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| **STATISTICAL RELEASE** | **ZS60** |
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**Waste generated and treated, 2019**

**– Preliminary results –**

During 2019, the sections: Agriculture, forestry and fishing, Mining and quarrying, Manufacturing, Electricity, gas, steam and air conditioning supply, Water supply, sewerage, waste management and remediation activities, Construction and Other service activities of the Republic of Serbia generated waste amounting to 64.5 million tons, out of which 75.6% related to non-hazardous and 24.4% to hazardous waste. The greatest share of generated hazardous waste was from the section of Mining and quarrying (29.2%).

**1. Generated waste in the Republic of Serbia by sections, 2018 and 2019**

|  |  |  |
| --- | --- | --- |
|    | 2018 | 2019 |
| t | t | Non-hazardous waste, % | Hazardous waste, % |
|  |  |  |  |  |
| **Generated waste – total** | **49 265 850** | **64 516 995** | **75.6** | **24.4** |
| Agriculture, forestry and fishing | 92 922 | 130 756 | 96.1 | 3.9 |
| Mining and quarrying | 38 625 967 | 53 766 612 | 70.8 | 29.2 |
| Manufacturing | 1 520 654 | 1 613 134 | 96.7 | 3.3 |
| Electricity, gas, steam and air conditioning supply | 7 495 025 | 7 500 434 | 100.0 | 0.0 |
| Water supply, sewerage, waste management and remediation activities | 561 151 | 478 334 | 97.2 | 2.8 |
| Construction  | 550 436 | 605 889 | 99.7 | 0.3 |
| Other service activities  | 419 696 | 421 837 | 96.8 | 3.2 |

Generated waste quantities, observed by sections and relative to the previous year, noted in 2019 the following trends: Agriculture, forestry and fishing – increase of 40.7%, Mining and quarrying – increase of 39.2%, Manufacturing – increase of 6.1%, Electricity, gas, steam and air conditioning supply – decrease of 0.1%, Water supply, sewerage, waste management and remediation activities – decrease of 14.8%, Construction – increase of 10.1% and Other service activities – increase of 0.5%.

**Share of generated waste in the Republic of Serbia, by sections, 2019**

**2. Generated waste in the Republic of Serbia by aggregated waste list, 2019 t**

|  |  |  |  |
| --- | --- | --- | --- |
| *EWC*-Stat1) |  | Waste character2) | CA sections |
| Agriculture, forestry and fishing | Mining and quarrying | Manufac-turing | Electricity, gas, steam and air conditioning supply | Water supply, sewerage, waste manage- ment and remediation activities | Con-struction | Other service activities |
|  |  |  |  |  |  |  |  |  |  |
|   | **Total** |  | **130 765** | **53 766 612** | **1 613 134** | **7 500 434** | **4780 334** | **605 889** | **421 837** |
|  |  |  |  |  |  |  |  |  |  |
|  | **Non-hazardous waste – all** |  | **125 715** | **38 080 547** | **1 566 240** | **7 499 438** | **465 059** | **604 321** | **408 423** |
|  | **Hazardous waste – all** |  | **5 041** | **15 686 066** | **46 894** | **996** | **13 274** | **1 569** | **13 414** |
|  |  |  |  |  |  |  |  |  |  |
| 1.1 | Spent solvents | H | - | - | 35 | 1 | 1 | 1 | - |
| 1.2 | Acid, alkaline or saline wastes | N | - | - | 53 | - | - | - | - |
|  |  | H | - | - | 2 528 | - | 2 837 | - | 981 |
| 1.3 | Used oils | H | 68 | 129 | 5 444 | 323 | 29 | 397 | 1 361 |
| 1.4,2,3.1 | Chemical wastes | N | 1 | 4 | 6 223 | 1 187 | 580 | 708 | 149 |
|  |  | H | 79 | 213 | 11 266 | 172 | 1 290 | 64 | 942 |
| 3.2 | Industrial effluent sludges3) | N | - | - | 6081 | 17 | 193 | 20 | 364 |
|  |  | H | - | - | 567 | - | 901 | - | 71 |
| 3.3 | Sludges and liquid wastes from waste treatment3) | N | - | - | 55 | - | 191 | - | 28 |
|  |  | H | - | - | 68 | - | 2 | - | 6 |
| 5 | Health care and biological wastes | N | - | - | 9 | - | - | - | 604 |
|  |  | H | 4 852 | - | 36 | - | - | - | 3 424 |
| 6.1 | Metallic wastes, ferrous | N | 7 862 | 6 762 | 126 238 | 12 815 | 98 930 | 16 612 | 151 908 |
| 6.2 | Metallic wastes, non-ferrous | N | 7 009 | 498 | 11 154 | 95 | 3 273 | 1 641 | 3 137 |
| 6.3 | Metallic wastes, mixed ferrous and non-ferrous | N | 403 | 20 | 10 762 | 491 | 2 090 | 1 257 | 3 790 |
| 7.1 | Glass wastes | N | 12 | - | 10 437 | 12 | 4 338 | 737 | 8 027 |
|  |  | H | - | - | - | - | 2 | - |  - |
| 7.2 | Paper and cardboard wastes  | N | 536 | 14 | 87 442 | 12 | 51 849 | 470 | 46 584 |
| 7.3 | Rubber wastes | N | 127 | 558 | 7 191 | 48 | 199 | 612 | 6 238 |
| 7.4 | Plastic wastes | N | 182 | 15 | 37 167 | 21 | 7 671 | 1 230 | 10 515 |
| 7.5 | Wood wastes | N | 662 | 12 | 61 697 | 167 | 312 | 1 286 | 12 925 |
|  |  | H | - | - | 5 100 | - | - | - | 143 |
| 7.6 | Textile wastes  | N | 2 | 1 | 12 583 | 1 | 328 | - | 62 |
| 7.7 | Waste containing PCB 4)  | H | - | 49 | 47 | - | 1 | - | 3 |
| 8 | Discarded equipment (excluding 08.1, 08.41) | N | - | 56 | 406 | 863 | 1 630 | 11 | 351 |
|  |  | H | 5 | 73 | 5 853 | 100 | 3 040 | 39 | 1 828 |
| 8.1 | Discarded vehicles | N | 4 | 509 | 3 | - | 141 | 79 | 1 785 |
|  |  | H | 20 | - | 45 | - | 16 | - | 1 508 |
| 8.41 | Batteries and accumulators wastes | N | 45 | - | 2 | - | 10 | 5 | 639 |
|  |  | H | 16 | 35 | 319 | 53 | 47 | 58 | 2 385 |
| 9.1 | Animal and mixed food waste  | N | 4 221 | - | 12 136 | - | 2 951 | 78 | 14 008 |
| 9.2 | Vegetal wastes | N | 1 631 | - | 27 028 | 1 | 1 283 | 219 | 21 890 |
| 9.3 | Animal faeces, urine and manure  | N | 102 219 | - | 4149 | - | - | - | - |
| 10.1 | Household and similar wastes | N | 689 | 134 | 35 724 | 1215 | 21 590 | 5 853 | 100 650 |
|  |  | N | 94 | 5790 | 61 153 | 1 | 6 548 | 92 | 5 201 |
| 10.2 | Mixed and undifferentiated materials | H | - | 7 | 279 | 2 | 4 | - | 689 |
| 10.3 | Sorting residues | N | - | - | 566 | - | 12 515 | - | 2 105 |
|  |  | H | - | 3 | 103 | - | 1 633 | - | 52 |
| 11 | Common sludges | N | 5 | - | 503 | - | 173 984 | - | 1 158 |
| 12.1 | Mineral waste from construction and demolition | N | - | - | 17 551 | 16 113 | 2 618 | 327 779 | 5 737 |
|  |  | H | - | - | 45 | 18 | - | 953 | 11 |
| 12.2,12.3,12.5 | Other mineral wastes | N | - | 38 063 187 | 14 225 | 1 | 35 471 | 507 | 1 202 |
|  |  | H | - | 15 685 556 | 124 | 30 | - | 43 | 4 |
| 12.4 | Combustion wastes | N | 15 | 2 984 | 729 134 | 7465742 | 434 | 405 | 2 659 |
|  |  | H | - | 1 | 15 033 | 285 | 3 473 | - | 4 |
| 12.6 | Soils | N | - | - | 251 | 539 | 30 061 | 165 615 | 6 703 |
|  |  | H | - | - | 3 | 13 | - | 13 | - |
| 12.7 | Dredging spoils  | N | - | - | - | - | - | 79105 | - |
| 12.8,13 | Mineral wastes from waste treatment and stabilised waste | H | - | - | 286 319 | 97 | 5 919 | - | 3 |
|  | Solvents used | N |  | - | 1 613 134 | 1 | 4780 334 | 1 | - |
|  |  | H | 130 765 | - |  | - |  | - | - |

1) European Waste Classification for Statistics (*EWC*-Stat), by Commission Regulation (EU) No 849/2010

2) H – hazardous waste / N – non-hazardous waste

3) Sludges (*EWC*-Stat types 03.2, 03.3, 11 and 12.7) dry.

4) PCB – Polychlorinated biphenyls

In 2019 total treated waste quantity was 62.7 million tons. From total treated waste quantity it was disposed 60.5 million tons (96.5%).

Total recycled waste quantities in 2019 noted increase of 6.2% relative to 2018, and it was mostly created due to increased metal waste recycling.

Quantity of recycled waste that was used as fuel for energy production noted increase of 14.9% relative to 2019.

**3. Waste treatment in the Republic of Serbia, 2018 and 2019**

|  |  |  |
| --- | --- | --- |
|  | 2018 | 2019 |
| t | t | Hazardous waste, % | Non-hazardous waste, % |
|  |  |  |  |  |
| **Total** | **49 085 246** | **62 683 732** | **25.2** | **74.8** |
| Used principally as a fuel or other means to generate energy | 135 328 | 155 544 | 4.1 | 95.9 |
| Incineration on land | 0 | 0 | - | - |
| Recycling   | 1 527 834 | 1 622 914 | 3.9 | 96.1 |
| Backfilling | 437 897 | 446 615 | - | 100.0 |
| Deposit into or onto land (e.g. landfill) | 46 852 720 | 60 284 571 | 26.0 | 74.0 |
| Other disposal | 131 467 | 174 088 | - | 100.0 |

**Methodological notes**

Methodological explanations on waste can be found on SORS website: <http://publikacije.stat.gov.rs/G2016/Pdf/G201620086.pdf>

Data series on Industrial waste from the reference year 2008 are available as a part of SORS publications: <http://www.stat.gov.rs/publikacije/>

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