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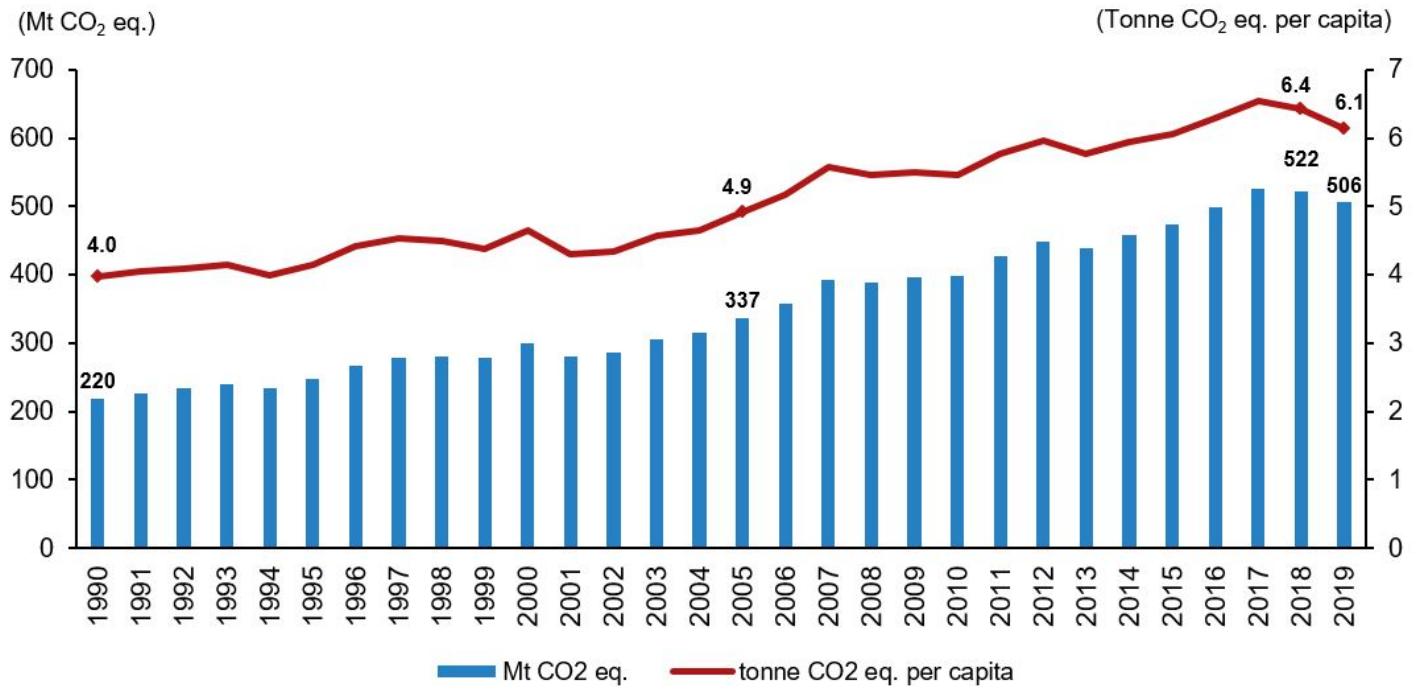
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Greenhouse Gas Emissions Statistics, 1990-2019

Total GHG emissions were 506.1 Mt CO₂ equivalent in 2019

The greenhouse gas inventory results revealed that overall greenhouse gas (GHG) emissions as CO₂ equivalent (eq.) for the year 2019 compared to the previous year decreased by 3.1% to 506.1 million tonnes (Mt). Total GHG emissions per capita was 4 tonnes CO₂ eq. in 1990 while it was calculated at 6.4 tonnes CO₂ eq. per capita for 2018 and 6.1 tonnes CO₂ eq. per capita for 2019.

Total and per capita GHG emissions, 1990-2019



The energy sector ranks first in emission amounts by sectors

In 2019, the energy sector had the largest share of total GHG emissions with 72%. The energy sector was followed by the agriculture sector with 13.4%, the industrial processes and product use with 11.2% and waste with 3.4%.

The energy sector emissions were calculated at 364.4 Mt CO₂ eq. in 2019, which increased by 161% compared to 1990 while decreased by 2.3% compared to previous year. Similarly, emissions from the industrial processes and product use sector were calculated at 56.4 Mt CO₂ eq. in 2019, which increased by 147.1% compared to 1990 while decreased by 14.3% compared to previous year.

Agriculture sector emissions were calculated at 68 Mt CO₂ eq. in 2019, which increased by 47.7% compared to 1990 and by 4.1% compared to previous year. Waste sector emissions were calculated at 17.2 Mt CO₂ eq. in 2019, which increased by 55.7% compared to 1990 while decreased by 5% compared to previous year.

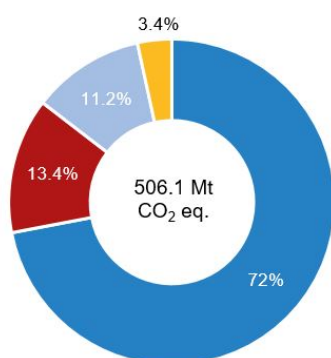
Greenhouse gas emissions by sector, 1990-2019

(Million tonnes CO₂ eq.)

	1990	2000	2010	2015	2016	2017	2018	2019	1990-2019 change (%)	2018-2019 change (%)
Total emissions	219.6	299.0	399.1	473.3	498.9	525.0	522.5	506.1	130.5	-3.1
Energy	139.6	216.1	287.0	340.9	359.7	379.9	373.1	364.4	161.0	-2.3
Industrial processes and product use	22.8	26.2	48.1	57.2	61.4	64.0	65.9	56.4	147.1	-14.3
Agriculture	46.1	42.3	44.4	56.1	58.9	63.3	65.3	68.0	47.7	4.1
Waste	11.1	14.3	19.5	19.0	19.0	17.8	18.1	17.2	55.7	-5.0

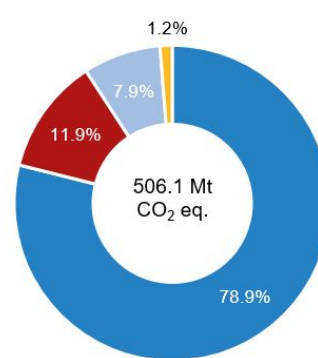
Figures in the table may not add up to the totals due to rounding.

Greenhouse gas emission shares by sector, 2019



■ Energy ■ Agriculture ■ Industrial Processes and Product Use ■ Waste

Greenhouse gas emission shares by gas, 2019



■ CO₂ ■ CH₄ ■ N₂O ■ F-gases

Biggest share in CO₂ emissions was observed in energy sector

87.4% of CO₂ emissions originated from the energy sector when 34.6% of total CO₂ emissions originated from electricity and heat production which is a sub-category of the energy sector. The remaining 12.3% of CO₂ emissions originated from the industrial processes and product use sector and 0.3% from the agriculture and waste sectors in 2019.

62.4% of CH₄ emissions originated from agriculture, 19.5% from energy, 18.1% from waste, and 0.03% from the industrial processes and product use sector, while 72.5% of N₂O emissions originated from the agriculture sector, 15.7% from waste, 8.8% from energy and 3% from the industrial processes and product use sector⁽¹⁾.

Greenhouse gas emissions by gas, 1990-2019

(Million tonnes CO₂ eq.)

	1990	2000	2010	2015	2016	2017	2018	2019	1990-2019 change (%)	2018-2019 change (%)
Total emissions	219.6	299.0	399.1	473.3	498.9	525.0	522.5	506.1	130.5	-3.1
CO ₂	151.5	229.8	314.4	381.3	401.2	425.3	419.4	399.3	163.6	-4.8
CH ₄	42.5	43.7	51.4	51.6	54.5	54.8	58.1	60.3	41.8	3.8
N ₂ O	25.0	24.8	29.8	35.4	37.7	39.1	39.3	40.2	61.2	2.4
F-gases	0.6	0.7	3.6	5.0	5.5	5.7	5.7	6.2	898.2	10.1

Figures in the table may not add up to the totals due to rounding. F-gases are fluorinated gases.

The next press release on this subject will be published in March 2022.

EXPLANATIONS

The greenhouse gas emissions statistics press release includes carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), and fluorinated gases (F-gases) which are direct GHGs originating from energy, industrial processes and product use,

agriculture and waste sectors. Indirect GHG emissions from nitrogen oxides (NO_x), non-methane volatile organic compounds (NMVOC), carbon monoxide (CO) and sulphur dioxide (SO₂) are not included.

(1) Figures may not add up to 100% due to rounding.



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