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AIR EMISSION ACCOUNTS, 2020 - Provisional Data

The emissions of greenhouse gases and air pollutants are presented for the period from 2016 to 2020 for the Republic of Croatia.

The total greenhouse gas emissions into the air decreased in 2020 compared to 2019. In 2020, compared to the previous year, most air pollutants decreased, except for NH₃ and particulate matters (PM_{10 and} PM_{2,5}), which recorded a slight increase.

In 2020, the highest greenhouse gas emissions were CO₂ emissions (excluding biomass emissions as fuel), 17 041.06 thousand t (Gg), CO₂ from biomass, 6 383.96 thousand t (Gg), HFC, 1 680 184.71 t (Mg), and CH₄ 141 560.71 t (Mg) in CO₂ equivalent. Out of all pollutants in 2020, CO had the highest emissions, 217 82.99 t (Mg).

Final data will be available in the Database on 13 January 2023.

1 AIR EMISSIONS¹⁾

	2016	2017	2018	2019	2020
CO_2 (without emissions from biomass used as fuel), 1 000 t (Gg)	18 502,67	19 159,12	18 006,74	18 118,27	17 041,06
Biomass CO ₂ , 1 000 t (Gg)	5 970,35	5 906,57	6 057,52	6 228,14	6 383,96
N ₂ O, t (Mg)	5 197,47	5 600,63	5 429,14	5 441,99	5 568,97
CH ₄ , t (Mg)	152 378,32	150 793,90	145 045,70	143 471,07	141 560,71
HFC, t (Mg) CO ₂ -equivalent	1 139 261,45	1 293 312,44	1 428 498,66	1 551 029,94	1 680 184,71
PFC, t (Mg) CO ₂ -equivalent	0	0	0	0	0
SF ₆ NF ₃ , t (Mg) CO ₂ -equivalent	6 598,64	7 017,27	6 270,64	7 852,18	8 763,41
NO _X , t (Mg) NO ₂ -equivalent	54 394,35	54 886,53	49 671,44	48 532,07	45 812,24
SO _X , t (Mg)	14 637,21	12 488,00	9 974,72	7 575,42	6 126,51
NH ₃ , t (Mg)	29 143,13	32 183,33	32 678,54	30 584,20	31 554,65
NMHOS, t (Mg)	71 624,18	68 824,42	69 171,09	73 827,71	70 295,28
CO, t (Mg)	260 334,75	254 494,20	232 286,00	218 650,84	217 182,99
PM ₁₀ , t (Mg)	43 639,06	38 095,59	42 442,73	34 722,86	51 408,80
PM _{2,5} , t (Mg)	31 035,24	29 435,72	28 527,74	27 020,37	28 495,81

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-2021-1-5.

NOTES ON METHODOLOGY

Sources and methods of data collection

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 the 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 present 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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