

Emissions Data, Climate Watch

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Summary

Climate Watch offers open data, visualizations and analysis to help policymakers, researchers and other stakeholders gather insights on countries' climate progress. Climate Watch is managed by World Resources Institute.

The site brings together dozens of datasets (from ClimateWatch, GCB, PIK, UNFCCC, etc.) to let users analyze and compare the Nationally Determined Contributions under the Paris Agreement, access historical emissions data, discover how countries can leverage their climate goals to achieve their sustainable development objectives, and use models to map new pathways.

The last update was in June 2024, resulting in 57 tables years ranging from 1990-2021.

Tables in IFs

Variable	Definition	Years	UsedInPreprocessor
EmissionsCH4AgricultureCW	CH4 emissions for the agriculture sector	1990-2021 0	
EmissionsCH4BuildingCW	CH4 emissions for the building sector	1990-2021 0	
EmissionsCH4BunkerFuelsCW	CH4 emissions for the bunker fuels sector	1990-2021 0	
EmissionsCH4ElectHeatCW	CH4 emissions for the electricity/heat sector	1990-2021 0	
EmissionsCH4EnergyCW	CH4 emissions for the energy sector	1990-2021 0	
EmissionsCH4FugitEmissionCW	CH4 emissions for the fugitive emission sector	1990-2021 0	
EmissionsCH4IndProcessCW	CH4 emissions for the industrial process sector	1990-2021 0	
EmissionsCH4LandUseCW	CH4 emissions for the land-use and forestry sector	1990-2021 0	
EmissionsCH4ManuConstrCW	CH4 emissions for the manufacturing/construction sector	1990-2021 0	
EmissionsCH4OtherFuelCW	CH4 emissions for the other fuel combustion sector	1990-2021 0	
EmissionsCH4TransportationCW	CH4 emissions for the transportation sector	1990-2021 0	
EmissionsCH4WasteCW	CH4 emissions for the waste sector	1990-2021 0	
EmissionsCO2BuildingCW	CO2 emissions for the building sector	1990-2021 0	
EmissionsCO2BunkerFuelsCW	CO2 emissions for the bunker fuels sector	1990-2021 0	
EmissionsCO2ElectHeatCW	CO2 emissions for the electricity/heat sector	1990-2021 0	
EmissionsCO2EnergyCW	CO2 emissions for the energy sector	1990-2021 0	
EmissionsCO2FugitEmissionCW	CO2 emissions for the fugitive emission sector	1990-2021 0	
EmissionsCO2IndProcessCW	CO2 emissions for the industrial process sector	1990-2021 0	
EmissionsCO2LandUseCW	CO2 emissions for the land-use and forestry sector	1990-2021 0	
EmissionsCO2ManuConstrCW	CO2 emissions for the manufacturing/construction sector	1990-2021 0	
EmissionsCO2OtherFuelCW	CO2 emissions for the other fuel combustion sector	1990-2021 0	
EmissionsCO2TotCW	CO2 emissions for the Tot excluding LUCF sector	1990-2021 0	
EmissionsCO2WithLUCFCW	CO2 emissions for the Tot including LUCF sector	1990-2021 0	
EmissionsFgasTotCW	F gas emissions for the Tot excluding LUCF sector	1990-2021 0	
EmissionsFgasWithLUCFCW	F gas emissions for the Tot including LUCF sector	1990-2021 0	
EmissionsN2OTotCW	N2O emissions for the Tot excluding LUCF sector	1990-2021 0	
EmissionsN2OWithLUCFCW	N2O emissions for the Tot including LUCF sector	1990-2021 0	
EmissionsTotGHGTotCW	Tot GHG emissions for the Tot excluding LUCF sector	1990-2021 0	
EmissionsTotGHGWithLUCFCW	Tot GHG emissions for the Tot including LUCF sector	1990-2021 0	
EmissionsCH4TotCW	CH4 emissions for the Tot excluding LUCF sector	1990-2021 0	
EmissionsCH4WithLUCFCW	CH4 emissions for the Tot including LUCF sector	1990-2021 0	
EmissionsCO2TransportationCW	CO2 emissions for the transportation sector	1990-2021 0	
EmissionsFgasIndProcessCW	F gas emissions for the industrial process sector	1990-2021 0	
EmissionsN2OAgricultureCW	N2O emissions for the agriculture sector	1990-2021 0	
EmissionsN2OBuildingCW	N2O emissions for the building sector	1990-2021 0	
EmissionsN2OBunkerFuelsCW	N2O emissions for the bunker fuels sector	1990-2021 0	
EmissionsN2OElectHeatCW	N2O emissions for the electricity/heat sector	1990-2021 0	
EmissionsN2OEnergyCW	N2O emissions for the energy sector	1990-2021 0	
EmissionsN2OFugitEmissionCW	N2O emissions for the fugitive emission sector	1990-2021 0	
EmissionsN2OIndProcessCW	N2O emissions for the industrial process sector	1990-2021 0	
EmissionsN2OLandUseCW	N2O emissions for the land-use and forestry sector	1990-2021 0	
EmissionsN2OManuConstrCW	N2O emissions for the manufacturing/construction sector	1990-2021 0	
EmissionsN2OOtherFuelCW	N2O emissions for the other fuel combustion sector	1990-2021 0	
EmissionsN2OTransportationCW	N2O emissions for the transportation sector	1990-2021 0	
EmissionsN2OWasteCW	N2O emissions for the waste sector	1990-2021 0	
EmissionsTotGHGAgricultureCW	Tot GHG emissions for agriculture	1990-2021 0	
EmissionsTotGHGBuildingCW	Tot GHG emissions for the building sector	1990-2021 0	
EmissionsTotGHGBunkerFuelsCW	Tot GHG emissions for the bunker fuels sector	1990-2021 0	
EmissionsTotGHGElectHeatCW	Tot GHG emissions for the electricity/heat sector	1990-2021 0	
EmissionsTotGHGEnergyCW	Tot GHG emissions for the energy sector	1990-2021 0	
EmissionsTotGHGFugitEmissionCW	Tot GHG emissions for the fugitive emission sector	1990-2021 0	
EmissionsTotGHGIndProcessCW	Tot GHG emissions for the industrial process sector	1990-2021 0	
EmissionsTotGHGLandUseCW	Tot GHG emissions for the land-use and forestry sector	1990-2021 0	
EmissionsTotGHGManuConstrCW	Tot GHG emissions for the manufacturing/construction sector	1990-2021 0	
EmissionsTotGHGOtherFuelCW	Tot GHG emissions for the other fuel combustion sector	1990-2021 0	
EmissionsTotGHGTransportationCW	Tot GHG emissions for the transportation sector	1990-2021 0	
EmissionsTotGHGWasteCW	Tot GHG emissions for the waste sector	1990-2021 0	

Data Pulling Instructions

1. Navigate to the ClimateWatch Data Explorer
2. This data explorer allows you to filter data sources, sectors, gases, years, and regions. You can visualize this data in a graph or there is an option to download All Data which is what RAs will use when updating these series.

Data Explorer

Here you can find all the raw data that is used in the other modules across the site. Filter the data using the picklists at the top and download the data for your own analysis.

Historical Emissions Pathways NDC-SDG Linkages NDC Content LTS Content Net Zero Content

Data sources Climate Watch **Parties and regions** All Selected **Sectors** Total including LUCF

Start year 1990 **End year** 2022

Raw Data Sources & Metadata

Country	Data source	Sector	Gas	Unit	2022	2021	2020	2019
Id	Climate Watch	Total including LUCF	All GHG	MtCO ₂ e	50122.98	49656.95	47566.6	49867.4

Download Bulk Data

- ALL DATA (13 MB) [Download](#)
- NDC TRACKER (58 KB) [Download](#)
- NDC CONTENT (4.8 MB) [Download](#)
- NDC-SDG LINKAGES (830 KB) [Download](#)
- NDC TEXT IN HTML (36 KB) [Download](#)
- LTS CONTENT (29 KB) [Download](#)
- PLEDGES (59 KB) [Download](#)
- GHG EMISSIONS (3.4 MB) [Download](#)
- AGRICULTURE PROFILE (1.1 MB) [Download](#)

3. Downloaded file:

ClimateWatch_Adaptation.zip	Compressed (zipped) Folder	10 KB	No	10 KB
ClimateWatch_AgricultureProfile.zip	Compressed (zipped) Folder	1,086 KB	No	1,086 KB
ClimateWatch_HistoricalEmissions.zip	Compressed (zipped) Folder	3,533 KB	No	3,532 KB
ClimateWatch_LTS.zip	Compressed (zipped) Folder	30 KB	No	30 KB
ClimateWatch_NDC_Content.zip	Compressed (zipped) Folder	4,957 KB	No	4,960 KB
ClimateWatch_NDC_SDG.zip	Compressed (zipped) Folder	829 KB	No	830 KB
ClimateWatch_NDC_Text.zip	Compressed (zipped) Folder	36 KB	No	37 KB
ClimateWatch_NDC_Tracker.zip	Compressed (zipped) Folder	59 KB	No	59 KB
ClimateWatch_Pathways.zip	Compressed (zipped) Folder	2,121 KB	No	2,120 KB
ClimateWatch_Pledge.zip	Compressed (zipped) Folder	59 KB	No	59 KB
ClimateWatch_SocioEconomics.zip	Compressed (zipped) Folder	232 KB	No	232 KB

4. Once the zip file is downloaded, extract, and open the folders "ClimateWatch_HistoricalEmissions" and under this folder open "CW_HistoricalEmissions_ClimateWatch.csv"

1. The csv files only give the Country Code so it is imperative that the country codes match the right country when importing into IFs

- For country codes open the folder "Climate Watch_NDC_Content" and open the "CW_NDC_data_highlevel.csv" file. Use the first two columns (Country and ISO) to build the country concordance for the "CW_HistoricalEmissions_ClimateWatch.csv" data.
- For each series filter the "Sector" and "Gas" for each table. There should be here should be 57 tables in total.

Data Notes

- Building the country concordance is an important step! The ISO code and FIPS code are different and data will be missing if you do not build your country concordance with the

first two columns.

1. Example COD is Congo, Dem. Republic of the in Climate Watch but in IFs with FIPS it is ZAR

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