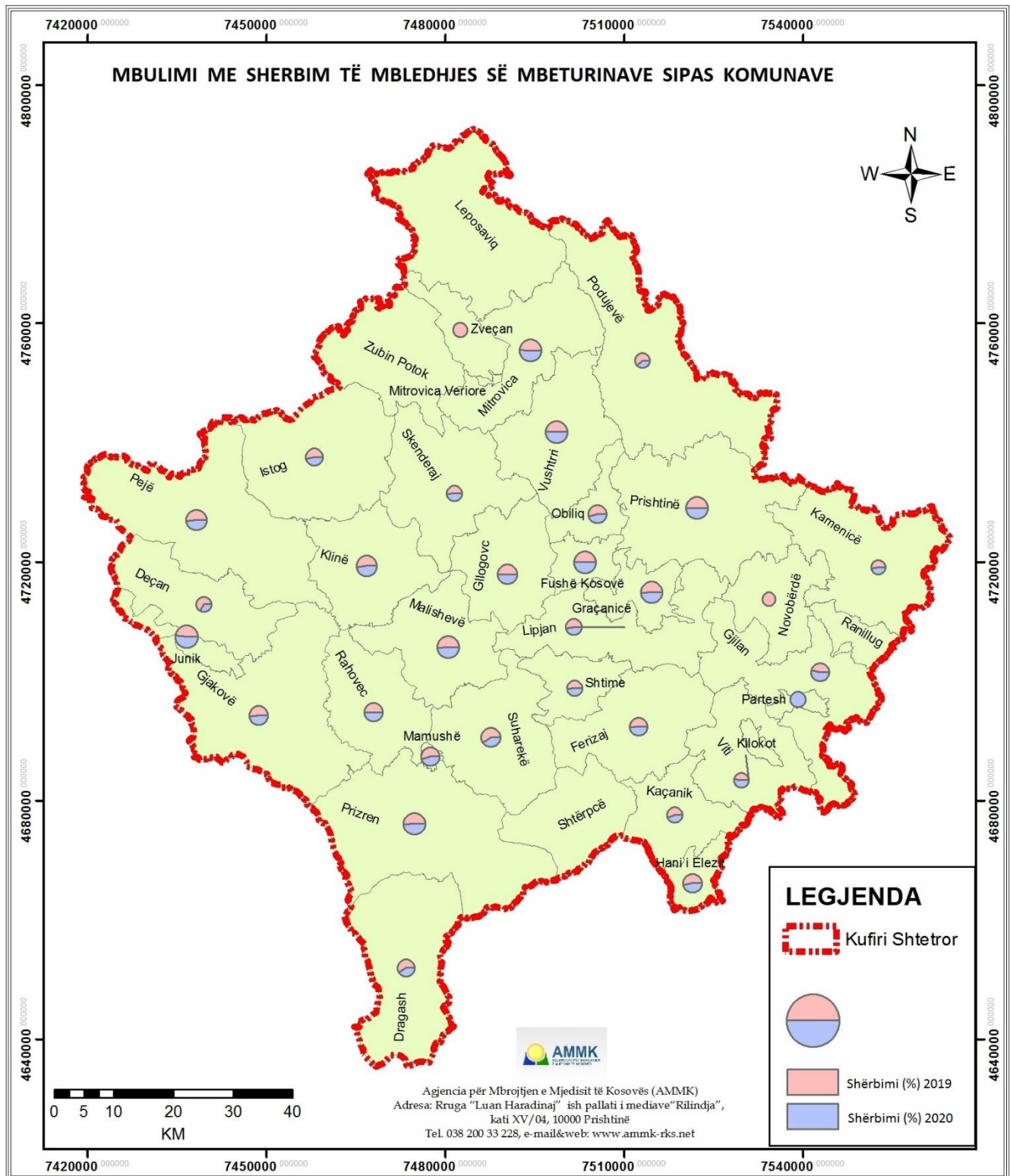


Figure 4. Household MW collection and transport service coverage by region and at national level (2019&2020)



Map 2. MW collection and transport service coverage rate by municipality (2019&2020)

3.5. Billing and fee collection

There is no doubt that financial sustainability is one of the main drivers of the waste management system. Kosovo municipalities, more precisely the regional waste companies (RWC), are consistently facing difficulties related to financial sustainability, therefore improved income generation and planning concerning the orientation of the operational costs will lead to improved performance of service delivery as a whole.

Nevertheless, the actual rate of fee collection in Kosovo increased year by year, thus resulting in an improved financial situation for RWCs. This is a definite indicator of clients' readiness to pay the waste collection fees and the capacity of municipalities to modernize and steward the fee payment.

In 2020 the fee collection rate for households at the country's level reached 90.84% thus recording an increase of only 0.5 % compared to 2019 (90.40%), whereas the collection rate for businesses and institutions recorded 79.30% and 93.51% respectively.

The fact that operators still do not make a distinction in fee collection from billing between the reporting year and previous years (old debts) remains problematic. Having said that, it is supposed that the actual fee collection rate is lower than the one presented by the formula, and the increase in fee collection does not necessarily reflect an increase in the fee collection as per invoices issued in the reporting year.

In the 2020 reporting year, five (5) municipalities reached the 100% rate concerning fee collection from households. At the regional level, Mitrovicë/Mitrovica region recorded the highest rate of fee collection by cashing in 97.10%, followed by the Prizren region with 92%, while the lowest collection rate was evidenced by Gjakovë/Đakovica region with 89.3%.

Fee collection rate data were calculated by using the following formula:

$$\text{Fcr} = \frac{\text{A.i.y}}{\text{A.i.c}} \times 100\%$$

* Fcr- Fee collection rate

* A.i.y - Amount of invoices issued per year

* A.i.c - Amount of invoices collected in the respective year

In the past few years several municipalities, such as Prishtinë/Priština, Mitrovicë/Mitrovica, etc. have undertaken reforms and actions to increase the collection rate by taking over fee collection from RWCs. In such cases the fees were transformed into municipal taxes, thus enabling an easier collection by conditioning the service with payment.

The lists of clients receiving the service should be harmonized with other operators and institutions - for example, with the property register, cadaster, energy corporation or water company, etc. - and then updated on regular basis.

Detailed data on fee collection rates are provided in Annex 3 of the Report.

Table 4. Billing for MW collection and transport service (2020)

REGION	Billing for household service (2020)	Billing for business service (2020)	Billing for institution service (2020)
PRISHTINA REGION	€ 4,665,736.57	€ 806,229.61	€ 233,254.99
MITROVICA REGION	€ 1,221,063.70	€ 577,296.86	€ 1,345,104.55
PEJA REGION	€ 1,433,728.84	€ 412,931.19	€ 200,275.49
PRIZREN REGION	€ 2,312,705.94	€ 298,378.66	€ 114,357.25
GJILAN REGION	€ 1,107,634.40	€ 302,069.80	€ 198,600.17
GJAKOVA REGION	€ 1,157,691.34	€ 281,679.56	€ 117,545.69
PRISHTINA REGION	€ 1,023,536.67	€ 280,115.13	€ 106,929.67
KOSOVO	€12,922,097.45	€2,958,700.81	€2,316,067.81

Table 5. (%) Waste collection and transportation fee rates, MW (2020)

Waste collection fee rates for 2020 (%)			
REGION	Fee collection rate for households (2020)	Fee collection rate for businesses (2020)	Fee collection rate for institutions (2020)
PRISHTINA REGION	89.62%	74.41%	119.12%
MITROVICA REGION	97.10%	88.51%	94.09%
PEJA REGION	90.47%	94.15%	93.45%
PRIZREN REGION	92.05%	92.81%	101.57%
GJILAN REGION	89.50%	34.01%	39.05%
GJAKOVA REGION	89.88%	78.41%	107.60%
PRISHTINA REGION	89.32%	87.78%	107.50%
KOSOVO³	90.84%	79.30%	93.51%

³ Based on the calculation formula, collection rate at the country level differs from the total of percentages at regional level.

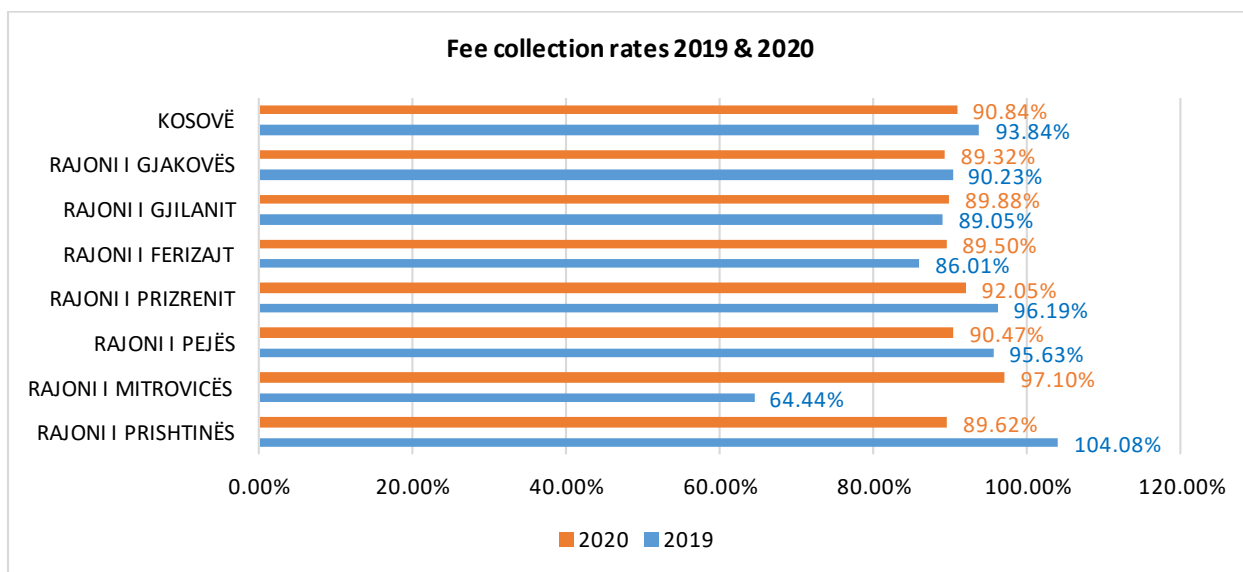


Figure 5. MW collection and transport service fee collection for households at regional and national level (2019&2020)

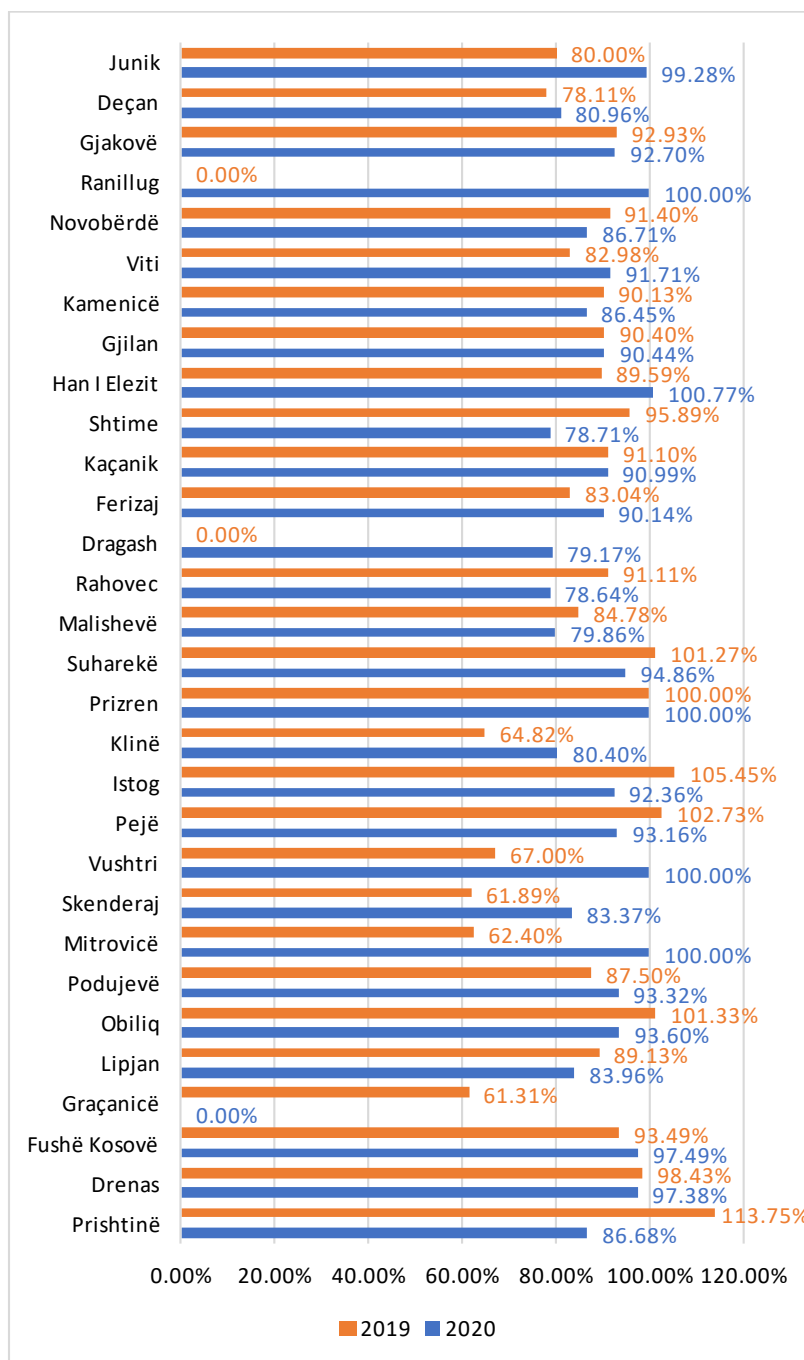
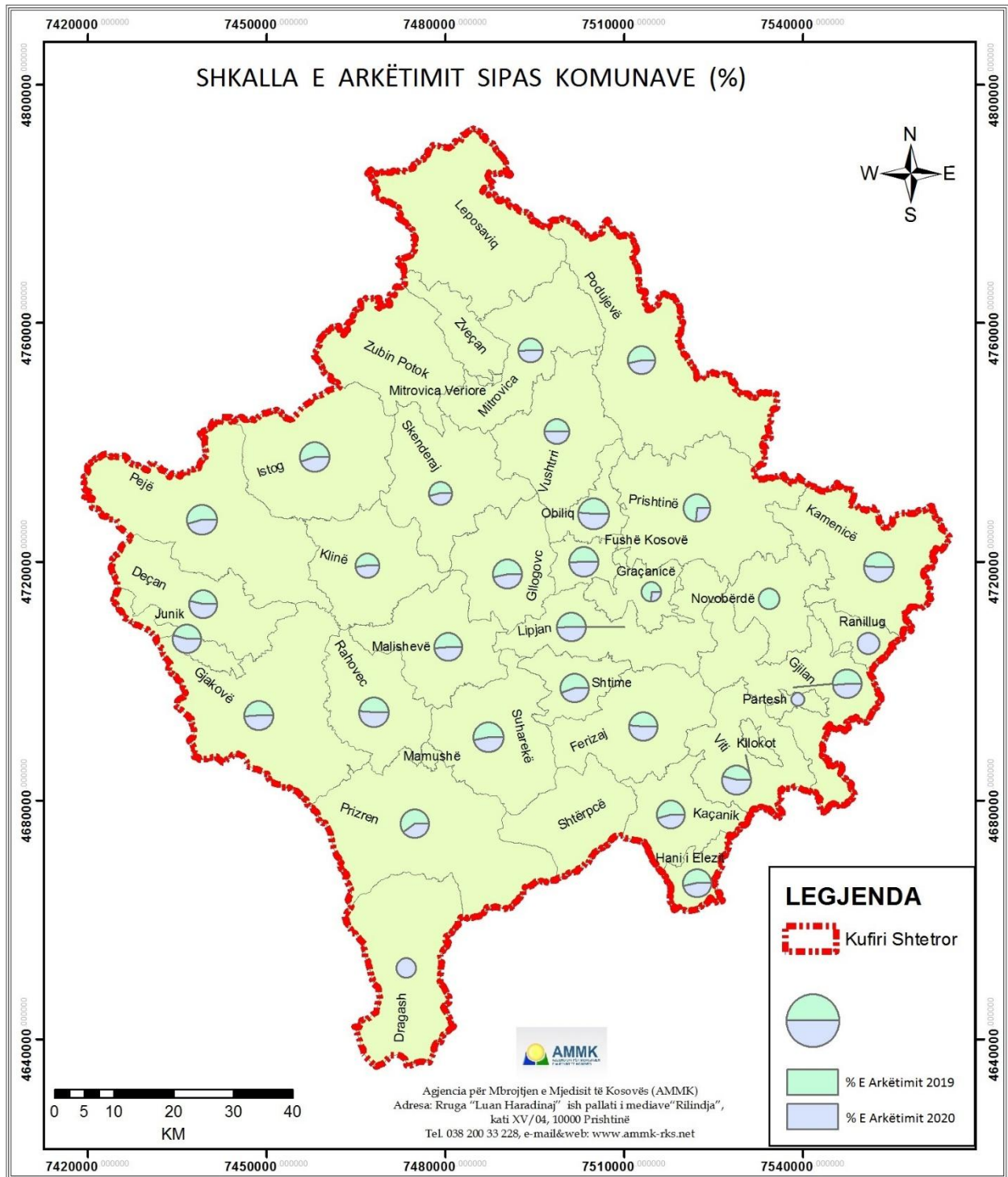


Figure 6. MW collection and transport service fee collection for households by municipality (2019&2020)



Map 3. MW waste collection and transport service fee collection rate (2019&2020)

3.6. Illegal dumpsites

Evidencing and registration of illegal dumpsites in all Kosovo municipalities took place during April 2021. The registered dumpsites were categorized by their size, namely into: *large*, *medium*, and *small dumpsites*. Such categorization was made by estimating the volume of dumpsites visually.

In addition to this, categorization was also made based on the composition of the waste, namely: (a) municipal waste dumpsite; (b) construction and demolition waste dumpsite; (c) hazardous waste dumpsite; (d) voluminous waste dumpsite; and (e) other waste dumpsites.

During this process, a total of 1189 illegal dumpsites of various sizes were evidenced in 38 municipalities Kosovo-wide, with the category of large dumpsites prevailing with 558. The highest number of illegal dumpsites was evidenced in Prishtinë/Priština region, tallying 277, whereas the lowest number of dumpsites was evidenced in Gjakovë/Đakovica region – 32.

The largest number of illegal dumpsites in 2020 was evidenced in the municipality of Lipjan/Lipljane, tallying 126, whereas none of them were reported in the municipality of Junik.

When compared to 2019, there is noticeable progress in the removal of illegal dumpsites - 300 illegal dumpsites less than the previous year.

Illegal dumpsites are mainly dominated by mixed waste (61%), followed by construction and demolition waste, and municipal waste.

Detailed data on illegal dumpsites are provided in Annex 4 to the report.

Table 6. Number of illegal dumpsites by type (fragment) (April 2021)

REGION	Illegal dumpsites by type (fragment)				
	Municipal Waste	Construction and Demolition Waste	Industrial and Hazardous Waste	Voluminous Waste	Other Waste
PRISHTINA REGION	25.3%	30.7%	0.0%	0.6%	43.3%
MITROVICA REGION	19.6%	21.2%	0.0%	0.0%	59.2%
PEJA REGION	27.3%	8.7%	8.0%	0.3%	55.7%
PRIZREN REGION	12.2%	20.2%	0.0%	0.3%	67.3%
GJILAN REGION	11.8%	14.2%	0.0%	0.0%	74.0%
GJAKOVA REGION	23.0%	17.9%	0.0%	0.0%	59.1%
PRISHTINA REGION	0.0%	9.5%	0.0%	0.0%	90.5%
KOSOVO⁴	18.6%	19.5%	0.7%	0.2%	61.0%

⁴ The % of illegal dumpsites by type of waste at the national level was calculated by eliminating the municipality of Junik, as no illegal dumpsites were reported in this municipality.

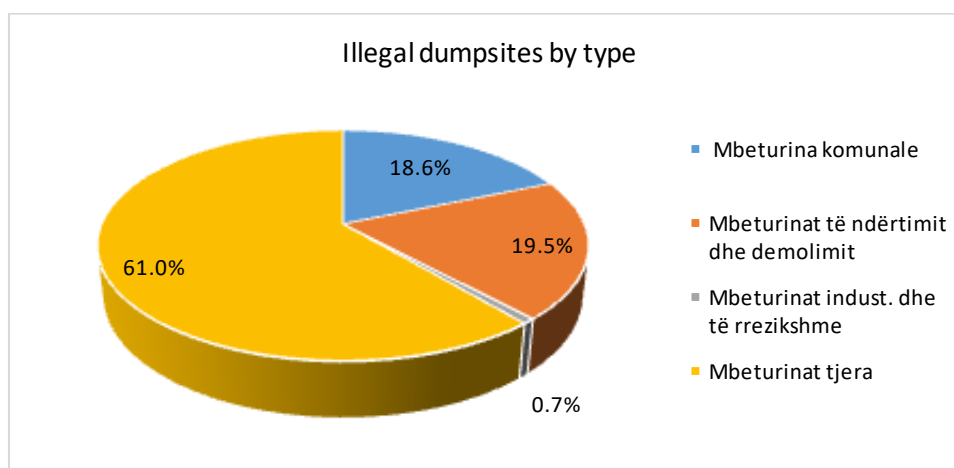


Figure.7. Illegal dumpsites by type at national level (%)

Table 7. Illegal dumpsites by size in regions (April 2021)

RAJONI	Illegal dumpsites by size			Total Illegal dumpsites
	Small dumpsites (1-5 waste bags of 200 liters)	Medium dumpsites (6-20 waste bags of 200 liters)	Large dumpsites (> 20 waste bags of 200 liters)	
PRISHTINA REGION	61	75	141	277
MITROVICA REGION	19	39	42	101
PEJA REGION	58	45	53	156
PRIZREN REGION	59	68	129	256
GJILAN REGION	22	31	65	118
GJAKOVA REGION	49	94	99	242
PRISHTINA REGION	3	7	29	39
KOSOVO	271	359	558	1189

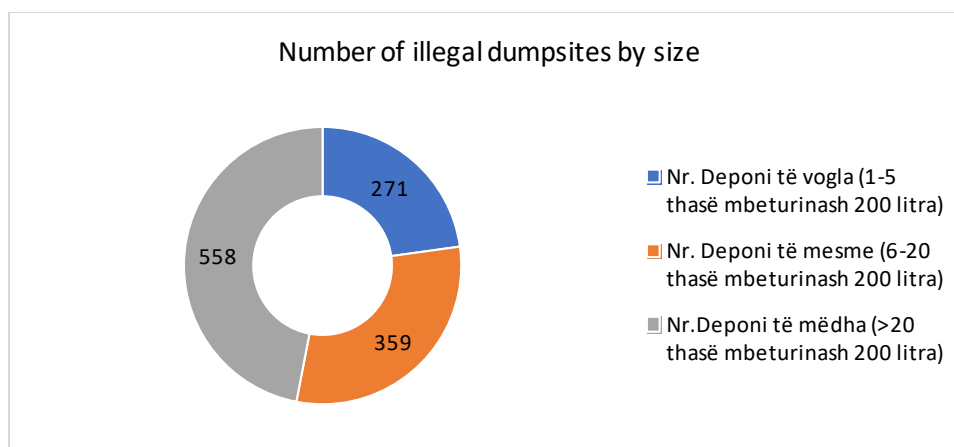
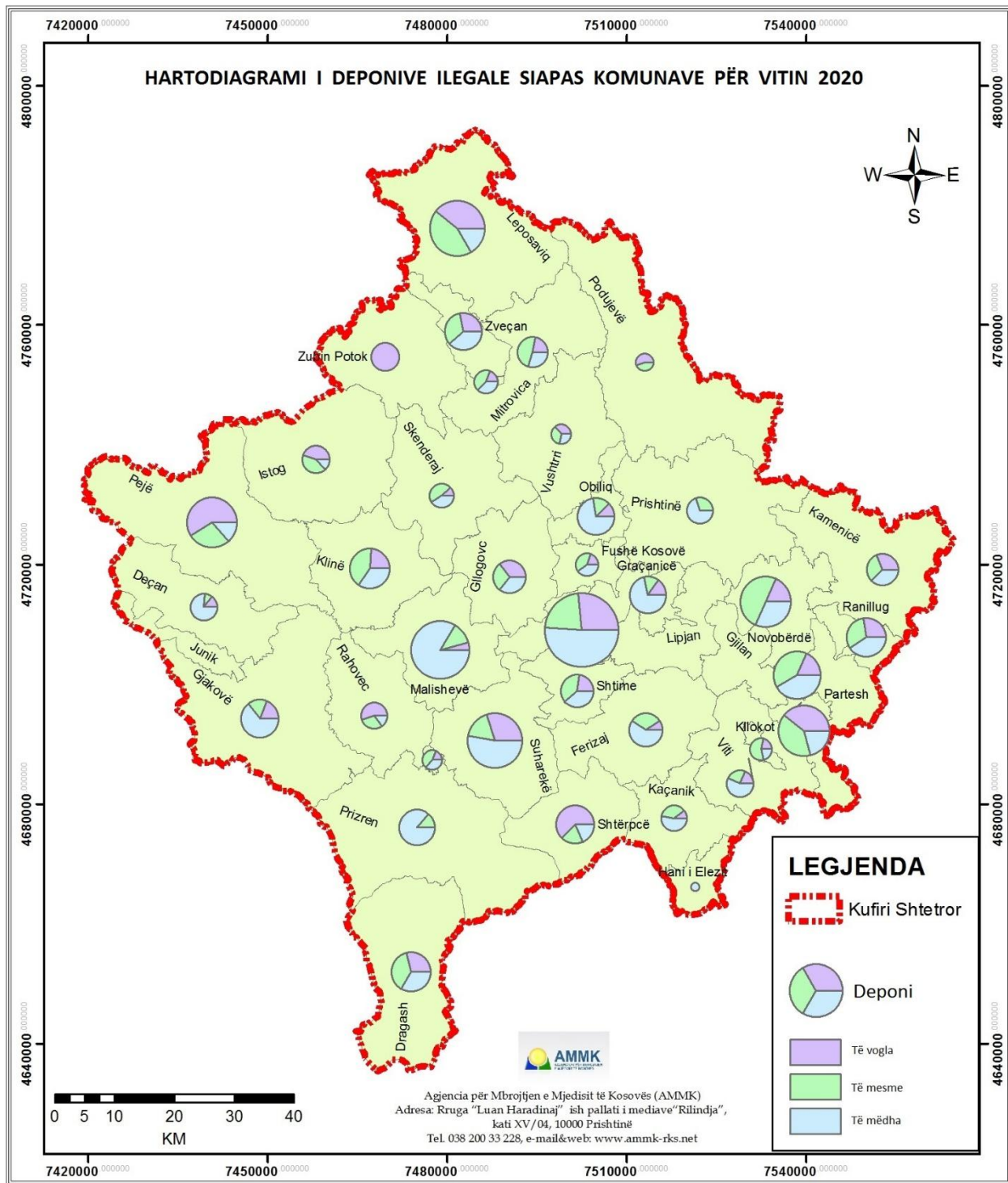


Figure 8. Illegal dumpsites by size at the national level



Map 4. Illegal dumpsites by municipality (April 2021)

3.7. Cost-effectiveness of municipal waste management

Service cost-effectiveness was included for the first time in this reporting year. The purpose of this indicator is to have a better insight into how the municipalities are delivering their services with the cost interval as defined in the cost calculations used for establishing a service fee that covers the cost.

The quality of service and sustainability of service delivery can be severely limited when services are not offered economically and cost-effectively. Ineffective service delivery is an important obstacle that needs to be addressed.

The waste collection service costs vary considerably depending on the typology of services. That's why cost-effectiveness is measured and evaluated on the occasion of establishing the service fee in a certain municipality.

Municipalities and licensed service providers report on cost-effectiveness based on their internal cost evaluations coupled with the official documentary evidence in support of their evaluation. On this occasion, relevant are the costs that are formally allocated to waste management services and are taken into account when calculating the costs of waste management services.

Although the requirements of this indicator have been for the cost efficiency to be calculated based on the amount of waste collected per tones, the municipalities and licensed service providers were not able to support their inputs with adequate documentary evidence. Consequently, in these circumstances, after the assessment of reports, the service provider staffing table per 1000 customers served was taken into consideration to calculate the cost-effectiveness.

Table 8. Cost-effectiveness of waste management, 2020

Cost-effectiveness of Waste Management				
Nr.	Municipality	Staffing table of the service provider	Clients served	Effectiveness of staff per 1000 clients served
1	Prishtinë/Pristina	678	63,832	10.6
2	Drenas/Glogovac	44	7,988	5.5
3	Fushë Kosovë/Kosovo Polje	56	12,818	4.4
4	Graçanicë/Gračanica	145	-	-
5	Li pjan/Lipljane	45	8,369	
6	Obiliq/Obilić	34	3,360	10.1
7	Podujevë/Podujevo	51	9,204	5.5
8	Mitrovicë/Mitrovica	156	14,105	11.1
9	Skënderaj/Srbica	45	5,400	8.3
10	Vushtrri/Vučitrn	73	14,758	4.9
11	North Mitrovica		-	-
12	Zvečan/Zveçane	51	1,813	28.1
13	Zubin Potok	45	-	-
14	Leposaviq/Leposavić		-	-
15	Pejë/Peć	126	19,253	6.5
16	Istog/Istok	35	5,624	6.2
17	Klinë/Klina	32	5,682	5.6
18	Prizren		35,589	-

19	Suharekë/Suva Reka	51	5,902	8.6
19	Malishevë/Mališevo	58	7,861	7.4
21	Rahovec/Orahovac	61	10,765	5.7
22	Dragash/Dragaš	33	4,990	6.6
23	Mamushë/Mamuša/Mamuša	11	465	
24	Ferizaj/Uroševac	161	15,191	10.6
25	Kaçanik/Kaçanik	32	3,723	
26	Shtime/Štimlje		3,222	-
27	Hani i Elezit/Ellez Han	20	1,402	14.3
28	Shtërpcë/Štrpce		-	-
29	Gjilan/Gnjilane	80	15,357	5.2
30	Kamenicë/Kamenica	15	4,555	3.3
31	Viti/Vitina	16	4,133	3.9
32	Novobërdë/Novo Brdo	7	1,224	5.7
33	Partesh/Parteš	7	1,038	6.7
34	Kllokot-Vërbovc/ Klokot-Vrbovac		-	-
35	Ranillug/Ranilug		1,007	-
36	Gjakovë/Đakovica	145	14,828	9.8
37	Deçan/Decani	40	7,090	5.6
38	Junik	9	1,095	-
	Total:	2362	311643	8.0

3.8. Differentiated systems for special waste

Differentiated systems for special waste, too, is an indicator used for the first time by municipalities in the 2020 reporting. The purpose of this indicator is to encourage municipalities to put efforts into the establishment of differentiated systems for the management of construction and demolition waste, voluminous waste, medical waste, and waste from agriculture and agricultural premises, *i.e.* animal and animal sub-products waste. This indicator measures the activities of municipalities in integrating investment plans with service delivery planning. The onflow of such type of waste were included in the Municipal Waste Management Plans (MWMPs), and as such, this indicator aims to measure the implementation of the plans.

However, referring to results excerpted from municipal reports and the assessment of MWMPs, we have noticed that municipalities generally failed to accurately present how they are going to prioritize the onflow of special waste, as they failed to clearly define the specific sections in service delivery planning, just as the operational models, cost evaluation and financing (including budget allocations) and necessary investments. Even in cases when specific sections were clearly defined, they failed to take steps in providing the said services.

Thus, the results of this indicator presented in the table below were obtained when all the above-mentioned aspects were considered for a particular waste onflow, *i.e.*, the MWMPs were reviewed and if it was found that these waste onflows are included and clearly reflected in respective sections (purpose, objectives, measures/activity) and budget is allocated, then a table of results was generated for each municipality. Municipalities that have provided a clear description of such waste onflows have been evaluated with Value 1, while in some cases certain municipalities failed to harmonize or

did not harmonize at all even after the revision of their MWMPs, and consequently were evaluated with Value 0.

Table.9. Differentiated systems for special waste

DIFFERENTIATED SYSTEMS FOR SPECIAL WASTE						
Nr	Municipality	Total Evaluation				Level of compliance with MWMP
		Construction and Demolition Waste	Voluminous Waste	Animal and animals' sub-products waste	Medicine Waste	
1	Prishtinë/Prishtina	1	1	1	1	4
2	Drenas/Glogovac	1	0	1	1	3
3	Fushë Kosovë/Kosovo Polje	0	0	1	1	2
4	Graçanicë/Gračanica	1	1	0	0	2
5	Lipjan/Lipljane	0	0	1	1	2
6	Obiliq/Obilić	0	0	1	1	2
7	Podujevë/Podujevo	0	0	1	1	2
8	Mitrovicë/Mitrovica	0	0	1	1	2
9	Skënderaj/Srbica	0	0	1	1	2
10	Vushtrri/Vučitrn	0	0	0	0	0
11	North Mitrovica	-	-	-	-	-
12	Zvečan/Zvečane	1	1	1	1	4
13	Zubin Potok	1	1	1	1	4
14	Leposaviq/Leposavić	-	-	-	-	0
15	Pejë/Peć	0	0	1	1	2
16	Istog/Istok	1	1	1	1	4
17	Klinë/Klina	1	1	1	1	4
18	Prizren	0	0	1	1	2
19	Suharekë/Suva Reka	1	0	0	0	1
19	Malishevë/Mališevo	0	0	0	0	0
21	Rahovec/Orahovac	0	0	0	0	0
22	Dragash/Dragaš	0	0	0	0	0
23	Mamushë/Mamuša/Mamuša	0	0	1	1	2
24	Ferizaj/Uroševac	1	1	1	1	4
25	Kaçanik/Kaçanik	0	0	0	0	0
26	Shtëmë/Štëmlje	1	1	1	1	4
27	Hani i Elezit/Elëz Han	0	0	0	0	0
28	Shtërpçë/Štrpce	0	0	0	0	0
29	Gjilan/Gnjilane	0	0	1	1	2
30	Kamenicë/Kamenica	1	1	1	1	4
31	Viti/Vitina	0	0	1	1	2
32	Novobërdë/Novo Brdo	1	1	1	1	4
33	Partesh/Parteš	0	0	1	1	2
34	Kllokot-Vërbovc	1	0	0	0	1
35	Ranillug/Ranillug	0	0	0	0	0
36	Gjakovë/Đakovica	0	0	1	1	2
37	Deçan/Decani	1	1	1	1	4
38	Junik	0	0	1	1	2

* With Value 1 have been evaluated municipalities that included treatment of these onflows in the MWMP, whereas with Value 0 those who failed to do so.

3.9. Waste separation at source

This year, just as was the case with the past years, the reports submitted by the municipalities and licensed operators failed to provide complete information about the activities related to waste separation at source and recycling.

KEPA requested from municipalities to report on the number of households that have access to the infrastructure of waste separation at source, including all households within a 250 m radius from a waste collection facility that provides separation of recyclable waste, households that are equipped with a composter, and households within a radius of 5 km from a separated waste collection facility.

Accordingly, out of 36 municipalities that reported on waste management in 2020, only 7 municipalities resulted to have provided access to infrastructure for separation at source. Such initial steps towards circular economy were taken by the municipalities of Drenas/Glogovac, Fushë Kosovë/Kosovo Polje, Podujevë/Podujevo, Mitrovicë/Mitrovica, Pejë/Peć, Rahovec/Orahovac and Ferizaj/Uroševac.

For all these municipalities the data reported were validated with planning documents, photographic evidence from locations, orthophotos, a list of settlements, etc.

In general, the data reported indicate that the number of households with access to waste separation infrastructure at the country-level in 2020 was as high as 5%, or 15,061 households in total.

As far as recycling is concerned, the municipalities were not able to provide valuable inputs related to recycling activities, consequently during the procession of reporting data we concluded that we are not in a position to provide an approximate figure of the amount of waste recycled in the municipalities. This is an important aspect to focus on in the future to enrich the data related to recycling activities in Kosovo.

Detailed data on waste separation at the source are provided in Annex 5 of the Report.

3.10. Compliance with waste management legal and planning framework

Law No.04/L-060 on Waste and other bylaws and planning documents at the central and local level deriving from it, make up the legal framework that regulates the field of waste management in Kosovo. This legal framework stipulates the duties and responsibilities of individual municipalities on waste management within their territories.

Compliance with the legal framework is a prerequisite for local authorities to take concrete measures for the accomplishment of the set goals and objectives.

Some of the obligations deriving from the legal framework, fulfillment of which is key to enable municipalities to implement the law and waste management plans, involve the following (*namely processes*):

1. Development and adoption of Municipal Waste Management Plan (MWMP);
2. Development and adoption of Regulation on Waste Management (RWM);

3. Employment of a full-time Waste Management Officer whose job description ensures that at least 50% of his/her responsibilities cover waste management;
4. Employment of an environmental inspector whose job description includes responsibilities related to waste management;
5. Contracting of licensed operators for collection and transportation of municipal waste, by implementing procurement procedures;
6. Contracting through procurement procedures of licensed operators for collection and transportation of construction and demolition waste from construction sites;
7. Establishment of service fees through the fee-setting process for collection, transportation and disposal of municipal waste, by calculating service costs and profile of clients;
8. Designation of a facility for collection, treatment, and disposal of construction and demolition waste;
9. Definition of the organizational structure of the municipal inspectorate; and
10. Imposition of mandatory fines.

As already known, municipalities have the responsibility to comply with the stipulated obligation to report within a set deadline *i.e.* by 31 March of the next year, covering the activities of the previous year.

Based on reporting inputs collected, followed by data validation, we were able to compile a general overview of the implementation processes regarding compliance with waste management legal and planning framework.

Prishtinë/Priština region recorded the highest rate of legal compliancy with 84%, whereas the municipality of Gjilan/Gnjilane the lowest compliancy rate - 53%.

The implementation of 10 above-listed obligations at the country level in 2020 tallied as high as 69.4%, which indicates a 5.2% increase compared to 2019.

Table 10. Compliance with waste management legal and planning framework (2019 & 2020)

REGION	Year	1. Development and adoption of MWMP	Development and adoption of waste management regulation,	3. WM Officer	4. Environmental Inspector	5. Contracting licensed operators for municipal waste collection	6. Contracting licensed operators for C&D waste collection	7. Establish service fees by going through the fee-setting process	8. Designation of the facility for collection, treatment, and disposal of C&D waste	9. Organizational structure of the municipal inspectorate	10. Report on mandatory fines imposed	Average of implemented processes
PRISHTINA	19	100%	100%	100%	71%	57%	0%	100%	71%	100%	71%	77.0%

	20	100%	100%	100%	71%	100%	0%	100%	71%	100%	100%	84.3%
MITROVICA	19	80%	60%	80%	80%	60%	0%	100%	60%	80%	60%	66.0%
	20	100%	60%	80%	80%	60%	0%	100%	60%	80%	60%	68.0%
PEJA	19	100%	100%	100%	100%	33%	0%	100%	33%	100%	67%	73.3%
	20	100%	100%	100%	100%	33%	0%	100%	33%	100%	100%	76.7%
PRIZREN	19	50%	50%	67%	100%	83%	0%	17%	67%	100%	50%	58.4%
	20	67%	83%	100%	100%	83%	0%	17%	83%	100%	100%	73.3%
FERIZAJ	19	80%	60%	60%	80%	60%	0%	80%	80%	80%	80%	66.0%
	20	80%	60%	80%	80%	60%	0%	80%	80%	80%	40%	64.0%
GJILAN	19	71%	43%	43%	57%	57%	0%	0%	43%	71%	43%	42.8%
	20	86%	57%	71%	57%	57%	0%	0%	57%	57%	86%	52.9%
GJAKOVA	19	100%	100%	100%	100%	67%	0%	67%	100%	100%	67%	80.1%
	20	100%	100%	100%	100%	67%	0%	67%	67%	100%	67%	76.7%
Nr. of municipalities that implemented the process	2019	29	25	27	29	22	0	22	23	32	22	23
	2020	31	28	32	29	25	0	22	24	31	28	25
Average of processes implemented	2019	80.6%	69.4%	75.0%	80.6%	61.1%	0.0%	61.1%	64.0%	89.0%	61.1%	64.2%
	2020	86.1%	77.8%	88.9%	80.6%	69.4%	0.0%	61.1%	66.7%	86.1%	77.8%	69.4%

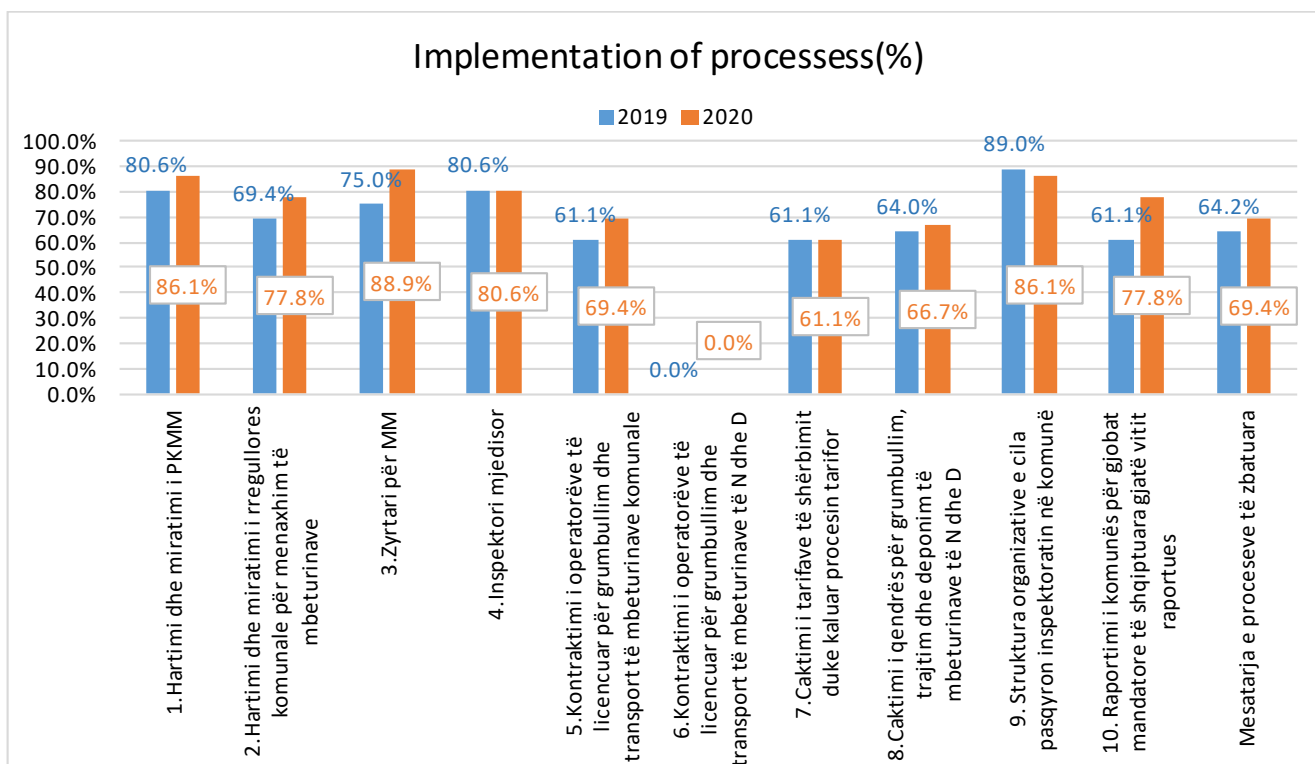


Figure 9. Level (%) of implementation of required processes at national level (2019&2020)

Similar to the last year, the process that has not been implemented by the municipalities this year is process 6. This is happening because municipalities are failing to contract licensed collection and transportation companies for the removal of construction and demolition waste. This phenomenon was likely further complicated due to the lack of interest of companies to get licensed for collection and transportation of construction and demolition. On the other hand, some municipalities have taken actions to manage this type of waste by contracting public companies operating in their territories, private construction companies, or other operators.

The most implemented processes by municipalities (31 out of 36 that reported) turned to be: (2) Development and adoption of Municipal Waste Management Plan (MWMP) and (3) Employment of full-time Waste Management Officer. The less implemented processes turned out to be: (7) Establishment of service fees through the fee-setting process, which was implemented only by 22 municipalities.

Detailed data on the implementation of processes are provided in Annex 6 of the Report.

3.11 Licensed waste management operators

The licensed operators for municipal waste collection and transportation are mainly Regional Waste Companies (RWCs). However, there are cases where municipalities have engaged private companies, which are integrated as special operating units within the municipal administrations tasked to deal with

waste management. For the 2020 reporting year, the data reported by the municipalities include those of licensed waste collection and transportation operators.

Regional Waste Companies (RWCs) operate in 7 regions, covering over 27 municipalities with municipal waste collection and transport services.

In some municipalities, such as Podujevë/Podujevo, Prizren, Rahovec/Orahovac, Junik, Deçan/Decani, Zveçane/Zveçane and Hani i Elezit/Elz Han there are municipal companies in place, whereas in the municipalities of Ranillug/Ranilug and Partesh/Parteš the service is provided by the municipal administration staff. These specific entries will be part of the Register of Operators at the country level, which will be updated on annual basis with relevant inputs reported by municipalities.

A clearer picture of the scope of municipal waste collection and transport operators is provided in the following table:

Table 10. Municipal Waste Management Operators

	Municipalities	Licensed operators for municipal waste collection and transport that provide services in the municipality	
		Public operators	Private operators
1	Prishtinë/Pristina	RWC "Pastrimi"	
2	Drenas/Glogovac		
3	Fushë Kosovë/Kosovo Polje		
4	Graçanicë/Gračanica		
5	Lipjan/Lipljane		
6	Obiliq/Obilić		
7	Podujevë/Podujevo		Natyra LLC
8	Mitrovicë/Mitrovica	RWC "Uniteti"	
9	Skënderaj/Srbica		
10	Vushtrri/Vučitrn		
11	North Mitrovica		
12	Zveçan/Zveçane	Municipal public housing enterprise	
13	Zubin Potok		
14	Leposaviq/Leposavić		
15	Pejë/Peć	RWC "Ambienti"	"Eurosteel" LLC
16	Istog/Istok		
17	Klinë/Klina		
18	Prizren	RWC "Ekoregjioni"	I&S Company LLC
19	Suharekë/Suva Reka		I&S Company LLC
20	Malishevë/Mališevo		
21	Rahovec/Orahovac		Eko-Drinia LLC
22	Dragash/Dragaš		
23	Mamushë/Mamuša/Mamuša		I&S Company LLC
24	Ferizaj/Uroševac	RWC "Pastërtia"	
25	Kaçanik/Kaçanik		NTSH "Krasniqi"
26	Shtëmë/Štëmlje		
27	Hani i Elezit/Elz Han	NPL "Pastrimi" JSC	
28	Shtërpcë/Štrpce		
29	Gjilan/Gnjilane	RWC "Ekohigjiena"	
30	Kamenicë/Kamenica		

31	Viti/Vitina		
32	Novobërdë/Novo Brdo		
33	Partesh/Parteš	Municipality of Partesh/Parteš	
34	Kllokot-Vërbovc		
35	Ranillug/Ranillug	Municipality of Ranillug/Ranilug	
36	Gjakovë/Đakovica	RWC "Çabratë"	
37	Deçan/Decani	Higiëna JSC - Bjëshkët e Deçanit	
38	Junik		VB. TOFAJ LLC

* Municipalities of Ranillug/Ranilug and Partesh/Parteš have municipal departments in place dealing with waste collection

REPORT FINDINGS

- 2020 Report indicates that over 90% of the total amount of waste generated ends up in sanitary landfills, whereas the remaining part in the non-sanitary landfills;
- Coverage with waste collection and transportation service is increasing year by year - from 70.9% in 2017, 75.6% in 2018, 78.5% in 2019 up to 85.3% in 2020;
- Fee collection from households is recording a progressive growth year by year. While in 2018 the fee collection rate was 67.54%, in 2019 it climbed to 93.84%, whereas in 2020 tallied 90.84%, thus recording a decrease of 3% (probably due to the situation created by the COVID-19 pandemic). Another challenge remains estimation of the annual real fee-collection, specifically the incorporation of previous debts in an actual reporting year.
- Contrary to the previous year when a total of 1490 illegal dumpsites were evidenced, in 2020 there was an improvement of the situation with illegal dumpsites by evidencing 300 less.
- Waste recycling continues to remain a challenge for municipalities. Despite the initiatives of several municipalities to provide access to separation at source for recyclable waste - mainly plastic, paper, cardboard, and aluminum - including organic waste, the situation remains unreliable. Based on the data in hand we are not in a position to calculate the real recycling rate at the country's level, which is believed to be abysmally low whatsoever.
- When it comes to implementation of processes deriving from the waste management and planning legal framework, the municipalities have recorded fairly decent progress. However, some municipalities are lagging in the implementation of some key processes, such as Employment of a full-time Waste Management Officer and Environmental Inspector, Development of Regulation on Waste Management, Development of Municipal Waste Management Plan, etc.
- Municipal Waste Management Plans have expired in over 20 municipalities.
- The Report indicates that the progress in the field of waste management is not balanced in all regions, as some regions or municipalities have superior technical capacities and resources compared to other regions or municipalities.

RECOMMENDATIONS

- Municipalities, public operators, and central institutions need to develop policies that promote the reduction of waste generation, as well investments in waste treatment and recycling.
- Municipalities and licensed operators dealing with waste collection and transportation must put additional efforts to achieve service coverage at a 100% rate, as only by doing so we will have a cleaner environment.
- Municipalities and the contracted waste collection operators must put additional efforts to increase the fee collection rate and thus generate the necessary incomes for their normal operation. Their sustainability, which is a challenge of this sector, will be ensured only by increasing fee collection trends. In addition to this, they need to accurately calculate the balance of amounts billed with the previous debts.
- In coordination with the licensed operators, the municipalities need to augment investments in technical capacities in order to reduce service operational costs. Most of the municipalities/contracted operators already have old and time-worn equipment for waste collection and transportation averaging 15 years in service.
- The presence of illegal dumpsites is mainly related to the delayed extension of waste collection service coverage throughout the country, insufficient awareness campaigning, and communication with citizens, lack of a strategy for implementation of legal actions against polluters, etc. Hence, the responsible actors are required to take concrete measures in preventing the further creation of illegal dumpsites.
- There is a need to conduct an in-depth analysis of the potentials for recycling. There is a need to boost cooperation and coordination with licensed recycling operators, the informal sector, and sanitary landfills. A crucial role in this respect should play institutions at both, the local and central levels.
- Municipalities must put additional efforts in implementing processes referring to issues presented in this report, specifically in Annex 6 of the Report.
- Central level policies and donor support must be orientated towards a balanced development regarding the waste management capacities at the regional and municipal levels.
- Municipalities with expired MWMP must put additional efforts to revise them within legal terms.

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REPORT ON MUNICIPAL WASTE MANAGEMENT IN KOSOVO

REPORTING YEAR 2020

This report was prepared by the Directorate of Environmental Status Assessment of the Kosovo Environmental Protection Agency, with the support of the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, on behalf of the German Government.

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ANNEXES:

- Annex 1.** Amount of municipal waste collected and generated in Kosovo, 2020.
- Annex 2.** General overview of coverage with the municipal waste collection and transportation service in 2019 and 2020.
- Annex 2.1.** Overall coverage rate regarding municipal waste collection and transportation service in 2019 and 2020
- Annex 3.** General overview of fee collection for municipal waste collection and transportation service in 2020
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- Annex 6.** Compliance with waste management legal and planning framework in 2020.
- Annex 6.1.** Compliance with waste management legal and planning framework in 2020.

Annex 1. Amount of municipal waste collected and generated in Kosovo

Municipalities/RWC Region/ REGION	General and service data				Amount of waste collected (2020)		Waste generation (2020)	
	Number of inhabitants (KAS 2011)	Number of inhabitants served	Number of households (KAS-2011)	Number of households served (12/2020)	Municipal Mixed Waste collected (tons/year)	Municipal Mixed Waste collected (kg/year)	Waste generation per capita (kg/year)	Waste generation per capita (kg/day) ⁵
Prishtinë/Prishtina	198,897.00	317,151.59	40,528.00	58,003.00	81,885.00	81,885,000.00	258.19	0.71
Drenas/Glogovac	58,531.00	46,619.62	8,786.00	7,020.00	8,995.27	8,995,270.00	192.95	0.53
Fushë-Kosovë/K. Polje	34,827.00	60,391.50	6,580.00	11,995.00	15,674.75	15,674,750.00	259.55	0.71
Graçanicë/Gračanica	10,675.00	0.00	2,421.00	0.00	1,837.00	1,837,000.00	0.0	0.0
Lipjan/Lipljane	57,605.00	39,659.92	9,497.00	7,790.00	10,620.00	10,620,000.00	267.78	0.73
Obiliq/Obilić	21,549.00	16,782.71	3,852.00	3,159.00	6,194.00	6,194,000.00	369.07	1.01
Podujevë/Podujevo	88,499.00	53,599.84	13,440.00	8,369.00	15,358.00	15,358,000.00	286.53	0.79
RWC "Pastrimi"	470,583.00	534,205.18	85,104.00	96,336.00	140,564.02	140,564,020.00	263.13	0.72
PRISHTINA REGION	470,583.00	534,205.18	85,104.00	96,336.00	140,564.02	140,564,020.00	263.13	0.72
Mitrovicë/Mitrovica	71,909.00	70,697.14	13,173.00	12,895.00	21,497.59	21,497,590.00	304.08	0.83
Skënderaj/Srbica	50,858.00	29,056.99	7,682.00	4,867.00	6,336.95	6,336,950.00	218.09	0.60
Vushtrri/Vučitrn	69,870.00	75,298.97	11,866.00	13,710.00	19,681.21	19,681,210.00	261.37	0.72
RWC "Uniteti"	192,637.00	175,053.10	32,721.00	31,472.00	47,515.75	47,515,750.00	271.44	0.74
Mitrovica North*		0.00						
Zveçan/Zveçane	7,481.00	6,608.55	1,895.00	1,674.00	2,944.30	2,944,300.00	445.53	1.22
Zubin-Potok	6,616.00	0.00	1,696.00		3,700.00	0.00	0.00	0.00
Leposaviq/Leposavić *		0.00						
MITROVICA REGION	206,734.00	181,661.64	36,312.00	33,146.00	54,160.05	50,460,050.00	277.77	0.76
Pejë/Peć	96,450.00	88,829.78	17,682.00	16,569.00	33,502.00	33,502,000.00	377.15	1.03
Istog	39,289.00	27,486.56	6,741.00	4,984.00	10,565.50	10,565,500.00	384.39	1.05
Klinë/Klina	38,496.00	33,821.53	5,843.00	4,958.00	9,160.00	9,160,000.00	270.83	0.74
RWC "Ambienti"	174,235.00	150,137.88	30,266.00	26,511.00	53,227.50	53,227,500.00	354.52	0.97
PEJA REGION	174,235.00	150,137.88	30,266.00	26,511.00	53,227.50	53,227,500.00	354.52	0.97
Prizren	177,781.00	190,467.21	29,625.00	31,739.00	45,672.11	45,672,110.00	239.79	0.66
Suharekë/Suva Reka	59,722.00	55,573.63	9,145.00	5,175.00	9,456.16	9,456,160.00	170.16	0.47
Malishevë/Mališevo	54,613.00	44,427.42	6,879.00	7,151.00	9,515.92	9,515,920.00	214.19	0.59
Rahovec/Orahovac	56,208.00	52,765.51	8,221.00	9,618.00	13,775.26	13,775,260.00	261.07	0.72
Dragash/Dragaš	33,997.00	24,949.37	6,215.00	4,633.00	5,630.00	5,630,000.00	225.66	0.62

⁵ Calculation is based on the amount of municipal waste generated. Calculation does not include voluminous waste

RWC "Ekoregjioni"	382,321.00	368,183.14	60,085.00	58,316.00	84,049.45	84,049,450.00	228.28	0.63
Mamushë/Mamuşa	5,507.00	4,207.32	566.00	440.00	845.00	845,000.00	200.84	0.55
PRIZREN REGION	387,828.00	372,390.46	60,651.00	58,756.00	84,894.45	84,894,450.00	227.97	0.62
Ferizaj/Uroševac	108,610.00	74,859.79	18,359.00	13,125.00	22,366.67	22,366,670.00	298.78	0.82
Kaçanik/Kaçanik	33,409.00	18,273.46	5,547.00	3,436.00	4,086.67	4,086,670.00	223.64	0.61
Shtime/Štimlje	27,324.00	16,484.43	4,158.00	2,918.00	3,969.64	3,969,640.00	240.81	0.66
RWC "Pastërtia"	169,343.00	109,617.69	28,064.00	19,479.00	30,422.98	30,422,980.00	277.54	0.76
Hani Elezit/Elez Han	9,403.00	4,312.18	1,452.00	1,307.00	1,893.70	1,893,700.00	439.15	1.20
Shtërpçë/Štrpce	6,949.00	0.00	1,485.00		0.00	0.00	0.00	0.00
FERIZAJ REGION	185,695.00	113,929.87	31,001.00	20,786.00	32,316.68	32,316,680.00	283.65	0.78
Gjilan/Gnjilane	90,178.00	65,922.41	17,115.00	14,157.00	22,388.43	22,388,430.00	339.62	0.93
Kamenicë/Kamenica	36,085.00	19,394.49	6,419.00	4,088.00	4,924.00	4,924,000.00	253.89	0.70
Vitë/Vitina	46,987.00	21,700.25	7,520.00	3,663.00	5,693.22	5,693,220.00	262.36	0.72
Novobërdë/Novo Brdo	6,729.00	5,043.27	1,449.00	1,122.00	1,896.72	1,896,720.00	376.09	1.03
RWC "Ekohigjiena"	179,979.00	112,060.42	32,503.00	23,030.00	34,902.37	34,902,370.00	311.46	0.85
Partesh/Parteš	1,787.00	4,087.01	418.00	952.00	0.00	0.00	0.00	0.00
Klllokot/Klokot	2,556.00	0.00	510.00		0.00	0.00	0.0	0.0
Ranilug/Ranilug	3,866.00	3,866.00	956.00	956.00	1,000.00	1,000,000.00	258.67	0.71
GJILAN REGION	188,188.00	120,013.43	34,387.00	24,938.00	35,902.37	35,902,370.00	299.15	0.82
Gjakovë/Đakovica	94,556.00	71,582.54	16,303.00	12,524.00	20,176.00	20,176,000.00	281.86	0.77
RWC "Çabрати"	94,556.00	71,582.54	16,303.00	12,524.00	20,176.00	20,176,000.00	281.86	0.77
Deçan/Dečani	40,019.00	32,177.67	5,887.00	5,829.00	8,239.00	8,239,000.00	256.05	0.70
Junik	6,084.00	7,209.94	770.00	975.00	665.00	665,000.00	92.23	0.25
GJAKOVA REGION	140,659.00	110,970.14	22,960.00	19,328.00	29,080.00	29,080,000.00	262.05	0.72
KOSOVË	1,753,922.00	1,583,308.61	300,681.00	279,801.00	430,145.07	430,145,070.00	271.67	0.74

* The municipality did not submit the 2020 Report to KEPA

- Annex 1 presents data related to the amount of municipal waste generated and collected in Kosovo during 2020.
- The results in the table are obtained from processing KAS data and the data reported by municipalities;
- Some municipalities did not provide complete data, either on the number of inhabitants served, or on the amount of waste collected, so, in such cases, it was not possible to calculate the amount of waste generated, and the results indicate zero.

Annex 2. General overview of coverage with the municipal waste collection and transportation service in 2019 and 2020

Municipalities/ RWC Region/ REGION	Number of inhabitants (KAS-2011)	Number of households (KAS-2011)	Number of active businesses in the municipality 2020	Number of institutions in the municipality 2020	Number of households receiving service (2019)	Number of households receiving service (2020)	Number of businesses receiving service (2020)	Number of institutions receiving service (2020)
Prishtinë/Pristina	198,897	40,528	5,723	91	71,245	72,530	5,738	91
Drenas/Glogovac	58,531	8,786	1,393	71	6,976	7,320	600	68
Fushë-Kosovë/Kos. Polje	34,827	6,580	1,370	69	10,825	11,995	810	13
Graçanicë/Gračanica	10,675	2,421	783	61				
Lipjan/Lipljane	57,605	9,497	3,076	93	5,287	7,790	577	2
Obiliq/Obilić	21,549	3,852	530	33	2,841	3,159	201	0
Podujevë/Podujevo	88,499	13,440	3,277	97	7,911	8,369	791	44
RWC "Pastrimi"	470,583	82,683	15,369	454	105,085	111,163	8,717	218
PRISHTINA REGION	470,583	82,683	15,369	454	105,085	111,163	8,717	218
Mitrovicë/Mitrovica	71,909	13,173	1,145	65	13,007	12,895	1,145	65
Skënderaj/Srbica	50,858	7,682	564	78	3,911	4,867	463	70
Vushtrri/Vučitrn	69,870	11,866	884	164	11,866	13,710	884	164
RWC "Uniteti"	192,637	32,721	2,593	307	28,784	31,472	2,492	299
Mitrovica North*								
Zveçan/Zveçane	7,481	1,895	131	19	1,674	1,674	120	19
Zubin-Potok	6,616		249	36				
Leposaviq/Leposavić *								
MITROVICA REGION	206,734	34,616	2,724	326	30,458	33,146	2,612	318
Pejë/Peć	96,450	17,682	2,582	102	16,001	16,569	2,582	102
Istog	39,289	6,741	612	50	4,448	4,984	592	48
Klinë/Klina	38,496	5,843	2,200	70	5,309	4,958	666	58
RWC "Ambienti"	174,235	30,266	5,394	222	25,758	26,511	3,840	208
PEJA REGION	174,235	30,266	5,394	222	25,758	26,511	3,840	208
Prizren	177,781	29,625	3,716	134	31,739	31,739	3,716	134
Suharekë/Suva Reka	59,722	9,145	2,738	64	8,431	7,316	686	41
Malishevë/Mališevo	54,613	6,879	597	69	6,849	7,151	643	67
Rahovec/Orahovac	56,208	8,221			5,817	9,618	1,074	73
Dragash/Dragaš	33,997	6,215	399	77	4,489	4,633	290	67
RWC "Ekoregioni"	382,321	60,085	7,450	344	57,325	60,457	5,335	309
Mamushë/Mamuşa	5,507	566	81	6	425	440	19	6
PRIZREN REGION	387,828	60,651	7,531	350	57,750	60,897	5,354	315
Ferizaj/Uroševac	108,610	18,359	13,741	81	12,183	13,125	1,935	131

Kaçanik/Kaçanik	33,409	5,547	1,120	71	2,632	3,436	253	34
Shtëmë/Štëmlje	27,324	4,158	350	32	2,099	2,918	276	28
RWC "Pastërtia"	169,343	28,064	15,211	184	16,914	19,479	2,464	193
Hani Elezit	9,403	1,452	223	23		1,307	86	9
Shtërpçë	6,949							
FERIZAJ REGION	185,695	29,516	15,434	207	16,914	20,786	2,550	202
Gjilan/Gnjilane	90,178	17,115	4,823	129	10,866	14,157	1,069	131
Kamenicë/Kamenica	36,085	6,419	527	59	2,812	4,088	408	59
Vitë/Vitina	46,987	7,520	-	40	3,283	3,663	414	56
Novobërdë/Novo Brdo	6,729	1,449	88	46	1,050	1,122	72	30
RWC "Ekohigjiena"	179,979	32,503	5,438	274	18,011	23,030	1,963	276
Partesh/Parteš	1,787	418	70	16	960	952	70	16
Kllokot/Klokot	2,556							
Ranillug/Ranilug	3,866	956	30	21	956	956	30	21
GJILAN REGION	188,188	33,877	5,538	311	19,927	24,938	2,063	313
Gjakovë/Đakovica	94,556	16,303		79	12,160	12,524	2,227	77
RWC "Çabradi"	94,556	16,303	0	79	12,160	12,524	2,227	77
Deçan/Dečani	40,019	5,887	1,353	50	3,638	5,829	1,211	50
Junik	6,084	770	102	8	850	975	120	
GJAKOVA REGION	140,659	22,960	1,455	137	16,648	19,328	3,558	127
KOSOVË	1,753,922	296,990	53,445	2,007	272,540	296,769	28,694	1,701

Annex 2.1 Overall coverage rate regarding municipal waste collection and transportation service in 2019 and 2020

Municipalities/ RWC Region/ REGION	Waste collection service coverage rate				
	Household service coverage rate (2019)	Household service coverage rate (2020)	Household service coverage rate increase or decrease 2019 -2020 (points %)	Service coverage rate for businesses (2020)	Service coverage rate for institutions (2020)
Prishtinë/Pristina	100.0%	100.0%	0%	100.3%	100.0%
Drenas/Glogovac	79.4%	83.3%	4%	43.1%	95.8%
Fushë-Kosovë/Kos. Polje	100.0%	100.0%	0%	59.1%	18.8%
Graçanicë/Gračanica	94.6%	0.0%	-95%	0.0%	0.0%
Lipjan/Lipljane	55.7%	82.0%	26%	18.8%	2.2%
Obiliq/Obilić	73.8%	82.0%	8%	37.9%	0.0%
Podujevë/Podujevo	58.9%	62.3%	3%	24.1%	45.4%
RWC "Pastrimi"	84.8%	89.2%	4.4%	56.7%	48.0%
PRISHTINA REGION	84.8%	89.2%	4.4%	56.7%	48.0%
Mitrovicë/Mitrovica	98.7%	97.9%	-1%	100.0%	100.0%
Skënderaj/Srbica	50.9%	63.4%	12%	82.1%	89.7%
Vushtrri/Vučitrn	100.0%	100.0%	0%	100.0%	100.0%
RWC "Uniteti"	83.2%	87.1%	3.9%	96.1%	97.4%
Mitrovica North*					
Zveçan/Zveçane	88.3%	88.3%	0%	91.6%	100.0%
Zubin-Potok	0.0%	0.0%	0%	0.0%	0.0%
Leposaviq/Leposavić *					
MITROVICA REGION	83.2%	90.4%	7.2%	95.9%	97.5%
Pejë/Peć	90.5%	93.7%	3%	100.0%	100.0%
Istog	66.0%	73.9%	8%	100.0%	96.0%
Klinë/Klina	90.9%	84.9%	-6%	30.3%	82.9%
RWC "Ambienti"	85.1%	87.6%	2.5%	71.2%	93.7%
PEJA REGION	85.1%	87.6%	2.5%	71.2%	93.7%
Prizren	107.1%	100.0%	-7%	100.0%	100.0%
Suharekë/Suva Reka	92.2%	80.0%	-12%	25.1%	64.1%
Malishevë/Mališevo	99.6%	100.0%	0%		97.1%
Rahovec/Orahovac	70.8%	100.0%	29%	0.0%	0.0%
Dragash/Dragaš	72.2%	74.5%	2%	72.7%	87.0%
RWC "Ekoregjioni"	95.4%	97.1%	1.7%	71.0%	90.0%
Mamushë/Mamuša	75.1%	77.7%	3%	23.5%	100.0%
PRIZREN REGION	95.2%	94.2%	-1.0%	70.5%	90.0%
Ferizaj/Uroševac	66.4%	71.5%	5%	14.1%	100.0%

Kaçanik/Kaçanik	47.4%	61.9%	14%	22.6%	47.9%
Shtime/Štimlje	50.5%	70.2%	20%	78.9%	87.5%
RWC "Pastërtia"	60.3%	69.4%	9.1%	16.2%	77.7%
Hani Elezit/Elez Han	0.0%	90.0%	90%	38.6%	39.1%
Shtërpçë/Štrpçe	0.0%	0.0%	0%	0.0%	0.0%
FERIZAJ REGION	57.3%	70.4%	13.1%	16.5%	73.4%
Gjilan/Gnjilane	63.5%	82.7%	19%	22.2%	100.0%
Kamenicë/Kamenica	43.8%	63.7%	20%	77.4%	100.0%
Viti/Vitina	43.7%	48.7%	5%	0.0%	100.0%
Novobërdë/Novo Brdo	72.5%	77.4%	5%	81.8%	65.2%
RWC "Ekohigjiena"	58.0%	70.9%	12.9%	28.5%	94.2%
Partesh/Parteš	100.0%	100.0%	0%	100.0%	100.0%
Kllokot/Klokot	0.0%	0.0%	0%	0.0%	0.0%
Ranillug/Ranilug	100.0%	100.0%	0%	100.0%	100.0%
GJILAN REGION	58.8%	72.0%	13.2%	29.8%	94.9%
Gjakovë/Đakovica	74.6%	76.8%	2%	0.0%	97.5%
RWC "Çabrat"	74.6%	76.8%	2.2%	0.0%	97.5%
Deçan/Dečani	61.8%	99.0%	37%	89.5%	100.0%
Juni k	100.0%	100.0%	0%	117.6%	0.0%
GJAKOVA REGION	72.5%	83.3%	10.8%	90.2%	92.7%
KOSOVË	78.5%	85.3%	6.8%	53.7%	84.8%

* The municipality did not submit the 2020 Report to KEPA

- This table presents the general data on coverage with municipal waste collection and transport service for 2019 and 2020
- Municipalities have reported on waste collection and transportation service coverage for households, institutions, and businesses;
- Some municipalities have not provided complete data on service coverage, especially for institutions and businesses, consequently, processing of data encountered difficulties in calculating service coverage for these categories;
- In some municipalities, the coverage rate indicated above 100%, but was registered as 100% for several reasons, such as (1) number of households in the municipality is significantly higher than the one indicated in the 2011 census, or (2) because the municipality has updated the list of clients using the property tax registry, which can be more extensive than the real one;
- In order to avoid distortion of the formula (for the reasons given above), calculation of the coverage rate in several municipalities in cases where the number of households served was higher than the existing number of households, was done by reading the existing number of households;

Annex 3. General overview of fee collection for municipal waste collection and transportation service in 2020

Municipalities/ RWC Region/REGION	Billing for waste collection service in 2020 (€)			Fee collection for waste collection service in 2 2020 (€)		
	Billing for household service (2020)	Billing for businesses service (2020)	Billing for institution service (2020)	Fee collection for household service (2020)	Fee collection for business service (2020)	Fee collection for institution service (2020)
Prishtinë/Pristina	€ 2,697,565.82	€ 541,618.01	€ 167,385.80	€ 2,338,183.50	€ 418,035.00	€ 196,595.00
Drenas/Glogovac	€ 385,428.20	€ 53,843.21	€ 5,246.88	€ 375,339.69	€ 35,139.08	€ 4,911.86
Fushë-Kosovë/K. Polje	€ 593,568.40	€ 68,602.95	€ 23,361.54	€ 578,642.63	€ 35,264.48	€ 27,089.20
Graçanicë/Gračanica	€ 0.00	-	€ 0.00	€ 0.00	€ 0.00	€ 0.00
Lipjan/Lipljane	€ 367,511.80	€ 44,047.99	€ 1,689.65	€ 308,552.59	€ 33,654.82	€ 765.66
Obiliq/Obilić	€ 172,682.70	€ 17,804.49	€ 0.00	€ 161,633.46	€ 16,464.11	€ 0.00
Podujevë/Podujevo	€ 448,979.65	€ 80,312.96	€ 35,571.12	€ 418,994.77	€ 61,381.39	€ 48,483.14
RWC "Pastrimi"	€ 4,665,736.57	€ 806,229.61	€ 233,254.99	€ 4,181,346.64	€ 599,938.88	€ 277,844.86
PRISHTINA REGION	€ 4,665,736.57	€ 806,229.61	€ 233,254.99	€ 4,181,346.64	€ 599,938.88	€ 277,844.86
Mitrovicë/Mitrovica	€ 464,220.00	€ 369,775.68	€ 1,204,671.77	€ 464,220.00	€ 314,309.32	€ 1,120,344.74
Skënderaj/Srbica	€ 213,243.70	€ 76,034.29	€ 47,241.85	€ 177,791.19	€ 72,334.35	€ 52,997.57
Vushtri/Vučitrn	€ 543,600.00	€ 131,486.89	€ 93,190.93	€ 543,600.00	€ 124,349.51	€ 92,259.83
RWC "Uniteti"	€ 1,221,063.70	€ 577,296.86	€ 1,345,104.55	€ 1,185,611.19	€ 510,993.18	€ 1,265,602.14
Mitrovica North*						
Zveçan/Zveçane	€ 0.00	€ 0.00	€ 0.00	€ 0.00	€ 0.00	€ 0.00
Zubin-Potok	€ 0.00	€ 0.00	€ 0.00	€ 0.00	€ 0.00	€ 0.00
Leposaviq/Leposavić *						
MITROVICA REGION	€ 1,221,063.70	€ 577,296.86	€ 1,345,104.55	€ 1,185,611.19	€ 510,993.18	€ 1,265,602.14
Pejë/Peć	€ 877,459.00	€ 298,997.00	€ 71,737.00	€ 817,453.00	€ 276,151.00	€ 71,520.00
Istog	€ 270,714.84	€ 59,696.19	€ 88,085.99	€ 250,031.56	€ 57,536.96	€ 83,885.37
Klinë/Klina	€ 285,555.00	€ 54,238.00	€ 40,452.50	€ 229,596.00	€ 55,072.75	€ 31,758.35
RWC "Ambienti"	€ 1,433,728.84	€ 412,931.19	€ 200,275.49	€ 1,297,080.56	€ 388,760.71	€ 187,163.72
REGIONI PEJËS	€ 1,433,728.84	€ 412,931.19	€ 200,275.49	€ 1,297,080.56	€ 388,760.71	€ 187,163.72
Prizren	€ 1,027,114.92	€ 0.00	€ 0.00	€ 1,027,114.92	€ 0.00	€ 0.00
Suharekë/Suva Reka	€ 383,434.93	€ 78,463.07	€ 23,417.22	€ 363,721.00	€ 71,545.60	€ 21,606.13
Malishevë/Mališevo	€ 315,684.22	€ 71,040.58	€ 49,102.69	€ 252,091.67	€ 51,727.45	€ 54,071.95
Rahovec/Orahovac	€ 414,470.00	€ 122,019.76	€ 27,410.86	€ 325,945.10	€ 128,355.00	€ 23,419.86
Dragash/Dragaš	€ 172,001.87	€ 26,855.25	€ 14,426.48	€ 136,165.63	€ 22,696.76	€ 14,620.05
RWC "Ekoregjioni"	€ 2,312,705.94	€ 298,378.66	€ 114,357.25	€ 2,105,038.32	€ 274,324.81	€ 113,717.99
Mamushë/Mamuşa	€ 0.00	€ 0.00	€ 0.00	€ 23,760.00	€ 2,599.20	€ 2,432.00
PRIZREN REGION	€ 2,312,705.94	€ 298,378.66	€ 114,357.25	€ 2,128,798.32	€ 276,924.01	€ 116,149.99
Ferizaj/Uroševac	€ 721,314.13	€ 234,027.08	€ 122,089.91	€ 650,218.03	€ 191,850.55	€ 112,786.79
Kaçanik/Kaçanik	€ 171,826.27	€ 17,526.18	€ 30,020.26	€ 156,339.00	€ 12,585.35	€ 40,500.85

Shtime/Štimlje	€ 142,359.00	€ 23,805.94	€ 29,300.00	€ 112,047.06	€ 23,316.44	€ 30,453.00
RWC "Pastërtia"	€ 1,035,499.40	€ 275,359.20	€ 181,410.17	€ 918,604.09	€ 75,917.45	€ 61,246.88
Han i Elezit/Elez Han	€ 72,135.00	€ 26,710.60	€ 17,190.00	€ 72,690.00	€ 26,821.40	€ 16,307.00
Shtërpçë/Štrpçe	€ 0.00	€ 0.00	€ 0.00	€ 0.00	€ 0.00	€ 0.00
FERIJAZ REGION	€ 1,107,634.40	€ 302,069.80	€ 198,600.17	€ 991,294.09	€ 102,738.85	€ 77,553.88
Gjilan/Gnjilane	€ 680,475.00	€ 194,668.31	€ 73,061.43	€ 615,427.00	€ 144,236.21	€ 78,993.47
Kamenicë/Kamenica	€ 196,717.08	€ 44,641.95	€ 19,498.06	€ 170,071.58	€ 37,878.35	€ 17,832.49
Viti/Vitina	€ 208,041.66	€ 41,034.70	€ 24,986.20	€ 190,786.72	€ 37,406.69	€ 29,656.42
Novobërdë/N. Brdo	€ 61,660.00	€ 0.00	€ 0.00	€ 53,466.16	€ 0.00	€ 0.00
RWC "Ekohigjiena"	€ 1,146,893.74	€ 280,344.96	€ 117,545.69	€ 1,029,751.46	€ 219,521.25	€ 126,482.38
Partesh/Parteš	€ 0.00	€ 0.00	€ 0.00	€ 0.00	€ 0.00	€ 0.00
Kllokot/Klokot	€ 0.00	€ 0.00	€ 0.00	€ 0.00	€ 0.00	€ 0.00
Ranillug/Ranilug	€ 10,797.60	€ 1,334.60	€ 0.00	€ 10,797.60	€ 1,334.60	€ 0.00
GJILAN REGION	€ 1,157,691.34	€ 281,679.56	€ 117,545.69	€ 1,040,549.06	€ 220,855.85	€ 126,482.38
Gjakovë/Đakovica	€ 644,112.00	€ 188,609.00	€ 70,023.00	€ 597,084.00	€ 179,549.00	€ 79,208.00
RWC "Çabrat"	€ 644,112.00	€ 188,609.00	€ 70,023.00	€ 597,084.00	€ 179,549.00	€ 79,208.00
Deçan/Deçani	€ 325,258.00	€ 78,472.80	€ 29,040.00	€ 263,323.00	€ 54,293.00	€ 27,878.40
Junik	€ 54,166.67	€ 13,033.33	€ 7,866.67	€ 53,777.78	€ 12,054.44	€ 7,866.67
GJAKOVA REGION	€ 1,023,536.67	€ 280,115.13	€ 106,929.67	€ 914,184.78	€ 245,896.44	€ 114,953.07
KOSOVË	€ 12,922,097.45	€ 2,958,700.81	€ 2,316,067.81	€ 11,738,864.64	€ 2,346,107.92	€ 2,165,750.04

Annex 3.1. Fee collection rate for municipal waste collection and transportation in 2020 (%)

Fee collection rate for waste collection service in 2020 (%)			
Municipalities/ RWC Region/REGION	Household service fee collection rate (2020)	Business service fee collection rate (2020)	Institution service fee collection rate (2020)
Prishtinë/Prishtina	86.68%	77.18%	117.45%
Drenas/Glogovac	97.38%	65.26%	93.61%
Fushë-Kosovë/Kos. Polje	97.49%	51.40%	115.96%
Graçanicë/Gračanica	0.0%	0.0%	0.0%
Lipjan/Lipljane	83.96%	76.40%	45.31%
Obiliq/Obilić	93.60%	92.47%	0.0
Podujevë/Podujevo	93.32%	76.43%	136.30%
RWC "Pastrimi"	89.62%	74.41%	119.12%
PRISHTINA REGION	89.62%	74.41%	119.12%
Mitrovicë/Mitrovica	100.00%	85.00%	93.00%
Skënderaj/Srbica	83.37%	95.13%	112.18%
Vushtrri/Vučitrn	100.00%	94.57%	99.00%
RWC "Uniteti"	97.10%	88.51%	94.09%
Mitrovica North*			
Zveçan/Zveçane	0.0%	0.0%	0.0%
Zubin-Potok	0.0%	0.0%	0.0%
Leposaviq/Leposavić *			
MITROVICA REGION	97.10%	88.51%	94.09%
Pejë/Peć	93.16%	92.36%	99.70%
Istog	92.36%	96.38%	95.23%
Klinë/Klina	80.40%	101.54%	78.51%
RWC "Ambienti"	90.47%	94.15%	93.45%
PEJA REGION	90.47%	94.15%	93.45%
Prizren	100.00%	0.0%	0.0%
Suharekë/Suva Reka	94.86%	91.18%	92.27%
Malishevë/Mališevo	79.86%	72.81%	110.12%
Rahovec/Orahovac	78.64%	105.19%	85.44%
Dragash/Dragaš	79.17%	84.52%	101.34%
RWC "Ekoregjioni"	91.02%	91.94%	99.44%
Mamushë/Mamuşa	0.0%	0.0%	0.0%
PRIZREN REGION	92.05%	92.81%	101.57%

Ferizaj/Uroševac	90.14%	81.98%	92.38%
Kaçanik/Kaçanik	90.99%	71.81%	134.91%
Shtëmë/Štimlje	78.71%	97.94%	103.94%
RWC "Pastertia"	88.71%	27.57%	33.76%
Hani Elezit/Elez Han	100.77%	100.41%	94.86%
Shtërpcë/Štrpce	0.0%	0.0%	0.0%
FERIZAJ REGION	89.50%	34.01%	39.05%
Gjilan/Gnjilane	90.44%	74.09%	108.12%
Kamenicë/Kamenica	86.45%	84.85%	91.46%
Viti/Vitina	91.71%	91.16%	118.69%
Novobërdë/N. Brdo	86.71%	0.0%	0.0%
RWC "Ekohigjiena"	89.79%	78.30%	107.60%
Partesh/Parteš	0.0%	0.0%	0.0%
Kllokot/Klokot	0.0%	0.0%	0.0%
Ranillug/Ranilug	100.00%	100.00%	0.0%
GJILAN REGION	89.88%	78.41%	107.60%
Gjakovë/Đakovica	92.70%	95.20%	113.12%
RWC "Çabrati"	92.70%	95.20%	113.12%
Deçan/Dečani	80.96%	69.19%	96.00%
Junik	99.28%	92.49%	100.00%
GJAKOVA REGION	89.32%	87.78%	107.50%
KOSOVË	90.84%	79.30%	93.51%

* The municipality did not submit the 2020 Report to KEPA

- In some cases, the data reported by the municipality have not been validated by the operator during the verification process, consequently were not included in the calculation
- The waste management service fee collection rate in many cases exceeds 100% for the fact that in the calculation were included clients' old debts.
- In general, the data reported by municipalities, in general, did not change after the verification and validation process. In subsequent reports the municipalities should address findings of the verification process, otherwise, the process will not be evidence as complete.
- Data on billing and fee collection resulted in discrepancies, somewhere smaller and somewhere larger, between the Municipality and the Operator. In such situations, the documentary evidence provided by the Operator prevailed in the process.
- In some cases, the operator's documentary evidence did not include billing of households, businesses, and institutions, which hindered the verification process. Consequently, the verification process was considered incomplete.

Annex 4. Illegal dumpsites in 2020

	Municipalities/RWC Region/ REGION	Illegal dumpsites by size			Illegal dumpsites by fraction (type)					Total illegal dumpsites
		Small dumpsites (1 – 5 waste bags of 200 liters)	Medium dumpsites (6-20 waste bags of 200 l)	Large dumpsites (> 20 waste bags of 200 liters)	Municipal waste	Construc. and demolition waste	Industrial. and hazardous waste	Voluminous waste	Other waste	
1	Prishtinë/Prishtina	1	3	2	0.00%	50.00%	0.00%	0.00%	50.00%	6
2	Drenas/Glogovac	8	3	13	25.00%	25.00%	0.00%	4.00%	46.00%	24
3	Fushë-Kosovë/Kos. Polje	2	5	10	0.00%	47.00%	0.00%	0.00%	53.00%	17
4	Gračanicë/Gračanica	3	16	14	27.00%	42.00%	0.00%	0.00%	30.00%	33
5	Lipjan/Lipljane	10	33	83	25.00%	6.00%	0.00%	0.00%	69.00%	126
6	Obiliq/Obilić	2	6	15	35.00%	26.00%	0.00%	0.00%	39.00%	23
7	Podujevë/Podujevo	35	9	4	65.00%	19.00%	0.00%	0.00%	16.00%	48
RWC "Pastrimi"		61	75	141	25.3%	30.7%	0.0%	0.6%	43.3%	277
R1	PRISHTINA REGION	61	75	141	25.3%	30.7%	0.0%	0.6%	43.3%	277
8	Mitrovicë/Mitrovica	3	10	8	19.00%	38.00%	0.00%	0.00%	43.00%	21
9	Skënderaj/Srbica	5	4	10	26.00%	0.00%	0.00%	0.00%	74.00%	19
10	Vushtrri/Vučitrn	2	2	2	17.00%	50.00%	0.00%	0.00%	33.00%	6
RWC "Uniteti"		10	16	20	20.7%	29.3%	0.0%	0.0%	50.0%	46
11	Mitrovica North *									0
12	Zveçan/Zveçane	1	15	18	6.00%	18.00%	0.00%	0.00%	76.00%	34
13	Zubin-Potok	8	8	4	30.00%	0.00%	0.00%	0.00%	70.00%	21
14	Leposaviq/Leposavić *									0
R2	MITROVICA REGION	19	39	42	19.6%	21.2%	0.0%	0.0%	59.2%	101
15	Pejë/Peć	48	31	15	66.00%	4.00%	0.00%	1.00%	29.00%	94
16	Istog	6	5	6	0.00%	18.00%	24.00%	0.00%	58.00%	17
17	Klinë/Klina	4	9	32	16.00%	4.00%	0.00%	0.00%	80.00%	45
RWC "Ambienti"		58	45	53	27.3%	8.7%	8.0%	0.3%	55.7%	156
R3	REGIONI PEJËS	58	45	53	27.3%	8.7%	8.0%	0.3%	55.7%	156
18	Prizren	19	11	4	0.00%	0.00%	0.00%	0.00%	100.00%	34
19	Suharekë/Suva Reka	24	21	16	16.00%	26.00%	0.00%	0.00%	58.00%	61
20	Malishevë/Mališevo	3	14	59	11.00%	60.00%	0.00%	0.00%	29.00%	76
21	Rahovec/Orahovac	5	8	5	28.00%	6.00%	0.00%	0.00%	66.00%	18

22	Dragash/Dragaš	7	9	29	18.00%	29.00%	0.00%	2.00%	51.00%	45
RWC "Ekoregioni"		58	63	113	14.6%	24.2%	0.0%	0.4%	60.8%	234
23	Mamushë/Mamuša	1	5	16	0.00%	0.00%	0.00%	0.00%	100.00%	22
R4	PRIZREN REGION	59	68	129	12.2%	20.2%	0.0%	0.3%	67.3%	256
24	Ferizaj/Uroševac	1	5	24	3.00%	23.00%	0.00%	0.00%	74.00%	30
25	Kaçanik/Kaçanik	1	1	16	11.00%	17.00%	0.00%	0.00%	72.00%	18
26	Shtime/Štimlje	2	10	8	40.00%	15.00%	0.00%	0.00%	45.00%	20
RWC "Pastërtia"		4	16	48	18.0%	18.3%	0.0%	0.0%	63.7%	68
27	Hani Elezit/Elezhan	0	1	6	0.00%	14.00%	0.00%	0.00%	86.00%	7
28	Shtërpçë/Štrpce	18	14	11	5.00%	2.00%	0.00%	0.00%	93.00%	43
R5	FERIZAJ REGION	22	31	65	11.8%	14.2%	0.0%	0.0%	74.0%	118
29	Gjilan/Gnjilane	24	22	7	6.00%	2.00%	0.00%	0.00%	92.00%	53
30	Kamenicë/Kamenica	1	9	6	19.00%	13.00%	0.00%	0.00%	68.00%	16
31	Viti/Vitina	0	1	3	25.00%	50.00%	0.00%	0.00%	25.00%	4
32	Novobërdë/N. Brdo	15	41	20	46.00%	13.00%	0.00%	0.00%	41.00%	76
RWC "Ekohigjiena"		40	73	36	24.0%	19.5%	0.0%	0.0%	56.5%	149
33	Partesh/Parteš	7	12	31	36.00%	22.00%	0.00%	0.00%	42.00%	50
34	Kllokot/Klokot	2	1	4	29.00%	14.00%	0.00%	0.00%	57.00%	7
35	Ranilug/Ranilug	0	8	28	0.00%	11.00%	0.00%	0.00%	89.00%	36
R6	GJILAN REGION	49	94	99	23.0%	17.9%	0.0%	0.0%	59.1%	242
36	Gjakovë/Đakovica	3	5	23	0.00%	6.00%	0.00%	0.00%	94.00%	31
RWC "Çabrat"		3	5	23	0.0%	6.0%	0.0%	0.0%	94.0%	31
37	Deçan/Dečani	0	2	6	0.00%	13.00%	0.00%	0.00%	87.00%	8
38	Junik	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0
R7	GJAKOVA REGION	3	7	29	0.0%	9.5%	0.0%	0.0%	90.5%	39
KOSOVË		271	359	558	18.6%	19.5%	0.7%	0.2%	61.0%	1189

* The municipality did not submit the 2020 Report to KEPA

- Data presented were reported by municipalities based on the field registration in April 2021;
- Data reported data have undergone a verification process.

Annex 5. Access to infrastructure for municipal waste separation at source in 2020

Municipalities/ RWC Region/REGION	General Information		Access to infrastructure for waste separation at source	
	Number of inhabitants (KAS-2011)	Number of households (KAS-2011)	Number of households with access to infrastructure for separation at source (2020)	Percentage of households have access to with access to infrastructure for separation at source (2020)
Prishtinë/Pristina	198,897.00	40,528.00	0	0.0%
Drenas/Glogovac	58,531.00	8,786.00	326	3.7%
Fushë-Kosovë/Kos. Polje	34,827.00	6,580.00	285	4.3%
Graçanicë/Gračanica	10,675.00	2,421.00	0	0.0%
Lipjan/Lipljane	57,605.00	9,497.00	0	0.0%
Obiliq/Obilić	21,549.00	3,852.00	0	0.0%
Podujevë/Podujevo	88,499.00	13,440.00	316	2.4%
	470,583.00	85,104.00	927	1.1%
PRISHTINA REGION	470,583.00	85,104.00		0.0%
Mitrovicë/Mitrovica	71,909.00	13,173.00	12,998	98.7%
Skënderaj/Srbica	50,858.00	7,682.00	0	0.0%
Vushtrri/Vučitrn	69,870.00	11,866.00	0	0.0%
	192,637.00	32,721.00	12,998	39.7%
Mitrovica North*			0	#DIV/0!
Zveçan/Zveçane	7,481.00	1,895.00	0	0.0%
Zubin-Potok			0	#DIV/0!
Leposaviq/Leposavić *			0	#DIV/0!
MITROVICA REGION	200,118.00	34,616.00	12,998	37.5%
Pejë/Peć	96,450.00	17,682.00	366	2.1%
Istog	39,289.00	6,741.00	0	0.0%
Klinë/Klina	38,496.00	5,843.00	0	0.0%
	174,235.00	30,266.00	366	1.2%
PEJA REGION	174,235.00	30,266.00	366	1.2%
Prizren	177,781.00	29,625.00	0	0.0%
Suharekë/Suva Reka	59,722.00	9,145.00	0	0.0%
Malishevë/Mališevo	54,613.00	6,879.00	0	0.0%
Rahovec/Orahovac	56,208.00	8,221.00	270	3.3%
Dragash/Dragaš	33,997.00	6,215.00	0	0.0%
	382,321.00	60,085.00	270	0.4%

Mamushë/Mamuşa	5,507.00	566.00	0	0.0%
PRIZREN REGION	387,828.00	60,651.00	270	0.4%
Ferizaj/Uroševac	108,610.00	18,359.00	500	2.7%
Kaçanik/Kaçanik	33,409.00	5,547.00	0	0.0%
Shtëmë/Štimlje	27,324.00	4,158.00	0	0.0%
	169,343.00	28,064.00	500	1.8%
Hani Elezit/Elëz Han	9,403.00	1,452.00	0	0.0%
Shtërpçë/Štrpce	6,949.00	1,485.00	0	0.0%
FERIZAJ REGION	185,695.00	31,001.00	500	1.6%
Gjilan/Gnjilane	90,178.00	17,115.00	0	0.0%
Kamenicë/Kamenica	36,085.00	6,419.00	0	0.0%
Viti/Vitina	46,987.00	7,520.00	0	0.0%
Novobërdë/N. Brdo	6,729.00	1,449.00	0	0.0%
	179,979.00	32,503.00	0	0.0%
Partesh/Parteš	1,787.00	418.00	0	0.0%
Kllokot/Klokot	2,556.00	510.00	0	0.0%
Ranillug/Ranilug	3,866.00	956.00	0	0.0%
GJILAN REGION	188,188.00	34,387.00	0	0.0%
Gjakovë/Đakovica	94,556.00	16,303.00	0	0.0%
	94,556.00	16,303.00	0	0.0%
Deçan/Dečani	40,019.00	5,887.00	0	0.0%
Junik	6,084.00	770.00	0	0.0%
GJAKOVA REGION	140,659.00	22,960.00	0	0.0%
	1,747,306.00	298,985.00	15,061.00	5.0%

* The municipality did not submit the 2020 Report to KEPA

- This annex presents the data on municipal waste separation at the source. Only some municipalities, such as: Fushë Kosovë/Kosovo Polje, Drenas/Glogovac, Mitrovicë/Mitrovica, Pejë/Pejë, Rahovec/Orahovac and Ferizaj/Uroševac have reported on this type of activity;
- Data reported by these municipalities have been validated through a verification process based on relevant documentary evidence.

Annex 6. Compliance with waste management legal and planning framework in 2020.

Municipalities / RWC Region / REGION	1.Development and approval of MWMP	2.Development and adoption of Regulation on Municipal Waste Management	3.Environment Protection Officer	4.Environment Inspector	5. Contracting of licensed operators for collection and transportation of municipal waste
Prishtinë/Pristina	1	1	1	0	1
Drenas/Glogovac	1	1	1	1	1
Fushë-Kosovë/Kos. Polje	1	1	1	0	1
Graçanicë/Gračanica	1	1	1	1	1
Lipjan/Lipljane	1	1	1	1	1
Obiliq/Obilić	1	1	1	1	1
Podujevë/Podujevo	1	1	1	1	1
RWC "Pastrimi"	100%	100%	100%	71%	100%
PRISHTINA REGION	100%	100%	100%	71%	100%
Mitrovicë/Mitrovica	1	1	1	1	1
Skënderaj/Srbica	1	1	1	1	1
Vushtrri/Vučitrn	1	1	1	1	1
RWC "Uniteti"	100%	100%	100%	100%	100%
Mitrovica North*					
Zveçan/Zveçane	1	0	1	1	0
Zubin-Potok	1	0	0	0	0
Leposaviq/Leposavić *					
MITROVICA REGION	100%	60%	80%	80%	60%
Pejë/Peć	1	1	1	1	1
Istog	1	1	1	1	0
Klinë/Klina	1	1	1	1	0
RWC "Ambienti"	100%	100%	100%	100%	33%
PEJA REGION	100%	100%	100%	100%	33%
Prizren	1	1	1	1	1
Suharekë/Suva Reka	1	1	1	1	1
Malishevë/Mališevo	0	0	1	1	1
Rahovec/Orahovac	1	1	1	1	0
Dragash/Dragaš	0	1	1	1	1
RWC "Ekoregjioni"	60%	80%	100%	100%	80%
Mamushë/Mamuša	1	1	1	1	1

PRIZREN REGION	67%	83%	100%	100%	83%
Ferizaj/Uroševac	1	0	1	1	0
Kaçanik/Kaçanik	1	1	1	1	1
Shtëmë/Štimlje	1	1	1	1	1
RWC "Pastërtia"	100%	67%	100%	100%	67%
Hani Elezit/Ellez Han	1	1	1	1	1
Shtërpçë/Štrpçe	0	0	0	0	0
FERIZAJ REGION	80%	60%	80%	80%	60%
Gjilan/Gnjilane	1	1	1	1	1
Kamenicë/Kamenica	1	1	1	1	1
Viti/Vitina	1	1	1	1	1
Novobërdë/N. Brdo	1	0	1	1	1
RWC "Ekohigjiena"	100%	75%	100%	100%	100%
Partesh/Parteš	1	1	0	0	0
Kllokot/Klokot	1	0	0	0	0
Ranillug/Ranilug	0	0	1	0	0
GJILAN REGION	86%	57%	71%	57%	57%
Gjakovë/Đakovica	1	1	1	1	0
RWC "Çabrati"	100%	100%	100%	100%	0%
Deçan/Dečani	1	1	1	1	1
Junik	1	1	1	1	1
GJAKOVA REGION	100%	100%	100%	100%	67%
KOSOVË- nr. i komunave që kanë zbatuar procesin	31	28	32	29	25
KOSOVË-mesatarja e realizimit të procesit/eve	86.1%	77.8%	88.9%	80.6%	69.4%

Annex 6.1. Compliance with waste management legal and planning framework in 2020.

Municipalities / RWC Region / REGION	6. Contracting of licensed operators for collection and transportation of C&D waste ²	7. Establishment of service fees through the fee-setting process	8. Designation of a facility for C&D waste	9. Organizational structure of the municipal inspectorate	10. Report on Imposition of mandatory fines.	Nr. of processes implemented
Prishtinë/Prishtina	0	1	1	1	1	8
Drenas/Glogovac	0	1	1	1	1	9
Fushë-Kosovë/Kos. Polje	0	1	0	1	1	7
Graçanicë/Gračanica	0	1	1	1	1	9
Lipjan/Lipljane	0	1	1	1	1	9
Obiliq/Obilić	0	1	0	1	1	8
Podujevë/Podujevo	0	1	1	1	1	9
RWC "Pastrimi"	0%	100%	71%	100%	100%	84%
PRISHTINA REGION	0%	100%	71%	100%	100%	84%
Mitrovicë/Mitrovica	0	1	1	1	1	9
Skënderaj/Srbica	0	1	1	1	1	9
Vushtri/Vučitrn	0	1	1	1	1	9
RWC "Uniteti"	0%	100%	100%	100%	100%	90%
Mitrovica North						
Zveçan/Zveçane	0	1	0	1	0	5
Zubin-Potok	0	1	0	0	0	2
Leposaviq/Leposavić						
MITROVICA REGION	0%	100%	60%	80%	60%	68%
Pejë/Peć	0	1	1	1	1	9
Istog	0	1	0	1	1	7
Klinë/Klina	0	1	0	1	1	7
RWC "Ambienti"	0%	100%	33%	100%	100%	77%
PEJA REGION	0%	100%	33%	100%	100%	77%
Prizren	0	1	1	1	1	9
Suharekë/Suva Reka	0	0	1	1	1	8
Malishevë/Mališevo	0	0	1	1	1	6
Rahovec/Orahovac	0	0	1	1	1	7
Dragash/Dragaš	0	0	0	1	1	6
RWC "Ekoregioni"	0%	20%	80%	100%	100%	72%
Mamushë/Mamuša	0	0	1	1	1	8
PRIZREN REGION	0%	17%	83%	100%	100%	73%
Ferizaj/Uroševac	0	1	1	1	0	6

Kaçanik/Kaçanik	0	1	1	1	0	8
Shtëmë/Shtëmje	0	1	1	1	1	9
RWC "Pastërtia"	0%	100%	100%	100%	33%	77%
Hani Elezit/Elez Han	0	1	1	1	1	9
Shtërpçë/Štrpçe	0	0	0	0	0	0
FERIZAJ REGION	0%	80%	80%	80%	40%	64%
Gjilan/Gnjilane	0	0	1	1	1	8
Kamenicë/Kamenica	0	0	1	1	1	8
Viti/Vitina	0	0	1	1	1	8
Novobërdë/N. Brdo	0	0	0	1	0	5
RWC "Ekohigjiena"	0%	0%	75%	100%	75%	73%
Partesh/Parteš	0	0	1	0	1	4
Kllokot/Klokot	0	0	0	0	1	2
Ranillug/Ranilug	0	0	0	0	1	2
GJILAN REGION	0%	0%	57%	57%	86%	53%
Gjakovë/Đakovica	0	1	0	1	1	7
RWC "Çabratii"	0%	100%	0%	33%	33%	57%
Dečan/Dečani	0	1	1	1	0	8
Junik	0	0	1	1	1	8
GJAKOVA REGION	0%	67%	67%	100%	67%	77%
KOSOVË- Nr. of municipalities that implemented the process	0	22	24	31	28	25
KOSOVË- average of pro implementation	0.0%	61.1%	66.7%	86.1%	77.8%	69.4%

* The municipality did not submit the 2020 Report to KEPA

0 The process was implemented;

1 The process was not implemented;

2 Process 6. Contracting licensed operators for C&D waste collection and transportation results with 0 implementation rate because there are no licensed operators for this activity in Kosovo. Some municipalities have taken initiatives in this regard, but since the companies are not licensed, the requirement was registered as not met;

- Some municipalities have reported draft documents on certain processes such as MWMPs or MWMRs, which were not registered as completed processes;

- For some processes such as: the appointment of the municipal waste management officer and the environmental inspector, the municipalities have stated that they have implemented these processes according to reporting requirements, but this could not be validated by relevant documentary evidence.
- In general, the municipalities have reported on the implementation of processes by reporting requirements, however, the verification and validation process revealed deviations and inconsistencies between the documentation submitted and the reporting requirements