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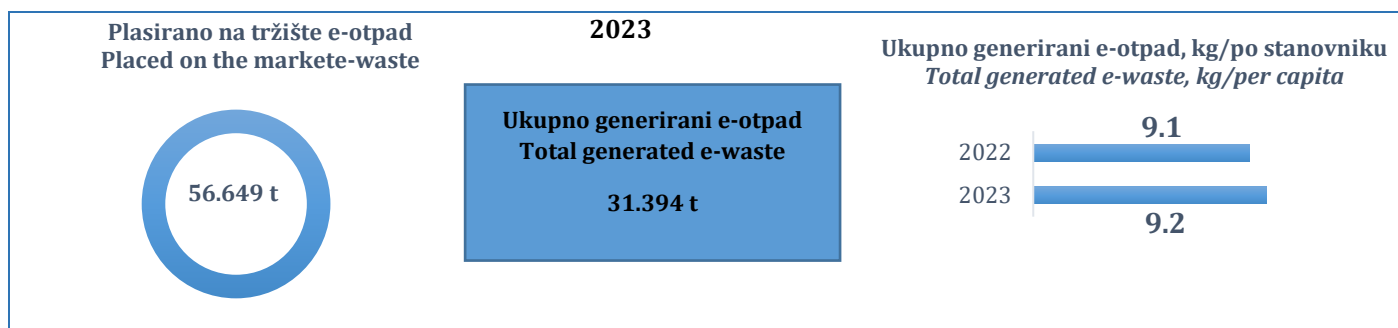
GODINA/ YEAR IV

SARAJEVO, 11.11.2025.

BROJ/ NUMBER 1

OKOLIŠ ENVIRONMENT

ELEKTRIČNI I ELEKTRONIČKI OTPAD *Electrical and electronic waste*



Električna i elektronička oprema plasirana na tržište, Bosna i Hercegovina *Electrical and electronic equipment placed on the market, Bosnia and Herzegovina*

tona

Ukupno plasirano na tržište (POM), referentna 2023
Total Placed on the Market (POM), referent 2023

56.649

Električna i elektronička oprema plasirana na tržište (EU6), Bosna i Hercegovina, 2023 *Electrical and electronic equipment placed on the market (EU6), Bosnia and Herzegovina, 2023*

tona
tonnes

Oprema za izmjenu temperature <i>Temperature exchange equipment</i>	15.871
Ekrani, monitori i oprema koja sadrži ekrane (...) <i>Screens, monitors, and equipment containing screens (...)</i>	2.110
Lampe <i>Lamps</i>	244
Velika oprema (isključujući fotonaponske panele) <i>Large equipment (excluding photovoltaic panels)</i>	18.258
Fotonaponski paneli (uključujući pretvarače) <i>Photovoltaic panels (incl. converters)</i>	7.187
Mala oprema <i>Small equipment</i>	11.267
Mala informatička i telekomunikacijska oprema <i>Small IT and telecommunication equipment</i>	1.712

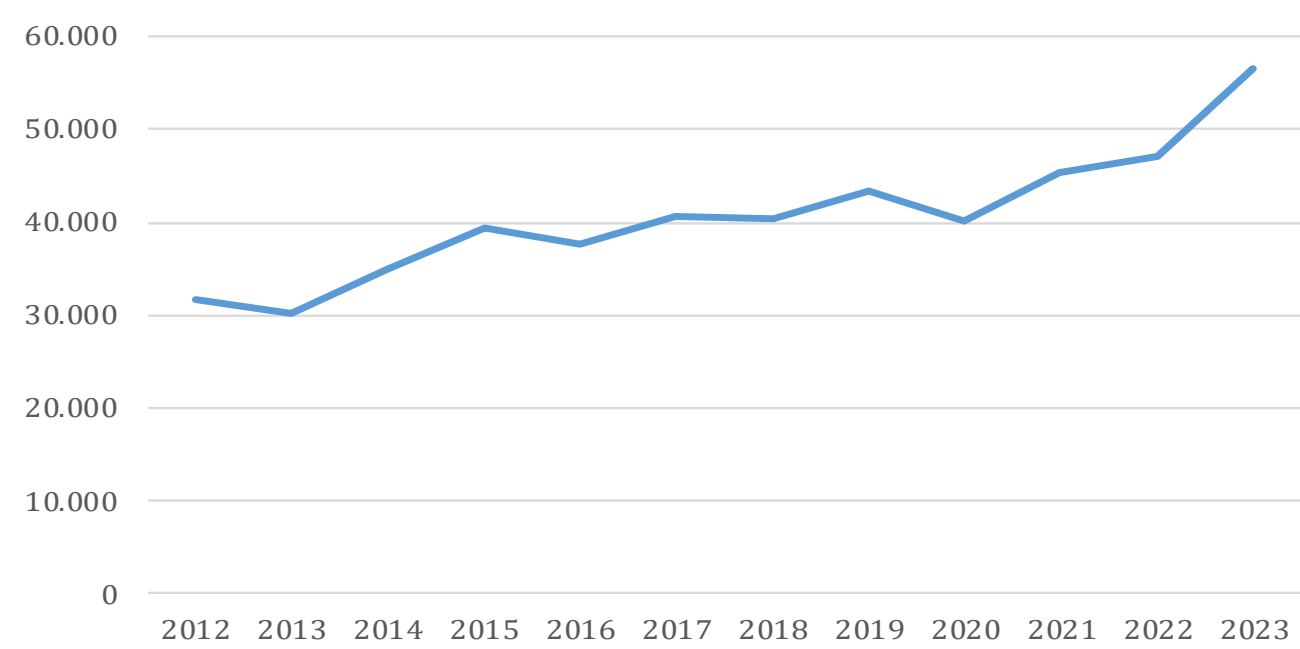
Ukupno generirani električni i elektronički otpad, Bosna i Hercegovina Total generated electrical and electronic waste, Bosnia and Herzegovina tonnes	tona
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Ukupno generirani e-otpad 2023. godina <i>Total E-waste generated,2023</i>	31.394
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Ukupno generirani električni i elektronički otpad (EU6), Bosna i Hercegovina 2023. Total generated electrical and electronic waste (EU6), Bosnia and Herzegovina 2023	tona tonnes
Oprema za izmjenu temperature Temperature exchange equipment	6.823
Ekrani, monitori i oprema koja sadrži ekrane (..) Screens, monitors, and equipment containing screens (..)	2.233
Lampe Lamps	279
Velika oprema (isključujući fotonaponske panele) Large equipment (excluding photovoltaic panels)	10.086
Fotonaponski paneli (uključujući pretvarače) Photovoltaic panels (incl. converters)	8
Mala oprema Small equipment	10.196
Mala informatička i telekomunikacijska oprema Small IT and telecommunication equipment	1.769

G. 1.1. Električna i elektronička oprema plasirana na tržište, Bosna i Hercegovina, 2012-2023, u tonama

G 1.1. Electrical and electronic equipment placed on the market, Bosnia and Herzegovina, 2012-2023, in tonnes



Prikazani su podaci o električnoj i elektroničkoj opremi plasiranoj na tržište sukladno zahtjevima Direktive 2012/19/EU o otpadnoj električnoj i elektroničkoj opremi (OEEO).

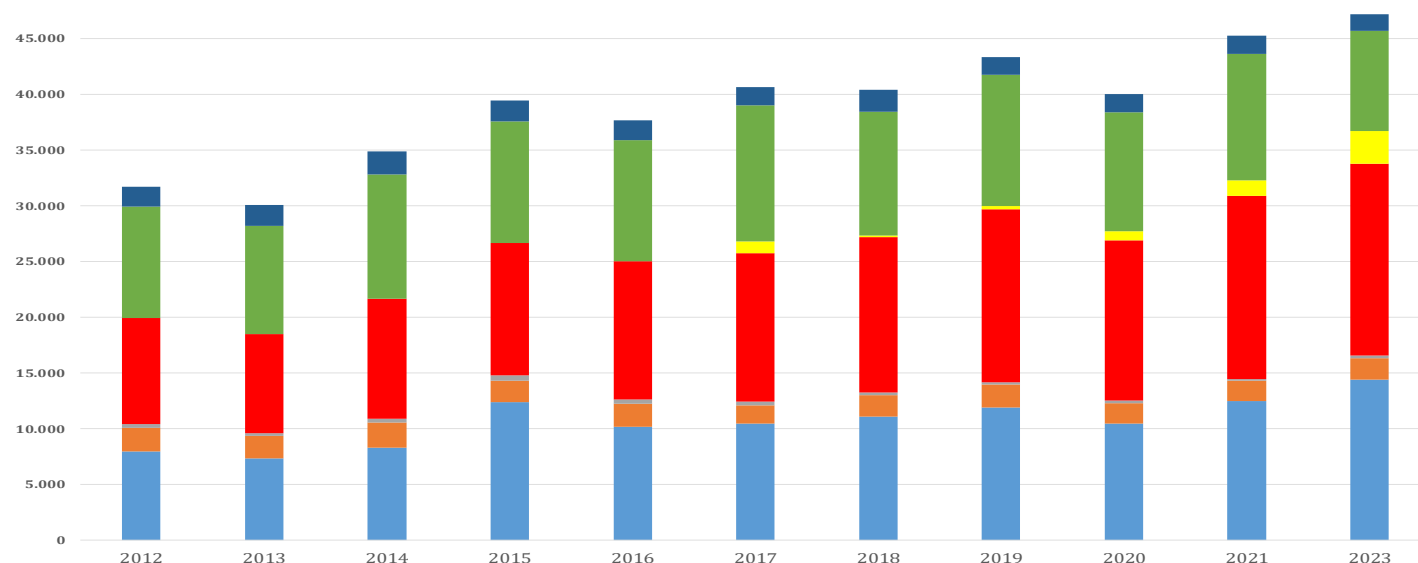
Između 2012. i 2023. godine, količina električne i elektroničke opreme koja se plasirala na tržište Bosne i Hercegovine povećala se sa skoro 32 tis.tona u 2012 godini na skoro 57 tis.tona. Uočeni pad za 2020. godinu u odnosu na 2019. godinu pripisuje se negativnom utjecaju pandemije COVID 2019 na kompletnu ekonomiju Bosne i Hercegovine tijekom 2020. godine.

Data are presented on electrical and electronic equipment placed on the market in accordance with the requirements of Directive 2012/19/EU on waste electrical and electronic equipment (OEEO).

In the period from 2012 to 2023, the amount of electrical and electronic equipment placed on the market of Bosnia and Herzegovina increased from 32 thousand tons in 2012 to almost 57 thousand tons. The noticed decrease for 2020 compared to 2019 is attributed to the negative impact of the COVID 2019 pandemic on the entire economy of Bosnia and Herzegovina during 2020.

G. 1.2. Električna i elektronička oprema plasirana na tržište (EU6), Bosna i Hercegovina, 2012-2023, u tonama

G 1.2. Electrical and electronic equipment placed on the market (EU6), Bosnia and Herzegovina, 2012-2023, in tonnes



Legenda/Legend:

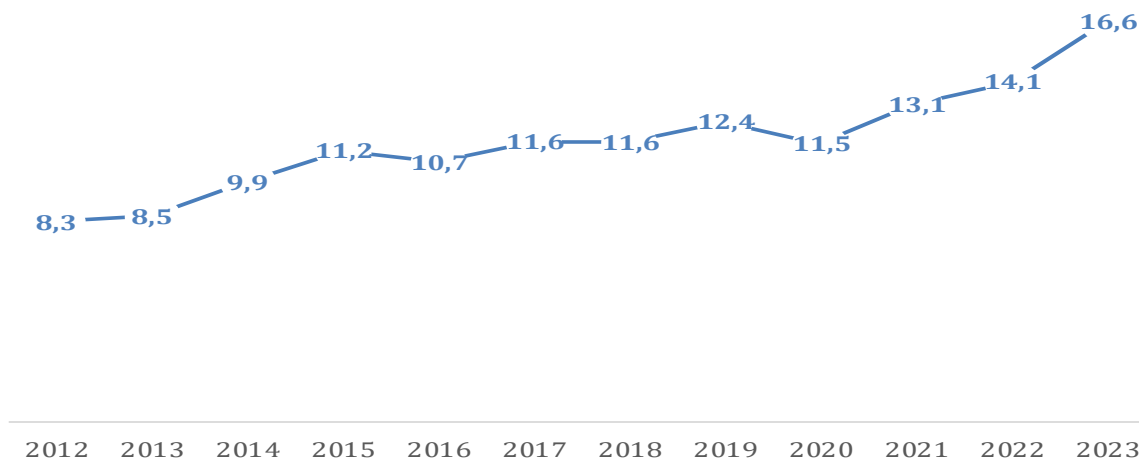
- Oprema za izmjenu temperature /Temperature exchange equipment
- Ekrani, monitori i oprema koja sadrži ekrane (..) / Screens, monitors, and equipment containing screens (..)
- Lampe /Lamps
- Velika oprema (osim fotonaponskih panela) / Large equipment (excluding photovoltaic panels)
- Fotonaponski paneli (uključujući pretvarače) / Photovoltaic panels (incl. converters)
- Mala oprema / Small equipment
- Mala informatička i telekomunikacijska oprema / Small IT and telecommunication equipment

Velika oprema (EU6) (isključujući fotonaponske panele) iznosi 32,2% u odnosu na ukupnu količinu električne i elektroničke opreme plasirane na tržište u 2023. godini.

Large equipment (EU6) (excluding photovoltaic panels) accounts for 32.2% of the total amount of electrical and electronic equipment placed on the market in 2023.

G. 1.3. Ukupno plasirano na tržište (POM), kg/stanovniku, Bosna i Hercegovina, 2012-2023¹

G.1.3 Total placed on the market (POM), kg/per capita, Bosnia and Herzegovina, 2012-2023¹



Godišnja količina električne i elektroničke opreme plasirane na tržište po glavi stanovnika je u porastu, i u 2023. godini je veća za 17,7% u odnosu na 2022. godinu.

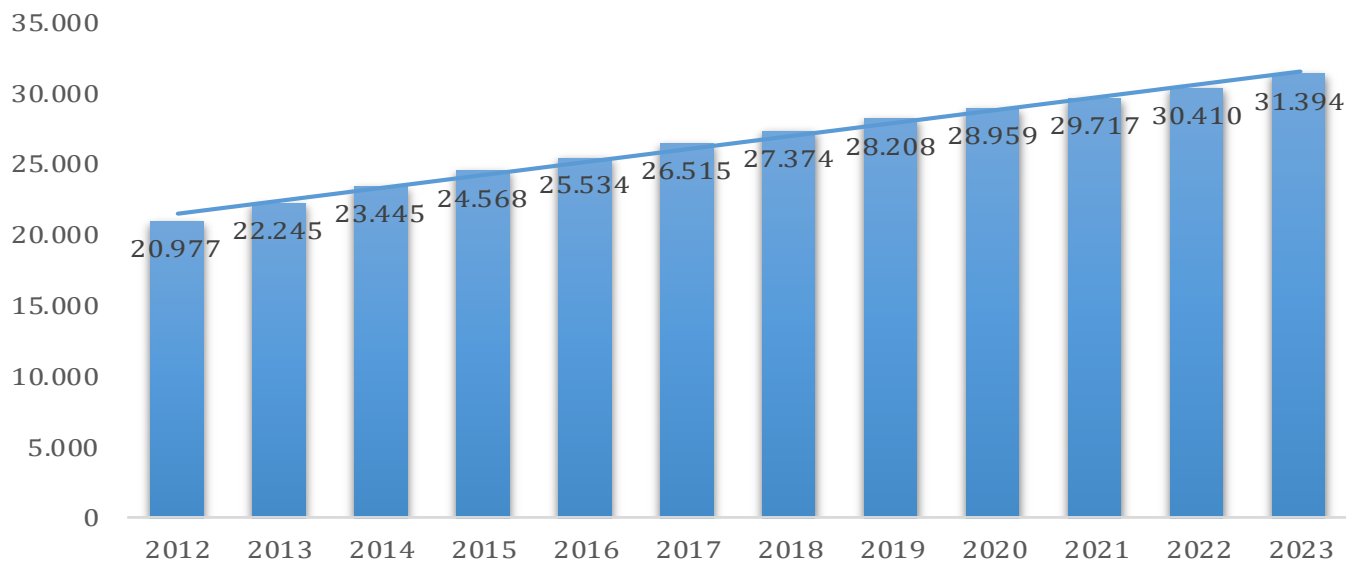
The annual amount of electrical and electronic equipment put on the market per capita is increasing, and in 2023 it is higher by 17.7% compared to 2022.

Ovo povećanje je posljedica povećanog uvoza električne i elektroničke opreme za 7,8% i značajnog pada izvoza električne i elektroničke opreme za čak 30% u odnosu na prošlu godinu.

This increase is due to an increased import of electrical and electronic equipment by 7.8% and a significant decline in exports of electrical and electronic equipment by as much as 30% compared to last year

G. 1.4. Ukupno generirani električni i elektronski otpad, Bosna i Hercegovina, 2012-2023, tona

G.1.4. Total generated electrical and electronic waste, Bosnia and Herzegovina, 2012-2023, tonnes



¹ Podaci Agencije za statistiku Bosne i Hercegovine o broju stanovnika u Bosni i Hercegovini (Popis 2013 i procjene o broju stanovnika 2014-2023)

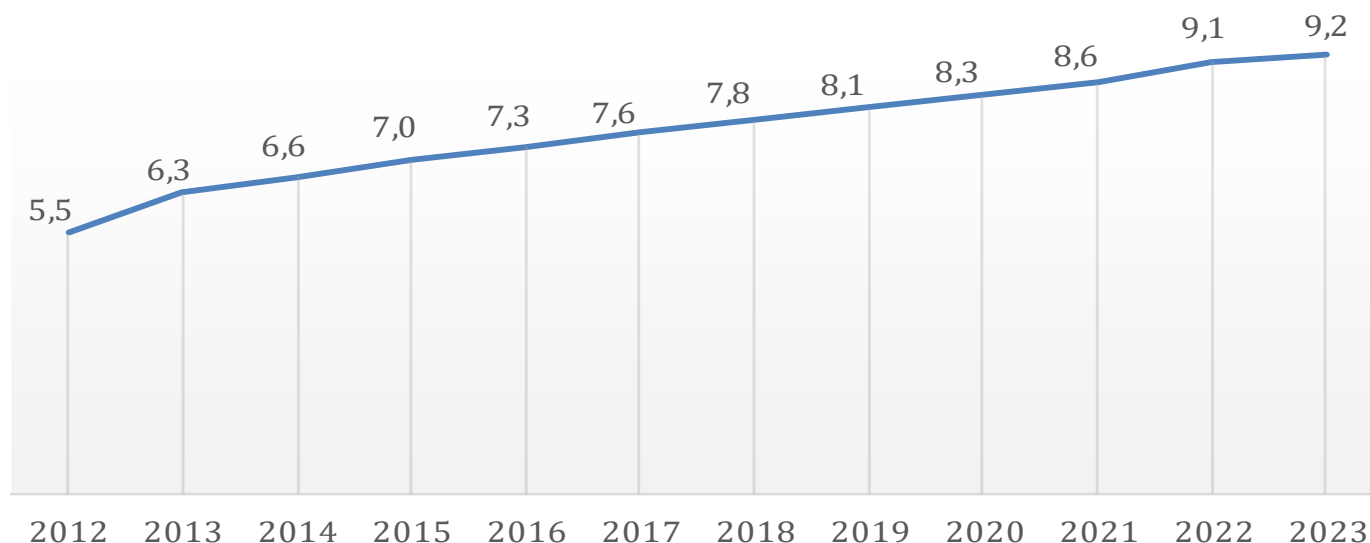
¹ Data from the Agency for Statistics of Bosnia and Herzegovina on the population in Bosnia and Herzegovina (Census 2013 and estimates of number population 2014-2023)

Ukupno generirani električni i elektronički otpad je u porastu. Ukupna količina e-otpada u 2023. je veća za 3,2% u odnosu na prethodnu godinu.

The total electrical and electronic waste generated is increasing. The total amount of e-waste in 2023 is higher by 3.2% compared to the previous year.

G. 1.5. Ukupno generirani električni i elektronički otpad, Bosna i Hercegovina, 2012-2023, kg/stanovniku²

G 1.5. Total generated electrical and electronic waste, Bosnia and Herzegovina, 2012-2023, kg/per capita²

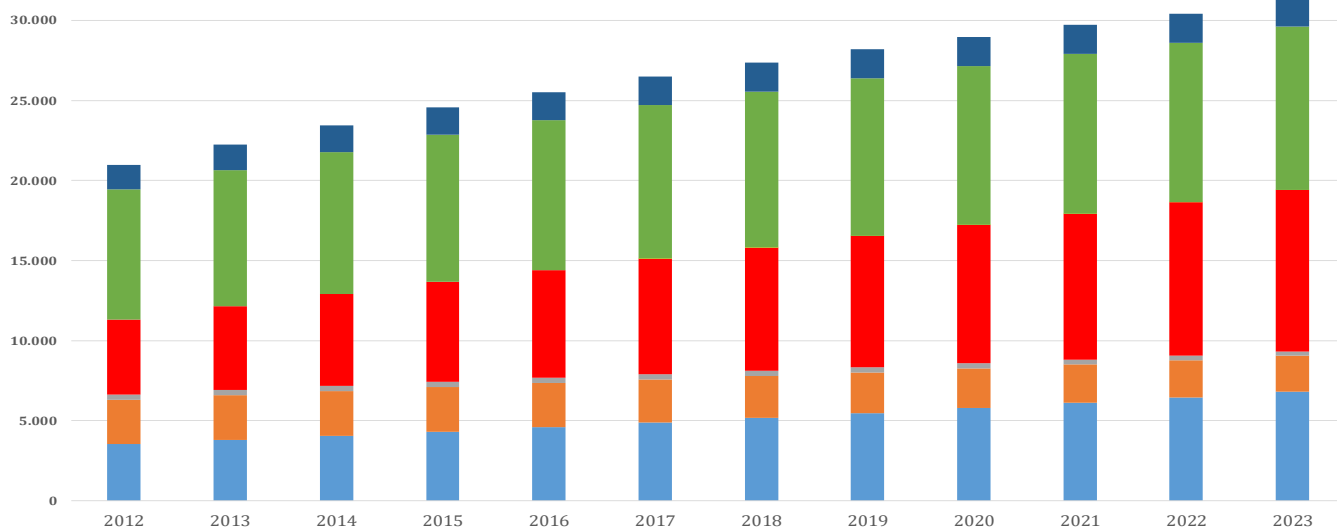


Godišnja količina e-otpada po glavi stanovnika je u porastu i u 2023. godini je veća za 1,1% u odnosu na 2022. godinu.

The average annual amount of e-waste per capita is constantly growing, in 2023 it is higher by 1.1% compared to 2022.

G. 1.6. Generisani električni i elektronički otpad (EU6), Bosna i Hercegovina, 2012-2023, tona

G 1.6. Electrical and electronic waste generated (EU6), Bosnia and Herzegovina, 2012-2023, tonnes



² Podaci Agencije za statistiku Bosne i Hercegovine o broju stanovnika u Bosni i Hercegovini (Popis 2013 i procjene o broju stanovnika 2014-2023)

² Data from the Agency for Statistics of Bosnia and Herzegovina on the population in Bosnia and Herzegovina (Census 2013 and estimates of number population 2014-2023)

Legenda/Legend:

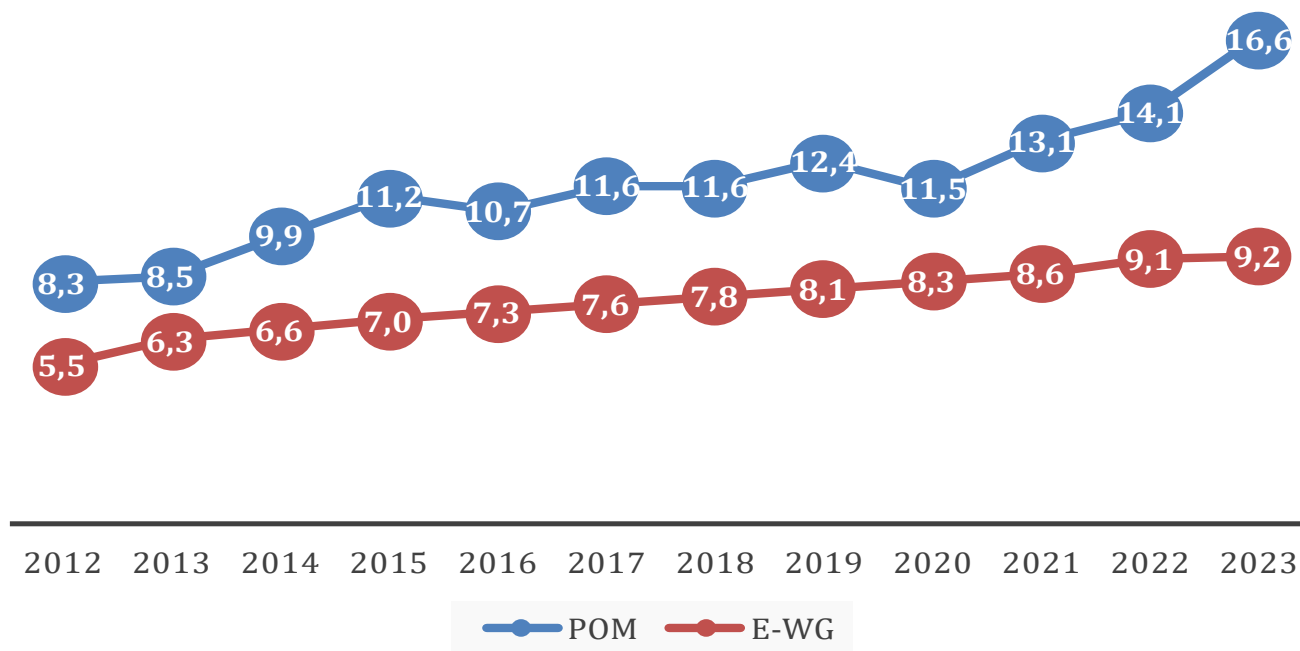
■	Oprema za izmjenu temperature /Temperature exchange equipment
■	Ekrani, monitori i oprema koja sadrži ekrane (..) / Screens, monitors, and equipment containing screens (..)
■	Lampe /Lamps
■	Velika oprema (osim fotonaponskih panela) / Large equipment (excluding photovoltaic panels)
■	Fotonaponski paneli (uključujući pretvarače) / Photovoltaic panels (incl. converters)
■	Mala oprema / Small equipment
■	Mala informatička i telekomunikacijska oprema / Small IT and telecommunication equipment

Podaci električne i elektroničke opreme u okviru šest kategorija (EU6) pokazuju da Mala oprema čini više od 10.100 tona ili 32,5%, a Velika oprema (isključujući fotonaponske panele) čini više od 10.000 tona ili 32,1% od ukupnog generiranog električnog i elektroničkog otpada u 2023. godini.

Electrical and electronic equipment data within six categories (EU6) shows that small equipment accounts for more than 10,100 tons or 32.5% and large equipment (excluding photovoltaic panels) accounts for more than 10,000 tons or 32.1% of total Electrical and electronic waste generated in 2023.

G. 1.7. Električna i elektronička oprema plasirana na tržište u odnosu na stvoreni (generirani) e- otpad, Bosna i Hercegovina, 2012-2023, kg/stanovnika³

G 1.7. Electrical and electronic equipment placed on the market (POM) in relation to generated e-waste (e-WG), Bosnia and Herzegovina, 2012-2023, kg/ per capita.



³ Podaci Agencije za statistiku Bosne i Hercegovine o broju stanovnika u Bosni i Hercegovini (Popis 2013 i procjene o broju stanovnika 2014-2023)

³ Data from the Agency for Statistics of Bosnia and Herzegovina on the population in Bosnia and Herzegovina (Census 2013 and estimates of number population 2014-2022)

METODOLOŠKA OBJAŠNJENJA

E-otpad

Elektronički otpad, ili e-otpad, odnosi se na sve predmete električne i elektroničke opreme (EEE) i njihove dijelove koji su odbačeni od strane vlasnika kao otpad bez namjere ponovne uporabe. E-otpad se također naziva WEEE (Otpadna električna i elektronička oprema), elektronički otpad ili e-otpad. E-otpad je složena mješavina materijala i komponenti koji mogu uzrokovati velike ekološke i zdravstvene probleme zbog opasnog sadržaja.

Definicija elektroničkog otpada je veoma široka i pokriva šest kategorija otpada. Svaki proizvod iz šest kategorija elektroničkog otpada ima različit profil trajanja, što znači da svaka kategorija ima različite količine otpada, ekonomske vrijednosti, kao i potencijalne ekološke i zdravstvene utjecaje, ako se nepravilno reciklira.

Elektronički otpad sadrži između 600 i 1000 različitih kemijskih supstanci koje su štetne po zdravlje i ugrožavaju okoliš, od kojih su najprisutnije materije: olovo, živa, hrom, kadmijum, berilijum, PVC, barijum.

Cilj

Prikupiti pouzdane podatke o e-otpadu koji će služiti kao temelj za donošenje odluka i ekološki prihvatljivo gospodarenje električnom i elektroničkom opremom koja je na kraju životnog vijeka.

Pravni temelj

Europsko povjerenstvo je 2012. objavila Direktivu 2012/19 / EU Europskog parlamenta i Vijeća ("WEEE2") o otpadu električne i elektroničke opreme ("EEE"). Od 2018. godine sva EEE razvrstana je u 6 kategorija navedenih u Aneksu III WEEE2.

Metodologija za izračun procjena mase EEO-a stavljenog na tržište

Za međunarodnu i regionalnu usporedivost korištena je zajedničkih metodologija i alat za izračun mase električne i elektroničke opreme (EEO) stavljene na tržište i otpadne električne i elektroničke opreme, (MANUAL for the use of the WEEE calculation tool, 2017).

Klasifikacija EEO u okviru šest kategorija (EU-6) navedene u Aneksu III Direktive WEEE 2012/19 / EU:

1. Oprema za izmjenu temperature
2. Zaslone, monitori i oprema koja sadrži zaslone (..)
3. Lampe
4. Velika oprema
5. Mala oprema
6. Mala IT i telekomunikacijska oprema

➤ Alat za izračun količina E-otpada

Alat za izračun otpadne električne i elektroničke opreme se koristi za unos statističkih podataka o EEO kako bi se

NOTES ON METHODOLOGY

E-waste

Electronic waste, or e-waste, refers to all items of electrical and electronic equipment (EEE) and its parts that have been discarded by its owner as waste without the intent of re-use. E-waste is also known as WEEE (Waste Electrical and Electronic Equipment), electronic waste, or e-waste. E-waste is a complex mixture of materials and components that can cause major environmental and health problems due to its hazardous content.

The definition of e-waste is very broad and covers six waste categories. Each product of the six e-waste categories has a different lifetime profile, which means that each category has different waste quantities, economic values, as well as potential environmental and health impacts, if recycled inappropriately. Electronic waste contains between 600 and 1000 different chemical substances that are harmful to health and endanger the environment, of which the most common substances are: lead, mercury, chromium, cadmium, beryllium, PVC, barium.

Objective

Collect reliable data on e-waste that will serve as a basis for decision-making and environmentally friendly management of end-of-life electrical and electronic equipment.

Legal framework

In 2012, the European Commission published Directive 2012/19 / EU of the European Parliament and of the Council ("WEEE2") on waste electrical and electronic equipment ("EEE"). As of 2018, all EEE is classified into 6 categories listed in Annex III WEEE2

Methodology for calculating estimates of the mass of POM placed on the market

For international and regional comparability, common methodologies and a tool for calculating the mass of electrical and electronic equipment (POM) placed on the market and waste electrical and electronic equipment were used (MANUAL for the use of the WEEE calculation tool, 2017).

Classification of EEE within the six categories (EU-6) listed in Annex III of the WEEE Directive 2012/19 / EU:

1. Equipment for temperature change
2. Screens, monitors and equipment containing screens (..)
3. Lamps
4. Large equipment
5. Small equipment
6. Small IT and telecommunications equipment

➤ Tool for calculating E-waste quantities

The WEEE calculation tool is used to input POM data coming from statistical data in order to calculate the relevant

izračunale relevantne količine EEO stavljene na tržište po određenim kategorijama EEO u Aneksima I i III Direktive 2012/19/EU, i za izračun otpadne električne i elektroničke opreme.

Argumentirane procjene mase EEO-a stavljenog na tržište države članice u referentnoj godini izračunavaju se metodom vidljive potrošnje koja se temelji na jednačini:

EEO stavljen na tržište (t) = domaća proizvodnja (t) + uvoz (t) – izvoz (t)

pri čemu je:

domaća proizvodnja (t) = masa (u tonama) dovršenog EEO-a proizvedenog u referentnoj godini t u državi;

uvoz (t) = masa (u tonama) EEO-a uvezenog u državu u referentnoj godini t iz druge države radi distribucije, potrošnje ili upotrebe;

izvoz (t) = masa (u tonama) EEO-a izvezenog iz države u referentnoj godini t u drugu državu radi distribucije, potrošnje ili upotrebe.

Metodologija za izračun ukupne količine otpadne električne i elektroničke opreme proizvedene u danoj godini na teritoriju države temelji se na:

- količini EEO stavljene na tržište u prethodnim godinama i dalje
- odgovarajućem vijeku trajanja proizvoda

Alat omogućuje ažuriranje podataka o EEO-u stavljenom na tržište za prethodne godine i/ili podatke o vijeku trajanja na temelju relevantnih podataka i dokaza u prilog takvim ažuriranjima.

quantities of POM placed on the market by specific POM categories in Annexes I and III of Directive 2012/19/EU, and to calculate waste electrical and electronic equipment.

Argued estimates of the mass of POM placed on the market of the member state in the reference year are calculated using the visible consumption method, which is based on the equation: POM placed on the market (t) = domestic production (t) + import (t) – export (t)

where:

domestic production (t) = mass (in tons) of completed POM produced in the reference year t in the country;

import (t) = mass (in tons) of POM imported into the country in the reference year t from another country for distribution, consumption or use;

export (t) = mass (in tons) of POM exported from a country in reference year t to another country for distribution, consumption or use.

The methodology for calculating the total amount of waste electrical and electronic equipment produced in a given year on the territory of the country is based on:

- *the amount of POM placed on the market in previous years and beyond*
- *the appropriate life of the product*

The tool allows updating POM data placed on the market for previous years and/or lifetime data based on relevant data and evidence to support such updates.

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