REGIONAL TRAINING ON THE PRODUCTION AND USE OF WASTE AND CIRCULAR ECONOMY STATISTICS AND INDICATORS

SESSION 4: STATISTICS AND INDICATORS ON WASTE GENERATION AND WASTE COMPOSITION

20-21 June 2024, Vienna International Centre (VIC), Vienna

STATISTICS AND INDICATORS ON WASTE GENERATION AND WASTE COMPOSITION

In this presentation:

- Municipal waste generation
- Municipal waste generated per capita
- Municipal waste composition
- **Total waste generation / Total waste generation per capita**
- **Waste generation intensity per unit of GDP**

STATISTICS AND INDICATORS: **TOTAL WASTE GENERATION / PER CAPITA**

Figure 2: Waste generation, 2020
(kg per capita)

4.8 tonnes of waste were generated per EU inhabitant in 2020. https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Waste_statistics #Eurostat #StatisticsExplained

ec.europa.eu
Statistics Explained
Waste statistics

Everyone can reply

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■ Waste excluding major mineral waste   ■ Major mineral waste

Note: sorted on total waste generated.
(¹) This designation is without prejudice to positions on status, and is in line with UNSCR 1244/1999 and the ICJ Opinion on the Kosovo Declaration of Independence.

		C	D	E
HU	Hu...		802	1 759
PT	Po...	1 328	284	1 612
LV	Latvia	1 311	190	1 501
HR	Croatia	1 025	458	1 483
LI	Liechtenstein	1 045	12 906	13,951
IS	Iceland	1 442	1 453	2,895
NO	Norway	1 506	1 104	2,610

Table_1 | Figure 1 | **Figure 2** | Figure_3 | Table_2 | Figure_4 | Figure_5 | Figure_6 | Figure_7 | Figure_8

STATISTICS AND INDICATORS: **TOTAL WASTE GENERATION** | **= 2 153 950 000 t** in **2020**

STATISTICS AND INDICATORS: **TOTAL WAS...**

European Environment Agency

Topics   **Analysis and data**   Co...

🏠 ＞ Analysis and data ＞ Indicators ＞ Waste generation in Europe

Waste generation in Europe

Published 28 Jun 2023

Between 2010 and 2020, total per capita waste generation decreased by...
signficantly decrease its total waste generation by 2030 and the observ...
progress towards this. However, the decrease is recent (2018-2020) an...
the EU economy due to the COVID-19 pandemic. Waste generation has...
growth relatively closely. It therefore does not seem likely that waste ge...
decrease by 2030 in context of the current return to economic growth. S...
be required to sustain the decrease in waste generation.

https://www.eea.europa.e
u/en/analysis/indicators/
waste-generation-and-
decoupling-in-europe
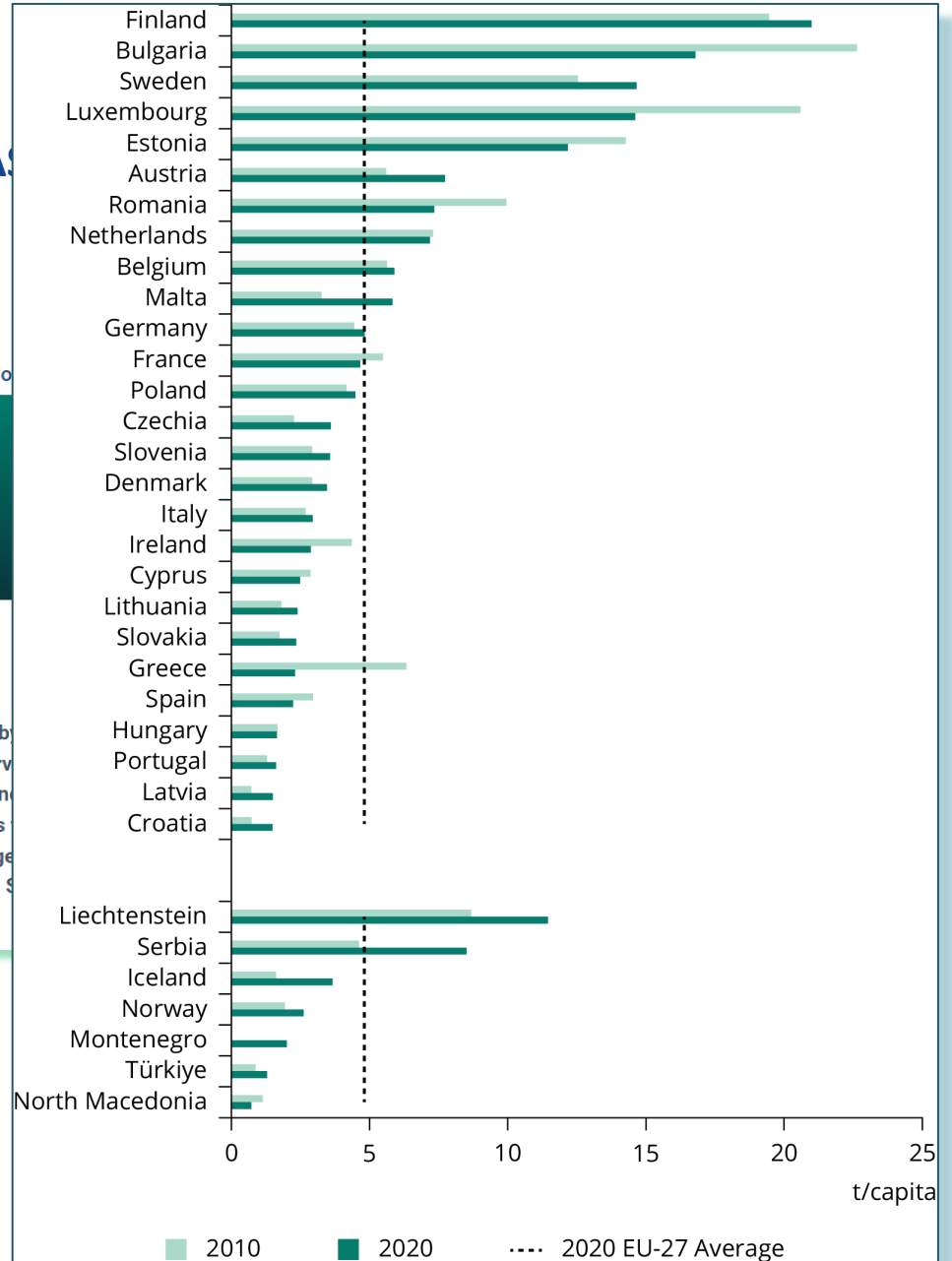
STATISTICS AND INDICATORS: **WASTE GENERATION INTENSITY / PER UNIT OF GDP**

Generation of waste _excluding major mineral wastes_, per GDP unit

- The indicator is part of the **Circular Economy Monitoring Framework**

- The indicator is defined as all waste generated in a country (in mass unit), _excluding major mineral wastes_, per GDP unit (in Euro, chain linked volumes (2010))

  The ratio is expressed in kg per thousand EUR

- For better comparability: Major mineral wastes are excluded because weight of total waste generation is mainly driven by mineral waste from construction / demolition and from mining activities, and the latter widely varies in importance across Member States

See metadata:
https://ec.europa.eu/euro stat/cache/metadata/en/c ei_pc032_esmsip2.htm

Metadata for GDP:
https://ec.europa.eu/euro stat/cache/metadata/en/n ama10_esms.htm

STATISTICS AND INDICATORS: **WASTE GENERATION INTENSITY / PER UNIT OF GDP**

Generation of waste *excluding major mineral wastes*, per GDP unit
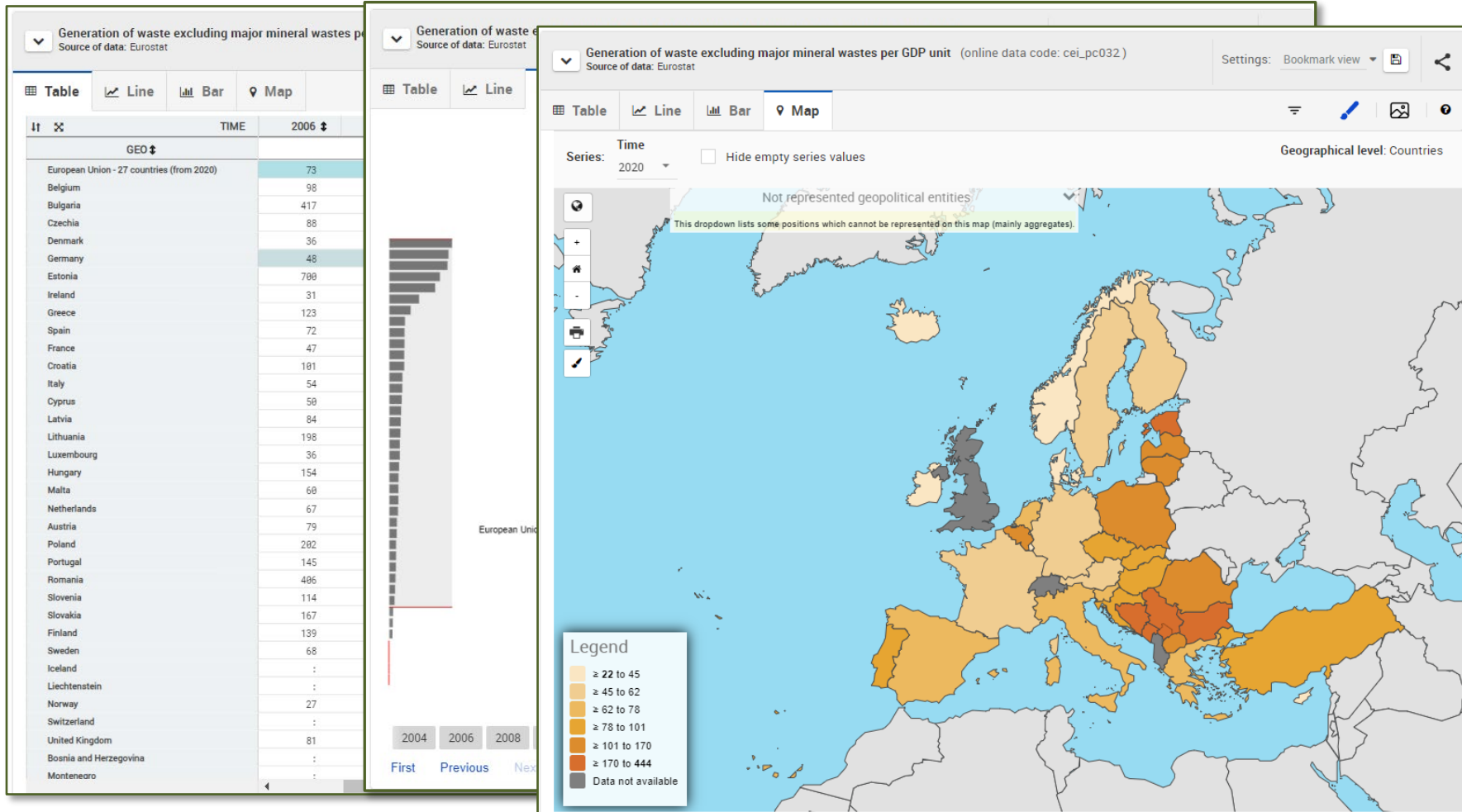
STATISTICS AND INDICATORS: **WASTE GENERATION INTENSITY / PER UNIT OF GDP**

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Waste generation in Europe
Published 28 Jun 2023

⌂ › Analysis and data › Indicators › Waste generation in Europe

Between 2010 and 2020, total per capita waste g[...]
signficantly decrease its total waste generation b[...]
progress towards this. However, the decrease is n[...]
the EU economy due to the COVID-19 pandemic. [...]
growth relatively closely. It therefore does not see[...]
decrease by 2030 in context of the current return[...]
be required to sustain the decrease in waste gene[...]

https://www.eea.europa.eu/en/analysis/indicators/waste-generation-and-decoupling-in-europe

Figure 1. Waste generation and decoupling per capita in the EU-27

Index (2010=100)

Gross domestic product
Total waste excluding major mineral wastes
Total waste generation

Sources | More info ⟋   ⬇ Download   ⮞ Share   ⤢ Enlarge

STATISTICS AND INDICATORS ON WASTE GENERATION AND **WASTE COMPOSITION**

Waste generation by economic activities households, EU, 2020
(% share of total waste)

- Agriculture, forestry and fishing 1.0 %
- Energy 2.3 %
- Services (except wholesale of waste and scrap) 4.4 %
- Households 9.4 %
- Manufacturing 10.6 %
- Waste/water 10.8 %
- Mining and quarrying 23.4 %

Source: Eurostat (online data code: env_wasgen)

Table 1: Waste generation by economic activities and households, 2020
(% share of total waste)

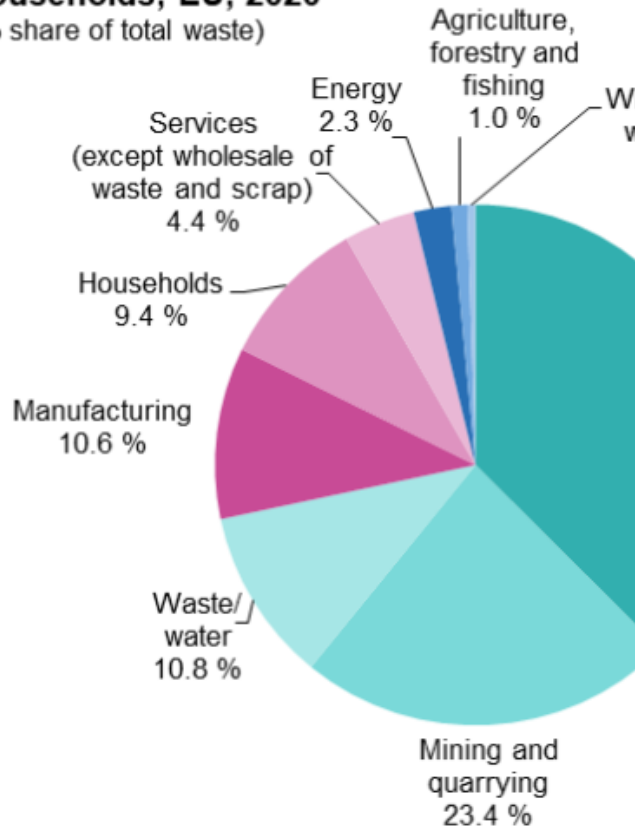|	Mining and quarrying	Manufacturing	Energy	Waste/water	Construction and demolition	Other economic activities	Households
EU	23.4	10.6	2.3	10.8	37.5	5.9	9.4
Belgium	0.0	20.9	1.5	31.4	30.5	7.9	7.8
Bulgaria	81.6	4.2	5.2	2.9	1.6	2.5	2.0
Czechia	0.3	12.1	1.1	15.5	42.9	12.2	15.9
Denmark	0.1	5.4	3.9	7.5	54.8	10.3	18.0
Germany	1.3	13.7	2.0	12.0	56.3	5.1	9.6
Estonia	15.2	24.6	35.0	4.6	9.8	7.4	3.4
Ireland	9.4	22.4	1.0	12.6	32.6	10.1	12.0
Greece	31.7	11.1	5.3	11.4	19.1	5.5	15.9
Spain	2.3	12.4	0.8	20.8	30.8	11.5	21.3
France	0.1	6.0	0.3	8.1	68.5	6.3	10.8
Croatia	11.6	7.5	1.1	16.3	23.8	19.5	20.2
Italy	0.8	15.2	0.9	24.6	37.8	4.1	16.6
Cyprus	6.9	9.5	0.1	6.6	50.2	9.8	17.0
Latvia	0.0	17.0	4.1	33.7	9.7	12.9	22.6
Lithuania	1.0	32.7	2.3	18.4	8.3	16.3	20.9
Luxembourg	1.1	6.5	0.3	3.5	82.1	4.2	2.2
Hungary	0.8	15.2	11.4	12.1	25.4	7.5	27.6
Malta	1.1	0.9	0.0	2.5	85.3	4.7	5.6
Netherlands	0.1	10.6	0.4	7.4	65.4	8.7	7.4
Austria	0.1	7.5	0.6	3.5	76.5	5.2	6.7
Poland	36.6	16.1	6.6	13.4	13.0	6.6	7.8
Portugal	0.1	17.8	1.3	22.9	10.7	15.4	31.8
Romania	84.3	4.6	3.1	2.0	0.9	2.2	3.0
Slovenia	0.1	17.9	12.1	3.8	6.3	51.4	8.4
Slovakia	1.6	24.0	5.5	8.9	9.0	32.5	18.5
Finland	75.1	8.2	0.8	1.0	11.8	1.0	2.1
Sweden	76.5	3.1	1.2	4.5	9.3	2.3	3.1
Iceland	0.0	24.2	0.0	2.0	3.6	31.0	39.2
Liechtenstein	0.0	1.1	0.0	0.3	92.5	0.1	6.0
Norway	1.3	13.6	1.6	8.0	44.2	12.9	18.4
Montenegro	25.3	2.5	29.0	0.3	13.8	10.5	18.5
North Macedonia	35.1	35.0	0.5	17.9	3.8	7.7	0.0
Serbia	78.0	1.9	13.5	1.1	1.2	0.9	3.5
Türkiye	25.6	19.2	22.6	0.3	0.0	5.8	26.5
Bosnia and Herzegovina	11.3	27.3	46.3	0.0	1.3	0.4	13.4
Kosovo (*)	19.9	9.4	52.5	0.3	0.2	3.1	14.6

(*) This designation is without prejudice to positions on status, and is in line with UNSCR 1244/1999 and the ICJ Opinion on the Kosovo Declaration of Independence.

Source: Eurostat (online data code: env_wasgen)

STATISTICS AND

Generation of waste by waste category, hazardousness and NACE Rev. 2 activity (online data code: env_wasgen)
Source of data: Eurostat

Settings: Default

| ⊞ Table | ⤴ Line | ⅠⅠⅠ Bar | �ⴼ Map |

	TIME	2020	2020	2020	2020
	GEO	European Union - 27 cou... ⬍	Belgium ⬍	Germany ⬍	Estonia ⬍
WASTE ⬍					
Total waste		2 153 950 000	68 061 590	401 156 266	16 170 358
Primary waste (TOTAL minus SEC)		2 008 880 000	63 446 704	355 195 948	15 861 324
Secondary waste (W033+W103+W128_13)		145 070 000	4 614 886	45 960 318	309 034
Spent solvents		2 150 000	121 983	653 832	521
Acid, alkaline or saline wastes		4 630 000	576 811	984 481	3 828
Used oils		3 920 000	105 823	1 071 807	3 679
Chemical wastes		16 650 000	756 294	2 765 402	1 325 744
Industrial effluent sludges		11 290 000	405 363	1 674 413	24 554
Sludges and liquid wastes from waste treatment		9 360 000	1 062 244	611 182	70 102
Health care and biological wastes		2 070 000	76 810	399 905	2 227
Metal wastes, ferrous		64 190 000	2 343 821	9 580 935	464 785
Metal wastes, non-ferrous		8 620 000	692 364	1 425 173	51 554
Metal wastes, mixed ferrous and non-ferrous		9 370 000	424 518	533 997	16 781
Glass wastes		17 850 000	1 714 352	3 506 496	50 803
Paper and cardboard wastes		43 490 000	3 940 453	7 164 678	105 954
Rubber wastes		2 920 000	67 622	601 391	37 434
Plastic wastes		19 030 000	994 896	3 097 163	43 142
Wood wastes		48 280 000	4 148 524	13 324 306	133 007
Textile wastes		1 950 000	179 605	281 041	3 958
Waste containing PCB		40 000	1 326	15 376	2
Discarded equipment (except discarded vehicles and b...		5 860 000	196 144	1 326 530	13 377
Discarded vehicles		8 010 000	439 846	756 946	22 991
Batteries and accumulators wastes		1 600 000	75 756	261 423	4 494
Animal and mixed food waste		25 240 000	1 351 967	1 718 744	41 043
Vegetal wastes		53 640 000	7 522 808	12 715 049	71 560
Animal faeces, urine and manure		13 950 000	86 858	660 787	123 361
Household and similar wastes		131 700 000	4 648 980	21 318 713	338 587
Mixed and undifferentiated materials		39 780 000	1 966 572	6 554 734	53 863
Sorting residues		89 140 000	2 356 313	19 890 201	115 555
Common sludges		17 270 000	868 691	1 623 035	58 155
Mineral waste from construction and demolition		305 650 000	20 788 008	89 279 198	796 502
Other mineral wastes (W122+W123+W125)		561 240 000	1 978 763	32 659 130	5 273 663
Combustion wastes		77 690 000	3 123 514	11 553 312	5 048 483
Soils		448 060 000	2 815 477	127 294 940	1 670 289
Dredging spoils		62 700 000	1 032 755	393 012	76 982

EC Data Browser (Latest commit 84a264302, built on 2024-05-03T15:35:35.540Z)

REGIONAL TRAINING ON THE PRODUCTION AND USE OF WASTE AND CIRCULAR ECONOMY STATISTICS AND INDICATORS

Thank you !

Working Group on Environmental Monitoring and Assessment

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https://unece.org/environmental-policy/events/regional-training-production-and-use-waste-and-circular-economy