

Data Set Citation

When using this data, please cite the data package

Gilfillan D , Marland G , Boden T , and Andres R. 2020.
Global, Regional, and National Fossil-Fuel CO2 Emissions: 1751-2017
ess-dive-aae0b5aa2d984c7-20210430T033939927774 (
<https://data.ess-dive.lbl.gov/catalog/metacat/ess-dive-aae0b5aa2d984c7-20210430T033939927774/default>)

General Information

Title:	Global, Regional, and National Fossil-Fuel CO2 Emissions: 1751-2017
Identifier:	autogen.2021042920394327217.1
Abstract:	This data product is a time series of Carbon Dioxide (CO2) emissions from fossil fuel combustion and cement manufacture. Estimates of CO2 emissions are included for the globe and by nation back to 1751, and include emissions from solid fuel consumption, liquid fuel consumption, gas fuel consumption, cement production, and gas flaring. Per capita CO2 emissions and emissions from international trade (bunker fuels) are included as well; bunker fuels are not included in country totals, but are assigned to the country in which loading took place. Estimates are generated using the United Nations Energy Statistics database and the United States Geologic Survey’s cement statistics. Datasets produced from this group at Appalachian State University are located here, and are also located at https://energy.appstate.edu/research/work-areas/cdiac-appstate . Historic CDIAC data from Oak Ridge National Laboratory are located here: https://data.ess-dive.lbl.gov/view/doi:10.3334/CDIAC/00001_V2017 . This dataset is the foundational dataset for the annual global carbon budget and other carbon cycle analyses that need relevant fossil fuel CO2 data. Within this data package are spreadsheets (.csv) of global and national estimates of CO2 emissions as well as text files of the ranking of each country’s total CO2 emissions and per capita for that year.
Keywords:	CATEGORICAL:NONE: <ul style="list-style-type: none">Fossil Fuel CO2 emissionsGlobal Carbon CycleGreenhouse Gas Emissions VARIABLE:NONE: <ul style="list-style-type: none">metric tons of Carbon
Publication Date:	2020

Data Table, Image, and Other Data Details:

Metadata download [Ecological Metadata Language \(EML\) File](#)

Other Entity:

Name:	top2017_cap.txt
Data Object Type:	text/plain

Other Entity:

Name:	nation_1751_2017.csv
Data Object Type:	application/vnd.ms-excel

Other Entity:

Name:	nation_1751_2016.csv
Data Object Type:	application/vnd.ms-excel

Other Entity:

Name:	top2017_tot.txt
Data Object Type:	text/plain

Other Entity:

Name:	global_1751_2017.csv
Data Object Type:	application/vnd.ms-excel

Other Entity:

Name:	top2015_cap.txt
Data Object Type:	text/plain

Other Entity:

Name:	nation_1751_2015.csv
Data Object Type:	application/vnd.ms-excel

Other Entity:

Name:	top2016_cap.txt
Data Object Type:	text/plain

Other Entity:

Name:	global_1751_2016.csv
Data Object Type:	application/vnd.ms-excel

Other Entity:

Name:	top2016_tot.txt
Data Object Type:	text/plain

Other Entity:

Name:	top2015_tot.txt
Data Object Type:	text/plain

Other Entity:

Name:	global_1751_2015.csv
Data Object Type:	application/vnd.ms-excel

Involved Parties

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Associated Parties

Organization:	Appalachian State University
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Data Set Publishers

Organization:	CDIAC-FF, Research Institute for Environment, Energy, and Economics, Appalachian State University
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Data Set Characteristics

Time Period:	
Begin:	1751
End:	2017

Sampling, Processing and Quality Control Methods

Data Set Usage Rights

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