

First Release

Year: LX.

Zagreb, 29 September 2023

OEN-2023-1-5

ISSN 1334-0557

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AIR EMISSION ACCOUNTS, 2021 – Provisional Data

The emissions of greenhouse gases and air pollutants are presented for the Republic of Croatia for the period from 2017 to 2021.

The total greenhouse gas emissions into the air decreased in 2021 compared to 2020. Emissions of air pollutants remained unchanged, except for CO emissions, which decreased in 2021 compared to 2020.

In 2021, the largest quantities of greenhouse gas emissions were generated by CO₂ emissions (excluding biomass emissions as fuel), 17 410.63 thousand t (Gg), CO₂ from biomass, 7 049.25 thousand t (Gg), HFC, 1 699 284.04 t (Mg), and CH₄ 138 827.00 t (Mg) in CO₂ equivalent. Out of all pollutants in 2021, CO accounted for the highest share of emissions, 206 384.00 t (Mg).

Final data will be available in the Database on 12 January 2024.

1 AIR EMISSIONS¹⁾

	2017	2018	2019	2020	2021
CO_2 (without emissions from biomass used as fuel), 1 000 t (Gg)	18 744,00	17 724,15	17 857,45	16 870,53	17 410,63
Biomass CO ₂ , 1 000 t (Gg)	5 906,57	6 057,52	6 228,14	6 383,96	7 049,25
N ₂ O, t (Mg)	5 495,18	5 323,49	5 336,30	5 473,12	5 432,92
CH ₄ , t (Mg)	152 601,35	146 557,63	144 624,92	142 926,04	138 827,00
HFC, t (Mg) CO ₂ -equivalent	1 229 018,77	1 356 034,81	1 470 230,63	1 574 631,67	1 699 284,04
PFC, t (Mg) CO ₂ -equivalent	0	0	0	0	0
SF ₆ NF ₃ , t (Mg) CO ₂ -equivalent	7 232,71	6 463,16	8 093,26	9 352,65	9 628,56
NO _X , t (Mg) NO ₂ -equivalent	54 878,70	49 665,94	48 526,95	45 809,08	43 661,00
SO _X , t (Mg)	12 487,81	9 974,55	7 575,24	6 126,44	4 748,00
NH ₃ , t (Mg)	32 183,33	32 678,54	30 584,20	31 554,65	31 368,00
NMHOS, t (Mg)	68 824,06	69 170,83	73 827,46	70 295,14	69 967,00
CO, t (Mg)	254 489,81	232 282,16	218 646,95	217 181,29	206 384,00
PM ₁₀ , t (Mg)	38 095,44	42 442,63	34 722,77	51 408,74	49 913,00
PM _{2.5} , t (Mg)	29 435,59	28 527,65	27 020,29	28 495,76	27 030,00

1) New, updated national and international emission factors, according to the recommended methodology for the calculation of emissions, are used each year for calculation, which makes the data incomparable with the data from the First Release OEN-2022-1-5.

NOTES ON METHODOLOGY

The data source for air emission accounts is the data compilation of the Croatian Bureau of Statistics and the Ministry of Economy and Sustainable Development.

The air emission accounts are one of the several physical modules of Eurostat's programme of environmental economic accounts. They are covered by Regulation (EU) No. 691/2011 of the European Parliament and of the Council of 6 July 2011 on European environmental economic accounts.

Air emission accounts record physical flows of gaseous or particulate materials ("air emissions"), which occur as a result of economic activity (production activities of business entities and activities of private households), as explained in the European System of National Accounts (ESA).

Definitions

Air emissions are physical flows of gaseous or particulate materials from economy (production or consumption processes) that pollute the atmosphere. Air emissions include emissions of greenhouse gases CO₂, N₂O, CH₄, HFC, PFC and SF₆ NF₃, as well as emissions of air pollutants NO_X, SO_X, NH₃, NMHOS, CO, PM_{2.5} and PM₁₀.

Abbreviations

CH_4	methane
CO	carbon monoxide
CO ₂	carbon dioxide
EU	European Union
Gg	gigagram (1 gigagram = 1 kilotonne)
HFC	hydrofluorocarbon
Mg	megagram (1 megagram = 1 tonne)
NH ₃	ammonia
N ₂ O	nitrous oxide
NMVOC	non-methane volatile organic compounds
NO _x	nitrogen oxides
PFC	perfluorocarbons
PM _{2.5}	particulate matter (less than or equal to a nominal 2.5 microns)
PM ₁₀	particulate matter (less than or equal to a nominal 10 microns)
$SF_6 NF_3$	sulphur hexafluoride and nitrogen trifluoride
SO _x	sulphur oxides
t	tonne

Symbols

0

value not zero but less than 0.5 of the unit of measure used

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