

CO₂ emissions from fossil fuels

Thousand metric tons and kilograms per capita

Table Notes

This table displays estimates of carbon dioxide (CO₂) emissions from the combustion of fossil fuels based on information from the UN Energy Statistics Database, including country-specific net calorific values (NCVs), where applicable. No estimates for other greenhouse gases are provided, not even in CO₂-equivalent terms. One thousand metric tons are equivalent to one Gigagram, the S.I. unit employed by the IPCC.

To arrive at estimates of carbon dioxide emissions, default IPCC emission factors (kg of CO₂ per TJ of fuel combusted) are applied. To obtain figures in TJ per fuel, like in other tables of this Yearbook, country-specific NCVs are used where applicable and available, and default NCVs are used where applicable but country-specific data are unavailable.

Total is approximately equivalent to the IPCC Reference approach for the energy sector plus the IPCC source/sink category “Industrial Processes and Product Use” (IPPU)¹. In other words, it is based on the total energy supply of fossil fuels as in an energy balance, minus the non-energy use of fuels.

Total is broken down in **Coal**, **Oil** and **Gas** depending on the emission source, whether from solid, liquid, or gaseous fossil fuels, respectively. **Per capita** figures are calculated by dividing **Total** by population.

The emission estimates in this table exclude those from the combustion of non-renewable waste, which is a deviation from the IPCC guidelines (including the reference approach). On the other hand, such emissions are minor compared with those from fossil fuels and may be added in future versions of this table.

The table also provides estimates for emissions coming from **International bunkers** (marine and aviation combined) and natural **Gas flaring**. In the IPCC methodology, emissions from **International bunkers** are excluded from national emission inventories and therefore are not included in **Total**. For the world inventories, **International bunkers** should be added to **Total**. Emissions from natural **Gas flaring**, although part of the energy sector, are not accounted for as combustion², but rather as fugitive emissions, likewise being excluded from **Total**. In this table, only flaring occurred in the extraction (production) of natural gas is accounted for as flaring, and data may be missing for some countries and/or years.

¹ Please refer to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories available from <https://www.ipcc.ch/report/2006-ipcc-guidelines-for-national-greenhouse-gas-inventories/>

² For inventory purposes, the IPCC defines fuel combustion as the intentional oxidation of materials within an apparatus that is designed to provide heat or mechanical work to a process, or for use away from the apparatus. Information about fossil fuel combustion tends to be much more accurate than information about fugitive emissions (which are not directly observable), and the separation between these categories preserves the accuracy of the emission estimates from combustion.

Table 4

CO2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
World	2020	14,257,010	9,435,534	7,418,836	31,111,380	3,945	897,605	249,941
	2021	15,140,165	10,059,389	7,866,190	33,065,744	4,157	946,644	272,365
	2022	15,779,999	10,237,673	7,722,012	33,739,684	4,207	1,081,831	254,563
	2023	15,997,572	10,381,263	7,738,740	34,117,575	4,217	1,181,654	273,818
Africa	2020	450,269	510,514	282,527	1,243,309	902	30,838	40,896
	2021	450,514	584,512	308,386	1,343,412	951	33,482	48,844
	2022	430,549	561,504	298,604	1,290,657	893	37,163	41,130
	2023	443,502	583,613	288,852	1,315,968	890	43,392	44,539
Algeria	2020	679	60,310	82,233	143,222	3,252	*1,406	6,285
	2021	1,384	63,634	90,744	155,762	3,480	*1,416	5,477
	2022	972	66,802	96,134	163,908	3,604	*1,676	5,083
	2023	804	69,428	98,225	168,457	3,649	2,210	4,334
Angola	2020	..	10,535	*2,552	13,087	391	808	4,531
	2021	..	13,132	*2,533	15,664	454	821	4,137
	2022	..	15,380	1,978	17,358	487	1,219	3,940
	2023	..	15,359	2,283	17,642	480	1,746	3,999
Benin	2020	269	4,603	326	5,198	398	51	..
	2021	307	4,760	362	5,429	405	55	..
	2022	364	5,006	313	5,684	413	112	..
	2023	386	6,140	303	6,829	484	129	..
Botswana	2020	3,060	3,318	..	6,378	2,696	12	..
	2021	3,438	3,448	..	6,887	2,868	16	..
	2022	4,548	3,088	..	7,636	3,130	29	..
	2023	5,200	2,832	..	8,032	3,238	37	..
Burkina Faso	2020	..	4,302	..	4,302	200	57	..
	2021	..	5,142	..	5,142	234	92	..
	2022	..	6,046	..	6,046	269	97	..
	2023	..	7,086	..	7,086	308	127	..
Burundi	2020	26	731	..	757	60	7	..
	2021	47	753	..	800	62	8	..
	2022	46	845	..	891	67	12	..
	2023	27	742	..	770	56	10	..
Cabo Verde	2020	..	*531	..	*531	*1,031	*249	..
	2021	..	*604	..	*604	*1,168	*249	..
	2022	..	596	..	596	1,148	*262	..
	2023	..	*619	..	*619	*1,185	*260	..
Cameroon	2020	..	5,084	1,746	6,829	261	23	1,774
	2021	..	4,874	1,420	6,294	234	36	1,538
	2022	..	5,033	1,247	6,280	227	46	1,470
	2023	..	5,071	998	6,068	214	46	1,313
Central African Rep.	2020	..	343	..	343	68	12	..
	2021	..	376	..	376	74	13	..
	2022	..	413	..	413	81	14	..
	2023	..	*438	..	*438	*85	*15	..
Chad	2020	..	*1,945	..	*1,945	*113	*86	..
	2021	..	*2,155	..	*2,155	*121	*86	..
	2022	..	*2,159	..	*2,159	*117	*80	..
	2023	..	*1,991	..	*1,991	*103	*88	..
Comoros	2020	..	*380	..	*380	*474	*18	..
	2021	..	*511	..	*511	*624	*21	..
	2022	..	*542	..	*542	*650	*25	..
	2023	..	*585	..	*585	*688	*27	..

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CO2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Congo	2020	..	1,573	2,129	3,701	643	67	3,524
	2021	..	1,901	2,171	4,073	691	69	2,999
	2022	..	1,896	2,479	4,375	725	93	3,585
	2023	..	2,043	2,189	4,233	685	100	3,292
Côte d'Ivoire	2020	..	6,681	4,482	11,163	386	466	2
	2021	..	9,078	4,675	13,753	464	620	1
	2022	..	10,468	5,113	15,581	513	754	1
	2023	..	10,997	5,429	16,427	527	876	2
Dem. Rep. of the Congo	2020	..	3,430	..	3,430	36	311	..
	2021	..	3,287	..	3,287	33	380	..
	2022	..	4,738	..	4,738	46	252	..
	2023	..	3,424	..	3,424	32	162	..
Djibouti	2020	..	378	..	378	342	*293	..
	2021	..	*418	..	*418	*373	*353	..
	2022	..	*390	..	*390	*343	*329	..
	2023	..	*421	..	*421	*365	*337	..
Egypt	2020	5,817	94,778	107,228	207,823	1,901	2,160	4,649
	2021	9,286	101,107	113,026	223,419	2,014	2,094	4,103
	2022	8,202	105,734	96,806	210,743	1,871	1,945	3,880
	2023	5,542	102,737	86,362	194,642	1,699	3,824	3,206
Equatorial Guinea	2020	..	746	4,726	5,472	3,188	*87	1,300
	2021	..	721	5,781	6,502	3,697	*78	946
	2022	..	703	6,292	6,995	3,878	*98	965
	2023	..	816	5,533	6,349	3,436	*69	*406
Eritrea	2020	..	597	..	597	181	75	..
	2021	..	629	..	629	188	81	..
	2022	..	666	..	666	195	99	..
	2023	..	699	..	699	201	105	..
Eswatini	2020	148	866	..	1,014	850	2	..
	2021	167	846	..	1,013	840	1	..
	2022	187	862	..	1,049	861	3	..
	2023	298	873	..	1,171	951	5	..
Ethiopia	2020	1,775	11,567	..	13,342	112	1,195	..
	2021	2,412	12,288	..	14,700	120	2,601	..
	2022	2,566	11,914	..	14,480	115	2,978	..
	2023	2,776	11,635	..	14,411	112	3,501	..
Gabon	2020	..	1,811	956	2,767	1,191	574	2,892
	2021	..	2,009	864	2,873	1,209	535	2,637
	2022	..	1,756	1,198	2,953	1,215	632	2,763
	2023	..	2,214	876	3,090	1,243	635	2,338
Gambia	2020	..	*718	..	*718	*285	*55	..
	2021	..	*745	..	*745	*289	*60	..
	2022	..	*825	..	*825	*313	*63	..
	2023	..	*845	..	*845	*313	*64	..
Ghana	2020	..	12,398	6,371	18,769	589	396	696
	2021	..	14,041	6,741	20,782	639	624	1,181
	2022	..	12,747	7,340	20,087	606	611	977
	2023	..	14,861	7,372	22,233	658	625	1,002
Guinea	2020	..	4,533	..	4,533	339	*82	..
	2021	..	4,177	..	4,177	305	*130	..
	2022	..	4,112	..	4,112	293	*139	..
	2023	..	*4,197	..	*4,197	*291	*141	..

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Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Guinea-Bissau	2020	..	289	..	289	143	0	..
	2021	..	318	..	318	154	0	..
	2022	..	350	..	350	166	*3	..
	2023	..	*363	..	*363	*168	*3	..
Kenya	2020	2,006	16,423	..	18,429	353	1,256	..
	2021	2,353	15,486	..	17,839	335	1,675	..
	2022	2,851	14,395	..	17,246	318	1,732	..
	2023	3,545	14,809	..	18,354	332	2,190	..
Lesotho	2020	65	645	0	710	317	0	..
	2021	69	711	0	780	345	*1	..
	2022	56	928	0	984	430	0	..
	2023	59	710	0	769	333	*1	..
Liberia	2020	..	493	..	493	96	*22	..
	2021	..	382	..	382	73	*24	..
	2022	..	512	..	512	95	*25	..
	2023	..	582	..	582	106	*33	..
Libya	2020	..	16,932	7,535	24,468	3,473	358	3,901
	2021	..	19,792	16,396	36,188	5,072	1,086	10,994
	2022	..	7,475	16,716	24,191	3,349	991	5,635
	2023	..	30,359	18,162	48,521	6,642	1,201	12,215
Madagascar	2020	*1,289	2,553	..	3,843	133	64	..
	2021	*1,328	3,003	..	4,331	146	48	..
	2022	1,194	3,017	..	4,211	138	93	..
	2023	1,226	3,040	..	4,266	137	121	..
Malawi	2020	202	1,456	..	1,659	85	8	..
	2021	139	1,336	..	1,476	74	23	..
	2022	156	1,434	..	1,590	77	34	..
	2023	*164	*1,535	..	*1,699	*80	*44	..
Mali	2020	..	5,893	..	5,893	271	160	..
	2021	..	6,907	..	6,907	308	264	..
	2022	..	6,440	..	6,440	279	195	..
	2023	..	*6,567	..	*6,567	*276	*198	..
Mauritania	2020	..	4,993	..	4,993	1,085	*94	..
	2021	..	*4,770	..	*4,770	*1,007	109	..
	2022	..	5,572	..	5,572	1,143	*119	..
	2023	..	5,109	..	5,109	1,017	*107	..
Mauritius	2020	1,622	2,284	..	3,906	3,044	2,187	..
	2021	1,809	2,270	..	4,079	3,188	2,037	..
	2022	1,423	2,996	..	4,419	3,463	1,869	..
	2023	1,599	3,016	..	4,616	3,624	2,000	..
Morocco	2020	26,495	33,728	1,599	61,823	1,690	1,310	..
	2021	27,789	37,625	1,597	67,011	1,813	1,616	..
	2022	28,148	38,237	450	66,835	1,790	2,418	..
	2023	26,238	36,977	1,793	65,007	1,724	2,939	..
Mozambique	2020	80	4,668	1,732	6,479	210	60	*99
	2021	27	5,559	1,985	7,572	239	50	*177
	2022	34	5,610	2,120	7,764	238	89	866
	2023	7	5,545	2,078	7,631	227	163	474
Namibia	2020	*152	2,898	..	3,050	1,118	265	..
	2021	*129	3,053	..	3,182	1,132	296	..
	2022	31	2,995	..	3,026	1,047	309	..
	2023	51	3,136	..	3,187	1,076	322	..

CO2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Niger	2020	289	2,530	80	2,899	122	*140	..
	2021	123	2,214	119	2,457	100	*143	..
	2022	255	*2,506	85	*2,845	*112	*205	..
	2023	232	2,908	77	3,217	123	104	..
Nigeria	2020	2,344	65,218	33,266	100,828	471	1,768	10,777
	2021	3,187	83,538	35,472	122,196	559	2,111	14,112
	2022	3,340	69,890	35,437	108,666	487	2,463	11,407
	2023	2,573	68,189	32,399	103,161	453	2,502	11,400
Rwanda	2020	*41	*1,373	*91	*1,505	*115	*50	..
	2021	*67	1,353	*93	1,513	113	*76	..
	2022	*211	*1,388	*93	*1,692	*124	*79	..
	2023	*274	*1,470	*100	*1,844	*132	*90	..
Sao Tome and Principe	2020	..	*146	..	*146	*673	*11	..
	2021	..	*148	..	*148	*666	*12	..
	2022	..	*138	..	*138	*611	*12	..
	2023	..	*149	..	*149	*645	*13	..
Senegal	2020	1,410	6,820	28	8,259	492	1,178	..
	2021	2,061	7,549	14	9,625	559	1,062	..
	2022	2,183	9,103	10	11,296	640	976	..
	2023	327	9,549	10	9,886	547	1,220	..
Seychelles	2020	..	*609	..	*609	*5,061	*475	..
	2021	..	*621	..	*621	*5,048	*409	..
	2022	..	*639	..	*639	*5,094	*440	..
	2023	..	*646	..	*646	*5,051	*501	..
Sierra Leone	2020	..	1,205	..	1,205	152	5	..
	2021	..	1,475	..	1,475	182	9	..
	2022	..	1,488	..	1,488	180	17	..
	2023	..	1,502	..	1,502	178	11	..
Somalia	2020	..	*1,179	..	*1,179	*71	*305	..
	2021	..	*1,198	..	*1,198	*69	*337	..
	2022	..	*1,322	..	*1,322	*74	*351	..
	2023	..	*1,370	..	*1,370	*75	*364	..
South Africa	2020	391,479	47,373	9,814	448,666	7,408	10,882	..
	2021	383,273	72,977	7,293	463,544	7,537	9,244	..
	2022	359,048	60,940	7,115	427,102	6,847	9,896	..
	2023	375,407	62,567	7,281	445,255	7,044	10,618	..
South Sudan	2020	..	2,449	..	2,449	229	*300	..
	2021	..	2,653	..	2,653	244	*359	..
	2022	..	2,786	..	2,786	253	*614	..
	2023	..	2,991	..	2,991	260	631	..
St. Helena and Depend.	2020	..	11	..	11	2,026	..	..
	2021	..	9	..	9	1,727	..	..
	2022	..	11	..	11	2,033	..	..
	2023	..	*11	..	*11	*2,072	..	..
Sudan	2020	..	19,656	..	19,656	420	*319	..
	2021	..	19,090	..	19,090	397	*456	..
	2022	..	17,378	..	17,378	352	*490	..
	2023	..	12,603	..	12,603	252	*410	..
Togo	2020	..	1,771	144	1,915	221	177	..
	2021	..	1,432	292	1,724	194	297	..
	2022	..	1,480	339	1,820	200	311	..
	2023	..	1,612	274	1,886	203	356	..

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Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Tunisia	2020	..	12,615	12,377	24,992	2,087	340	460
	2021	..	13,651	13,267	26,917	2,234	436	537
	2022	..	13,561	12,975	26,536	2,190	693	550
	2023	..	12,707	12,463	25,169	2,063	792	550
Uganda	2020	*1	5,117	..	5,118	115	178	..
	2021	0	5,657	..	5,657	123	264	..
	2022	*1	5,502	..	5,503	116	390	..
	2023	*1	6,167	..	6,168	127	411	..
United Rep. of Tanzania	2020	1,287	9,288	3,113	13,688	224	321	*5
	2021	1,537	10,354	3,540	15,431	246	407	*6
	2022	2,072	10,948	4,365	17,385	269	497	*7
	2023	2,092	10,744	4,644	17,481	262	582	*8
Zambia	2020	4,639	4,605	..	9,244	485	55	..
	2021	3,687	4,913	..	8,600	439	73	..
	2022	5,326	4,989	..	10,316	512	102	..
	2023	5,016	5,307	..	10,323	498	142	..
Zimbabwe	2020	5,093	3,135	..	8,228	530	57	..
	2021	5,892	3,831	..	9,723	615	118	..
	2022	7,336	4,752	..	12,088	752	182	..
	2023	9,656	5,321	..	14,977	917	183	..
Asia	2020	11,303,553	4,313,628	2,918,416	18,535,597	3,954	461,597	112,474
	2021	11,901,963	4,473,057	3,125,025	19,500,046	4,133	476,589	119,517
	2022	12,663,772	4,626,380	3,060,658	20,350,811	4,286	518,741	108,817
	2023	13,184,746	4,819,309	3,153,582	21,157,637	4,428	585,950	116,191
Afghanistan	2020	*719	7,230	158	8,107	208	*36	..
	2021	412	5,445	301	6,158	154	*39	..
	2022	348	8,255	364	8,968	221	*19	..
	2023	670	9,162	390	10,221	247	*25	..
Armenia	2020	30	1,468	5,029	6,527	2,258	117	..
	2021	46	1,536	5,496	7,078	2,466	164	..
	2022	45	1,532	5,701	7,279	2,527	309	..
	2023	52	1,656	5,285	6,994	2,376	355	..
Azerbaijan	2020	3	9,738	23,922	33,663	3,306	1,160	2,361
	2021	1	10,383	24,844	35,228	3,442	1,409	*2,649
	2022	1	11,899	26,032	37,931	3,684	1,389	*3,447
	2023	0	11,418	26,969	38,388	3,720	1,315	*3,477
Bahrain	2020	..	2,934	30,778	33,712	22,731	905	465
	2021	..	2,569	29,730	32,300	21,508	1,015	267
	2022	..	3,913	29,766	33,678	21,962	1,636	185
	2023	..	2,227	31,686	33,913	21,605	1,709	188
Bangladesh	2020	11,025	26,597	58,620	96,243	579	1,472	29
	2021	14,857	27,288	57,440	99,585	594	1,202	51
	2022	16,876	29,812	56,969	103,657	612	1,126	41
	2023	15,580	38,087	53,155	106,821	623	2,045	32
Bhutan	2020	530	417	..	946	1,229	4	..
	2021	770	423	..	1,193	1,538	3	..
	2022	828	487	..	1,315	1,684	6	..
	2023	787	699	0	1,485	1,889	11	..
Brunei Darussalam	2020	2,227	3,587	4,262	10,076	22,520	135	501
	2021	2,867	3,393	4,486	10,746	23,789	56	577
	2022	2,807	3,491	5,590	11,888	26,105	116	318
	2023	2,810	2,806	4,864	10,481	22,837	192	280

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Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Cambodia	2020	6,726	9,432	..	16,158	966	137	..
	2021	5,955	9,388	..	15,343	904	65	..
	2022	5,727	9,717	..	15,444	898	117	..
	2023	10,944	10,010	..	20,953	1,203	210	..
China	2020	7,534,299	1,501,741	642,675	9,678,716	6,787	49,783	5,418
	2021	7,891,553	1,510,483	729,833	10,131,869	7,103	52,489	5,044
	2022	8,280,858	1,501,313	724,197	10,506,368	7,372	47,520	4,902
	2023	8,657,763	1,605,370	769,925	11,033,059	7,756	51,509	4,707
China, Hong Kong SAR	2020	13,008	11,378	9,679	34,065	4,548	33,397	..
	2021	14,454	10,175	9,672	34,301	4,583	29,931	..
	2022	14,214	7,513	9,443	31,170	4,175	26,610	..
	2023	13,887	8,567	10,045	32,499	4,367	33,695	..
China, Macao SAR	2020	..	779	143	922	1,350	12	..
	2021	..	619	168	787	1,133	10	..
	2022	..	575	231	806	1,144	7	..
	2023	..	669	240	908	1,272	45	..
Cyprus	2020	55	5,689	..	5,744	4,411	1,159	..
	2021	162	5,660	..	5,822	4,420	1,272	..
	2022	129	5,816	..	5,944	4,465	1,702	..
	2023	109	5,821	..	5,929	4,409	1,657	..
Georgia	2020	936	3,524	5,104	9,564	2,520	186	1
	2021	951	3,753	5,335	10,039	2,650	307	0
	2022	992	3,783	6,425	11,200	2,952	428	0
	2023	866	3,961	6,448	11,275	2,961	424	2
India	2020	1,576,927	*568,308	*73,421	2,218,657	1,582	*8,648	2,941
	2021	1,764,631	*606,216	*79,092	2,449,939	1,732	10,643	2,904
	2022	2,018,629	700,568	*76,081	2,795,279	1,961	*15,319	3,064
	2023	2,178,075	749,603	86,395	3,014,073	2,096	18,149	3,005
Indonesia	2020	353,540	210,441	71,006	634,987	2,311	2,500	12,387
	2021	347,122	213,976	73,301	634,399	2,292	1,500	12,341
	2022	531,037	232,665	73,840	837,542	3,004	1,613	3,315
	2023	527,679	224,239	77,143	829,060	2,948	3,119	3,269
Iran (Islamic Rep. of)	2020	5,359	194,887	441,272	641,518	7,313	3,900	26,121
	2021	6,123	223,927	465,517	695,567	7,863	6,231	34,055
	2022	7,202	216,326	466,178	689,705	7,704	6,575	33,928
	2023	7,471	212,037	497,086	716,594	7,909	6,829	40,095
Iraq	2020	..	93,860	35,256	129,116	3,066	988	34,229
	2021	..	112,544	36,289	148,833	3,456	1,118	35,250
	2022	..	135,240	36,164	171,405	3,889	1,284	35,272
	2023	..	149,067	38,729	187,796	4,166	1,226	35,822
Israel	2020	17,886	18,400	22,757	59,043	6,709	2,535	*2
	2021	14,998	19,957	23,697	58,653	6,559	2,937	1
	2022	15,202	22,198	24,523	61,923	6,802	4,531	18
	2023	12,535	23,913	25,137	61,584	6,653	4,388	46
Japan	2020	401,041	361,670	215,929	978,640	7,748	23,553	..
	2021	429,656	371,200	203,148	1,004,004	7,989	26,827	..
	2022	429,175	381,666	193,925	1,004,766	8,038	29,141	..
	2023	391,825	357,830	186,972	936,627	7,531	34,947	..
Jordan	2020	647	11,463	7,555	19,664	1,810	268	..
	2021	1,144	12,079	7,327	20,550	1,857	*188	..
	2022	*2,241	12,937	7,658	22,836	2,029	*201	..
	2023	4,049	13,222	7,120	24,391	2,132	*213	..

Table 4

CO2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Kazakhstan	2020	130,263	32,595	46,535	209,393	10,748	651	*390
	2021	133,699	49,229	39,323	222,250	11,257	1,526	807
	2022	133,391	44,246	42,012	219,649	10,963	1,394	563
	2023	144,211	49,382	45,638	239,231	11,767	1,595	696
Korea, Dem.Ppl's.Rep.	2020	62,378	3,074	..	65,452	2,504	..	..
	2021	50,883	2,486	..	53,369	2,034	..	..
	2022	52,999	2,595	..	55,595	2,112	..	..
	2023	55,600	2,883	..	58,483	2,214	..	..
Korea, Republic of	2020	294,980	156,721	111,801	563,501	10,866	39,703	..
	2021	298,519	178,520	123,746	600,786	11,587	40,418	..
	2022	269,468	154,863	123,324	547,655	10,576	45,625	..
	2023	260,813	165,388	117,787	543,988	10,512	49,280	..
Kuwait	2020	..	19,598	43,265	62,863	14,287	4,552	1,456
	2021	..	12,939	45,068	58,007	13,302	4,739	1,340
	2022	..	44,592	48,560	93,153	20,297	5,945	1,147
	2023	399	41,339	52,973	94,711	19,573	6,274	1,063
Kyrgyzstan	2020	3,315	3,690	667	7,672	1,151	*6	..
	2021	4,342	4,289	786	9,417	1,381	*13	..
	2022	5,861	3,976	873	10,709	1,540	*25	..
	2023	4,485	3,900	914	9,299	1,315	*19	..
Lao People's Dem. Rep.	2020	13,879	2,727	..	16,606	2,260	*35	..
	2021	14,271	2,747	..	17,018	2,283	*13	..
	2022	15,640	2,804	..	18,444	2,440	14	..
	2023	15,867	*2,904	..	18,771	2,449	*79	..
Lebanon	2020	46	23,852	..	23,898	4,191	..	..
	2021	166	19,219	..	19,386	3,390	..	..
	2022	55	15,416	..	15,471	2,693	..	..
	2023	61	16,142	..	16,203	2,806	..	..
Malaysia	2020	98,834	60,923	64,360	224,118	6,613	4,186	1,970
	2021	90,887	64,896	78,786	234,568	6,842	3,891	1,773
	2022	95,192	81,367	92,418	268,977	7,753	5,894	2,010
	2023	93,730	89,473	88,446	271,649	7,733	8,244	1,773
Maldives	2020	..	1,734	..	1,734	3,454	*200	..
	2021	..	2,061	..	2,061	3,993	*215	..
	2022	..	2,275	..	2,275	4,341	*276	..
	2023	..	2,400	..	2,400	4,562	*336	..
Mongolia	2020	27,953	5,085	..	33,037	10,039	56	..
	2021	31,962	4,921	..	36,883	11,044	80	..
	2022	30,892	5,254	..	36,146	10,675	204	..
	2023	34,107	6,587	..	40,694	11,857	305	..
Myanmar	2020	4,520	19,648	8,778	32,946	621	50	50
	2021	3,010	15,051	9,285	27,346	512	32	41
	2022	3,056	16,828	9,261	29,145	542	66	26
	2023	4,840	18,261	8,572	31,673	585	33	30
Nepal	2020	5,529	7,324	..	12,853	444	122	..
	2021	4,727	7,658	..	12,385	420	271	..
	2022	2,844	8,196	..	11,040	372	320	..
	2023	3,737	7,070	..	10,806	364	363	..
Oman	2020	..	7,948	51,851	59,799	13,223	*1,115	4,959
	2021	..	6,549	54,083	60,632	13,473	616	4,876
	2022	..	8,081	56,044	64,125	13,556	1,557	4,082
	2023	..	11,707	58,758	70,465	13,956	1,423	4,367

CO2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Other Asia	2020	144,417	59,518	55,729	259,664	10,973	10,663	..
	2021	170,215	55,147	60,632	285,994	12,140	11,516	..
	2022	160,482	59,039	62,840	282,361	12,056	11,166	..
	2023	151,948	59,471	61,914	273,333	11,722	13,324	..
Pakistan	2020	62,235	76,680	80,977	219,892	936	1,312	476
	2021	61,728	85,748	74,131	221,607	925	1,450	463
	2022	46,979	64,367	72,323	183,669	754	*1,425	473
	2023	50,020	67,753	73,979	191,752	775	2,413	447
Philippines	2020	71,485	46,851	7,877	126,213	1,126	2,142	..
	2021	77,122	50,097	6,755	133,974	1,185	1,941	..
	2022	78,292	57,416	6,258	141,967	1,246	4,206	..
	2023	92,773	56,298	6,071	155,142	1,350	5,366	..
Qatar	2020	..	-5,507	84,639	79,132	28,228	4,666	2,167
	2021	..	-6,445	88,137	81,692	29,020	5,578	2,167
	2022	..	478	86,754	87,233	30,159	6,850	2,384
	2023	..	-8,488	90,188	81,700	27,425	7,822	2,522
Saudi Arabia	2020	439	281,850	228,803	511,091	16,491	*12,008	4,461
	2021	543	324,397	237,002	561,941	17,937	*12,642	4,183
	2022	492	307,733	189,270	497,495	15,462	19,391	3,665
	2023	820	313,174	190,433	504,427	15,164	22,047	4,902
Singapore	2020	1,710	47,578	21,673	70,961	12,626	162,422	..
	2021	1,838	42,694	22,120	66,652	12,017	161,587	..
	2022	2,326	48,230	21,889	72,444	12,822	162,197	..
	2023	*2,205	43,770	23,054	69,029	11,924	179,361	..
Sri Lanka	2020	6,734	13,186	..	19,919	883	1,720	..
	2021	6,603	14,601	..	21,203	934	2,378	..
	2022	6,133	10,588	..	16,720	732	2,541	..
	2023	5,511	12,060	..	17,571	765	2,666	..
State of Palestine	2020	..	3,388	..	3,388	668	..	..
	2021	..	3,703	..	3,703	714	..	..
	2022	..	4,773	..	4,773	900	..	..
	2023	..	4,282	..	4,282	792	..	..
Syrian Arab Republic	2020	105	21,587	4,652	26,344	1,252	1,003	2,094
	2021	99	17,125	7,148	24,371	1,127	989	2,284
	2022	86	17,584	6,197	23,867	1,063	1,037	2,099
	2023	38	18,949	6,333	25,320	1,073	1,072	2,134
Tajikistan	2020	3,684	3,368	*456	7,508	770	77	..
	2021	3,835	3,145	477	7,456	748	52	..
	2022	4,381	3,706	484	8,571	842	192	..
	2023	3,634	3,893	469	7,996	770	221	..
Thailand	2020	53,248	111,119	92,726	257,094	3,589	*7,933	636
	2021	62,654	99,660	93,329	255,643	3,564	6,882	524
	2022	56,985	95,297	84,124	236,407	3,296	*10,719	428
	2023	50,224	99,999	90,837	241,060	3,362	*13,625	414
Timor-Leste	2020	..	605	0	605	456	*10	70
	2021	..	592	0	592	438	*11	78
	2022	..	624	0	624	456	*12	54
	2023	..	610	0	610	441	*12	64
Türkiye	2020	161,117	111,438	91,753	364,307	4,232	7,462	4
	2021	166,113	118,979	113,493	398,585	4,598	10,069	4
	2022	168,914	123,120	97,384	389,419	4,473	14,214	4
	2023	160,808	128,530	95,175	384,512	4,406	15,659	4

Table 4

CO2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Turkmenistan	2020	..	16,066	43,941	60,007	8,634	202	3,285
	2021	..	15,929	74,173	90,102	12,705	107	2,305
	2022	..	16,252	71,547	87,799	12,143	271	2,108
	2023	..	16,318	68,139	84,458	11,468	447	2,285
United Arab Emirates	2020	8,451	37,244	134,665	180,360	19,089	65,521	1,882
	2021	10,506	32,633	126,772	169,912	17,357	69,732	1,712
	2022	4,123	33,777	137,135	175,035	17,090	78,663	1,827
	2023	5,819	44,582	142,268	192,669	18,104	85,551	1,787
Uzbekistan	2020	12,046	12,183	79,801	104,029	3,097	*350	1,085
	2021	10,711	*10,882	101,342	122,934	3,590	289	924
	2022	12,437	11,326	95,209	118,972	3,405	491	863
	2023	16,722	13,687	91,171	121,580	3,410	618	716
Viet Nam	2020	210,241	69,561	15,863	295,665	3,015	2,245	1,317
	2021	201,008	65,341	12,720	279,070	2,821	1,863	1,042
	2022	185,559	73,606	13,624	272,789	2,737	4,110	1,164
	2023	200,850	79,328	12,833	293,011	2,920	5,448	1,185
Yemen	2020	984	18,450	40	19,475	539	287	1,718
	2021	821	17,252	40	18,114	488	284	1,853
	2022	871	18,267	40	19,179	502	288	1,433
	2023	420	17,296	40	17,756	451	282	881
Europe	2020	1,225,254	1,627,321	1,776,890	4,629,465	6,158	242,820	40,152
	2021	1,374,333	1,729,467	1,959,930	5,063,730	6,744	258,763	52,730
	2022	1,371,660	1,762,388	1,787,862	4,921,911	6,570	321,905	52,745
	2023	1,205,618	1,688,889	1,706,418	4,600,925	6,152	331,039	58,196
Albania	2020	597	2,921	97	3,614	1,259	149	..
	2021	899	2,892	104	3,895	1,367	142	..
	2022	568	2,970	90	3,628	1,283	210	..
	2023	570	2,681	88	3,339	1,188	272	..
Andorra	2020	0	383	5	389	5,022	0	..
	2021	0	418	7	425	5,425	0	..
	2022	0	441	7	448	5,621	*1	..
	2023	0	444	9	453	5,605	*1	..
Austria	2020	10,013	28,497	16,395	54,905	6,154	1,013	..
	2021	10,342	29,866	17,387	57,595	6,423	1,291	..
	2022	10,126	29,094	15,493	54,713	6,036	1,905	..
	2023	9,839	28,360	13,122	51,322	5,621	2,668	..
Belarus	2020	3,357	16,900	32,452	52,710	5,637	334	..
	2021	3,339	17,960	33,234	54,533	5,895	387	..
	2022	3,628	17,124	31,964	52,716	5,747	369	..
	2023	3,666	16,310	28,681	48,658	5,338	366	..
Belgium	2020	8,690	38,605	32,756	80,051	6,937	24,057	..
	2021	9,624	40,979	33,221	83,825	7,244	28,856	..
	2022	10,159	39,713	28,402	78,274	6,724	29,815	..
	2023	8,757	39,246	26,582	74,586	6,368	27,490	..
Bosnia and Herzegovina	2020	16,305	4,424	403	21,132	6,405	12	..
	2021	16,103	4,968	485	21,556	6,643	43	..
	2022	15,744	4,825	473	21,043	6,566	92	..
	2023	14,194	4,886	427	19,507	6,124	96	..
Bulgaria	2020	16,937	12,052	5,556	34,546	4,982	690	..
	2021	21,514	12,646	6,295	40,455	5,882	773	..
	2022	25,617	13,487	5,160	44,264	6,485	888	..
	2023	15,057	13,063	4,824	32,944	4,848	935	..

Table 4

CO2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Croatia	2020	1,443	8,120	5,003	14,566	3,684	226	13
	2021	1,656	8,431	5,085	15,173	3,866	370	3
	2022	1,622	9,244	4,888	15,754	4,032	618	1
	2023	1,401	10,102	5,115	16,618	4,265	672	5
Czechia	2020	49,276	19,708	16,866	85,850	8,137	347	..
	2021	51,682	21,067	18,119	90,869	8,629	467	..
	2022	54,277	21,526	14,750	90,553	8,484	807	..
	2023	43,438	21,994	13,397	78,829	7,292	1,041	..
Denmark	2020	3,104	16,397	4,961	24,463	4,195	2,768	92
	2021	4,365	16,545	4,533	25,443	4,344	2,793	81
	2022	4,272	16,713	3,414	24,399	4,133	3,908	68
	2023	2,778	15,872	3,107	21,757	3,658	4,286	66
Estonia	2020	10,895	-589	818	11,124	8,366	1,010	..
	2021	11,879	-820	926	11,985	8,999	1,095	..
	2022	12,943	20	688	13,651	10,111	1,137	..
	2023	10,354	-749	595	10,200	7,460	890	..
Faeroe Islands	2020	..	*783	..	*783	*14,888	169	..
	2021	..	*810	..	*810	*15,194	179	..
	2022	..	*742	..	*742	*13,729	187	..
	2023	..	*768	..	*768	*14,033	184	..
Finland	2020	12,016	18,315	4,922	35,254	6,375	1,853	..
	2021	12,591	17,203	4,880	34,673	6,257	1,739	..
	2022	12,428	17,893	2,476	32,797	5,889	2,693	..
	2023	9,867	18,489	2,872	31,228	5,575	2,809	..
France	2020	20,326	156,209	79,646	256,181	3,760	11,291	13
	2021	34,069	165,559	84,562	284,190	4,159	12,430	12
	2022	29,748	168,480	75,874	274,103	4,000	18,842	2
	2023	23,696	169,371	66,659	259,726	3,781	19,888	*6
Germany	2020	179,209	233,058	168,531	580,799	6,945	18,124	25
	2021	216,910	216,539	174,508	607,958	7,264	23,023	20
	2022	223,219	223,067	152,637	598,924	7,123	32,265	18
	2023	170,658	210,242	146,221	527,121	6,235	32,923	19
Gibraltar	2020	..	190	78	268	7,404	13,652	..
	2021	..	184	80	264	7,164	13,321	..
	2022	..	181	80	261	6,935	14,872	..
	2023	..	187	85	272	7,069	14,317	..
Greece	2020	7,525	26,576	10,695	44,796	4,187	6,364	..
	2021	7,027	27,246	12,083	46,355	4,382	8,008	..
	2022	6,528	31,085	10,293	47,906	4,601	9,874	..
	2023	5,061	29,673	9,056	43,789	4,275	10,189	..
Hungary	2020	6,765	16,865	19,296	42,925	4,403	309	225
	2021	5,481	18,122	20,575	44,177	4,551	375	207
	2022	5,014	18,825	17,801	41,640	4,300	788	171
	2023	3,595	17,577	15,517	36,689	3,788	911	133
Iceland	2020	-34	1,507	..	1,473	4,018	339	..
	2021	60	1,599	..	1,659	4,452	606	..
	2022	12	1,718	..	1,730	4,549	1,135	..
	2023	-29	1,677	..	1,648	4,251	1,292	..
Ireland	2020	4,298	17,236	10,725	32,259	6,474	1,658	..
	2021	5,186	18,165	10,263	33,615	6,685	1,851	..
	2022	4,374	18,131	10,474	32,979	6,454	3,432	..
	2023	2,828	17,644	9,722	30,195	5,810	3,829	..

Table 4

CO2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Isle of Man	2020	..	..	267	267	3,174	..	..
	2021	..	..	183	183	2,179	..	..
	2022	..	..	249	249	2,963	..	..
	2023	..	..	250	250	2,975	..	..
Italy	2020	20,271	112,808	135,367	268,446	4,478	12,484	..
	2021	22,077	133,992	145,077	301,146	5,039	13,144	..
	2022	29,309	132,071	130,485	291,865	4,893	16,710	..
	2023	19,077	135,319	117,139	271,535	4,561	18,400	..
Kosovo	2020	6,365	2,244	..	8,610	4,916	7	..
	2021	6,461	2,515	..	8,976	5,154	7	..
	2022	6,321	2,343	..	8,664	5,043	11	..
	2023	5,311	2,575	..	7,887	4,639	7	..
Latvia	2020	94	3,846	2,138	6,078	3,197	828	0
	2021	75	3,951	2,265	6,290	3,336	891	0
	2022	53	3,956	1,625	5,634	2,995	672	0
	2023	54	4,052	1,612	5,718	3,038	524	0
Liechtenstein	2020	..	..	49	49	1,253	..	..
	2021	..	..	54	54	1,388	..	..
	2022	..	..	46	46	1,158	..	..
	2023	..	..	42	42	1,065	..	..
Lithuania	2020	605	7,717	2,504	10,827	3,873	750	..
	2021	719	7,882	2,552	11,154	3,991	789	..
	2022	714	8,074	1,887	10,676	3,790	804	..
	2023	453	8,279	1,821	10,552	3,697	719	..
Luxembourg	2020	153	5,763	1,459	7,375	11,695	1,674	..
	2021	157	6,061	1,573	7,791	12,168	1,910	..
	2022	163	5,279	1,235	6,678	10,221	1,983	..
	2023	91	5,147	1,158	6,396	9,616	1,829	..
Malta	2020	..	867	747	1,615	3,116	7,267	..
	2021	..	873	750	1,623	3,095	6,518	..
	2022	..	1,031	758	1,789	3,388	7,268	..
	2023	..	989	792	1,781	3,342	7,750	..
Montenegro	2020	1,579	917	..	2,496	4,106	15	..
	2021	1,386	1,149	..	2,535	4,197	38	..
	2022	1,472	1,147	..	2,619	4,261	55	..
	2023	1,580	1,147	..	2,726	4,303	78	..
Netherlands (Kingd. of the)	2020	16,069	42,903	68,049	127,021	7,202	43,718	35
	2021	22,049	46,122	64,604	132,775	7,488	43,100	153
	2022	21,839	45,325	51,050	118,214	6,602	45,085	126
	2023	14,899	46,350	48,346	109,595	6,057	43,067	..
North Macedonia	2020	3,611	2,964	656	7,231	3,863	48	..
	2021	2,661	3,247	833	6,741	3,642	51	..
	2022	3,470	3,555	563	7,588	4,124	82	..
	2023	3,191	3,504	710	7,405	4,043	39	..
Norway	2020	3,183	20,819	9,509	33,511	6,230	1,451	611
	2021	3,220	20,349	10,764	34,333	6,348	1,460	547
	2022	3,168	15,752	8,570	27,489	5,038	2,340	634
	2023	2,885	17,581	9,848	30,314	5,493	2,358	519
Poland	2020	163,158	75,729	35,362	274,249	7,185	2,348	44
	2021	181,178	82,450	38,223	301,850	7,935	2,823	30
	2022	168,588	84,660	31,343	284,591	7,414	3,856	28
	2023	136,811	87,039	33,832	257,683	6,648	4,463	35

CO2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Portugal	2020	2,752	22,273	12,046	37,071	3,575	3,828	..
	2021	936	22,214	11,508	34,657	3,335	4,177	..
	2022	30	24,404	11,160	35,594	3,417	6,536	..
	2023	23	24,713	8,813	33,548	3,216	6,818	..
Republic of Moldova	2020	299	2,660	1,811	4,771	1,554	53	..
	2021	352	2,966	2,074	5,392	1,783	128	..
	2022	246	3,152	1,478	4,876	1,604	142	..
	2023	214	3,211	1,204	4,629	1,509	140	..
Romania	2020	14,399	27,021	21,454	62,874	3,242	264	24
	2021	16,815	29,639	22,202	68,656	3,567	333	40
	2022	14,681	30,275	19,347	64,304	3,355	303	59
	2023	10,809	32,042	18,173	61,024	3,192	329	62
Russian Federation	2020	467,771	322,570	793,708	1,584,050	10,822	25,755	37,127
	2021	520,230	354,920	933,022	1,808,172	12,399	24,278	50,052
	2022	569,083	371,136	890,404	1,830,624	12,575	25,654	50,229
	2023	561,776	324,192	875,080	1,761,048	12,108	27,649	55,982
Serbia	2020	32,568	9,039	4,321	45,928	6,649	292	..
	2021	28,871	10,105	5,375	44,351	6,488	385	0
	2022	28,493	11,340	5,438	45,271	6,666	480	1
	2023	27,862	10,870	5,294	44,025	6,500	617	0
Slovakia	2020	9,080	8,523	8,690	26,293	4,820	88	12
	2021	11,130	8,909	9,735	29,774	5,470	69	10
	2022	9,447	9,338	8,142	26,928	4,920	104	14
	2023	9,561	9,067	7,774	26,402	4,785	88	4
Slovenia	2020	4,226	5,789	1,715	11,731	5,580	403	..
	2021	3,747	6,334	1,807	11,888	5,625	309	..
	2022	3,146	6,983	1,593	11,722	5,542	67	..
	2023	3,044	6,503	1,539	11,086	5,233	60	..
Spain	2020	12,082	117,276	64,552	193,910	4,067	25,017	..
	2021	12,772	131,569	67,688	212,030	4,442	28,787	..
	2022	14,650	139,725	65,554	219,929	4,598	38,519	..
	2023	10,223	130,924	58,192	199,339	4,161	39,502	..
Sweden	2020	6,219	20,542	2,063	28,823	2,784	9,146	..
	2021	6,904	22,357	1,523	30,784	2,955	9,144	..
	2022	5,981	22,371	1,085	29,437	2,807	8,612	..
	2023	5,848	21,849	1,279	28,976	2,746	7,571	..
Switzerland	2020	363	23,393	6,698	30,453	3,524	2,103	..
	2021	366	22,608	7,284	30,259	3,475	2,379	..
	2022	382	22,156	5,995	28,533	3,245	4,237	..
	2023	302	21,681	5,550	27,533	3,104	5,085	..
Ukraine	2020	87,955	39,695	47,861	175,511	3,928	..	..
	2021	97,051	43,335	50,492	190,878	4,309	..	..
	2022	49,880	37,399	33,814	121,093	2,950	312	..
	2023	47,689	27,523	35,501	110,713	2,934	205	..
United Kingdom	2020	21,726	133,807	146,658	302,190	4,487	20,916	1,933
	2021	22,448	145,541	153,994	321,982	4,758	20,293	1,576
	2022	20,263	145,635	141,074	306,971	4,502	34,236	1,395
	2023	18,183	146,496	126,388	291,067	4,238	38,686	1,361
Latin America & Carib.	2020	155,591	847,259	428,647	1,431,497	2,217	42,107	34,272
	2021	164,016	955,865	470,021	1,589,901	2,448	48,118	31,722
	2022	151,212	988,936	439,822	1,579,971	2,418	61,859	33,014
	2023	146,771	997,314	467,422	1,611,507	2,450	66,454	32,993

Table 4

CO2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Anguilla	2020	..	128	..	128	8,656	*19	..
	2021	..	136	..	136	9,366	*34	..
	2022	..	142	..	142	9,989	*37	..
	2023	..	*151	..	*151	*10,504	*35	..
Antigua and Barbuda	2020	..	*594	..	*594	*6,470	*373	..
	2021	..	*614	..	*614	*6,653	*386	..
	2022	..	*621	..	*621	*6,694	*386	..
	2023	..	*630	..	*630	*6,749	*389	..
Argentina	2020	3,371	61,354	89,866	154,590	3,421	2,277	0
	2021	4,714	80,610	94,314	179,639	3,964	1,639	0
	2022	4,944	81,051	90,424	176,419	3,885	3,963	0
	2023	3,903	76,395	98,534	178,832	3,927	6,046	0
Aruba	2020	..	*834	..	*834	*7,766	*284	..
	2021	..	*874	..	*874	*8,129	*307	..
	2022	..	*897	..	*897	*8,319	*318	..
	2023	..	*884	..	*884	*8,190	*318	..
Bahamas	2020	*4	2,048	..	2,052	5,184	*1,284	..
	2021	*4	2,553	..	2,557	6,452	*1,890	..
	2022	*4	2,720	..	2,724	6,852	*1,356	..
	2023	*4	2,523	..	2,527	6,325	*1,142	..
Barbados	2020	..	1,165	31	1,196	4,245	195	*2
	2021	..	1,076	27	1,104	3,911	167	*2
	2022	..	1,195	32	1,227	4,345	336	*2
	2023	..	1,187	34	1,221	4,324	444	1
Belize	2020	..	657	1	658	1,684	*66	2
	2021	..	690	..	690	1,745	*70	1
	2022	..	717	..	717	1,781	73	2
	2023	..	771	..	771	1,875	73	2
Bolivia (Plur. State of)	2020	9	10,285	6,720	17,014	1,440	82	87
	2021	23	12,703	7,401	20,127	1,686	91	70
	2022	22	13,688	7,628	21,338	1,767	163	83
	2023	22	15,038	8,336	23,395	1,911	196	71
Bonaire, St Eustatius, Saba	2020	..	124	..	124	4,681	39	..
	2021	..	142	..	142	5,199	64	..
	2022	..	151	..	151	5,288	115	..
	2023	..	176	..	176	5,880	105	..
Brazil	2020	55,823	276,548	61,774	394,145	1,889	15,105	2,724
	2021	68,288	293,487	85,778	447,553	2,136	12,758	2,364
	2022	57,680	295,091	63,459	416,230	1,979	15,709	2,502
	2023	56,042	300,734	59,934	416,710	1,974	15,679	2,776
British Virgin Islands	2020	..	*176	..	*176	*4,741	*8	..
	2021	..	*180	..	*180	*4,756	*8	..
	2022	..	*183	..	*183	*4,767	*8	..
	2023	..	*186	..	*186	*4,759	*8	..
Cayman Islands	2020	..	642	..	642	9,351	47	..
	2021	..	651	..	651	9,292	24	..
	2022	..	664	..	664	9,272	82	..
	2023	..	734	..	734	10,055	112	..
Chile	2020	26,288	44,835	9,946	81,069	4,185	1,318	11
	2021	25,166	48,421	11,063	84,651	4,351	1,584	8
	2022	20,733	50,440	12,331	83,504	4,271	2,017	5
	2023	12,004	50,464	12,104	74,572	3,793	2,183	7

CO2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Colombia	2020	20,051	43,960	24,301	88,312	1,744	1,636	607
	2021	19,181	55,993	22,024	97,198	1,899	1,899	78
	2022	17,126	56,113	21,777	95,015	1,836	3,288	77
	2023	19,450	57,506	22,265	99,221	1,896	3,100	75
Costa Rica	2020	0	6,512	..	6,513	1,294	306	..
	2021	53	7,349	..	7,402	1,463	542	..
	2022	1	7,671	..	7,672	1,510	752	..
	2023	1	8,235	..	8,236	1,613	803	..
Cuba	2020	5	19,361	1,763	21,129	1,891	*1,507	28
	2021	13	20,737	1,701	22,451	2,019	*1,526	76
	2022	10	19,653	1,662	21,324	1,928	*1,483	90
	2023	13	20,728	1,882	22,622	2,053	*1,964	118
Curaçao	2020	..	1,158	..	1,158	6,258	5,217	..
	2021	..	1,284	..	1,284	6,930	5,485	..
	2022	..	1,343	..	1,343	7,246	5,978	..
	2023	..	1,305	..	1,305	7,036	6,266	..
Dominica	2020	..	*162	..	*162	*2,391	*5	..
	2021	..	*163	..	*163	*2,432	*5	..
	2022	..	*168	..	*168	*2,510	*5	..
	2023	..	*176	..	*176	*2,651	*5	..
Dominican Republic	2020	6,812	15,837	2,857	25,507	2,317	799	..
	2021	6,480	18,030	3,519	28,030	2,520	1,321	..
	2022	6,791	19,496	2,598	28,885	2,572	1,865	..
	2023	7,117	19,730	3,702	30,548	2,696	1,785	..
Ecuador	2020	..	28,052	1,057	29,109	1,659	899	1,209
	2021	..	33,695	1,115	34,809	1,969	3,390	1,173
	2022	..	36,732	1,028	37,760	2,119	3,776	1,349
	2023	..	41,048	701	41,749	2,322	4,136	1,580
El Salvador	2020	1	5,837	..	5,838	936	215	..
	2021	2	6,664	0	6,666	1,066	401	..
	2022	1	7,143	410	7,555	1,203	466	..
	2023	1	7,440	947	8,387	1,329	535	..
Falkland Is. (Malvinas)	2020	3	*80	..	*83	*23,546	*12	..
	2021	3	*83	..	*86	*24,474	*13	..
	2022	*3	*82	..	*85	*24,337	*13	..
	2023	3	85	..	87	25,100	*13	..
Grenada	2020	..	296	..	296	2,541	26	..
	2021	..	318	..	318	2,729	27	..
	2022	..	343	..	343	2,932	30	..
	2023	..	361	..	361	3,080	27	..
Guatemala	2020	3,043	13,069	..	16,112	928	1,393	..
	2021	3,895	14,872	..	18,767	1,066	1,758	..
	2022	1,487	15,905	..	17,392	974	1,781	..
	2023	2,835	16,652	..	19,486	1,075	1,905	..
Guyana	2020	0	2,651	2	2,653	3,286	15	..
	2021	1	2,939	2	2,942	3,608	24	..
	2022	1	4,015	3	4,019	4,891	29	..
	2023	2	3,704	*1	3,706	4,485	*38	..
Haiti	2020	..	2,994	..	2,994	266	41	..
	2021	..	3,181	..	3,181	280	44	..
	2022	..	2,477	..	2,477	215	17	..
	2023	..	1,139	..	1,139	98	10	..

Table 4

CO2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Honduras	2020	..	9,503	..	9,503	939	..	..
	2021	..	10,528	..	10,528	1,023	..	..
	2022	..	11,130	..	11,130	1,064	..	..
	2023	..	11,915	..	11,915	1,119	..	..
Jamaica	2020	243	4,871	1,223	6,337	2,239	474	..
	2021	243	5,262	1,261	6,766	2,384	530	..
	2022	203	5,292	1,190	6,686	2,355	766	..
	2023	7	6,117	1,464	7,589	2,672	905	..
Mexico	2020	35,383	205,541	164,587	405,511	3,198	3,357	0
	2021	30,859	225,265	169,818	425,942	3,337	5,944	0
	2022	36,951	237,848	166,089	440,889	3,428	8,726	0
	2023	40,822	233,724	181,939	456,485	3,518	8,941	0
Montserrat	2020	..	23	..	23	5,097	*3	..
	2021	..	*23	..	*23	*5,150	*3	..
	2022	..	23	..	23	5,255	*2	..
	2023	..	23	..	23	5,222	*2	..
Nicaragua	2020	..	4,520	..	4,520	688	20	..
	2021	..	5,052	..	5,052	760	28	..
	2022	..	5,260	..	5,260	781	49	..
	2023	..	5,705	..	5,705	836	70	..
Panama	2020	2,355	5,110	921	8,386	1,953	656	..
	2021	2,243	6,842	1,100	10,186	2,344	1,037	..
	2022	2,186	7,787	520	10,493	2,384	1,999	..
	2023	1,760	9,160	1,033	11,954	2,681	2,450	..
Paraguay	2020	2	7,671	..	7,673	1,162	178	..
	2021	2	8,186	..	8,189	1,225	287	..
	2022	2	7,586	..	7,588	1,122	312	..
	2023	1	7,537	..	7,538	1,101	416	..
Peru	2020	1,990	27,130	13,520	42,640	1,298	1,573	139
	2021	2,634	32,516	16,050	51,201	1,544	1,808	134
	2022	2,834	34,675	18,299	55,809	1,667	2,230	137
	2023	2,539	37,516	19,639	59,694	1,764	2,099	179
Puerto Rico	2020	..	..	2,758	2,758	842	..	..
	2021	..	..	3,940	3,940	1,211	..	..
	2022	..	..	2,789	2,789	861	..	..
	2023	..	..	4,513	4,513	1,392	..	..
Saint Barthélemy	2020	..	*111	..	*111	*10,548	*26	..
	2021	..	*113	..	*113	*10,499	*29	..
	2022	..	*120	..	*120	*10,976	*35	..
	2023	..	*123	..	*123	*11,066	*34	..
Saint Martin (French Part)	2020	..	*418	..	*418	*13,157	*242	..
	2021	..	*419	..	*419	*13,980	*241	..
	2022	..	*417	..	*417	*14,444	*250	..
	2023	..	*416	..	*416	*15,135	*250	..
Sint Maarten (Dutch part)	2020	..	*670	..	*670	*16,346	*587	..
	2021	..	*701	..	*701	*16,852	*646	..
	2022	..	*712	..	*712	*16,898	*707	..
	2023	..	*699	..	*699	*16,354	*679	..
St. Kitts-Nevis	2020	..	*248	..	*248	*5,291	*16	..
	2021	..	*243	..	*243	*5,188	*16	..
	2022	..	*256	..	*256	*5,485	*17	..
	2023	..	*261	..	*261	*5,585	*18	..

CO2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
St. Lucia	2020	..	*487	..	*487	*2,730	*87	..
	2021	..	*519	..	*519	*2,908	*91	..
	2022	..	*528	..	*528	*2,954	*94	..
	2023	..	*542	..	*542	*3,023	*97	..
St. Vincent-Grenadines	2020	..	241	..	241	2,327	0	..
	2021	..	*240	..	*240	*2,330	0	..
	2022	..	*250	..	*250	*2,446	0	..
	2023	..	*252	..	*252	*2,483	0	..
Suriname	2020	..	2,914	14	2,927	4,781	*215	2
	2021	..	2,635	13	2,648	4,286	*241	2
	2022	..	2,796	14	2,810	4,509	*254	*2
	2023	..	2,543	14	2,557	4,066	*359	*2
Trinidad and Tobago	2020	..	3,386	12,157	15,543	10,494	506	2,742
	2021	..	3,072	11,808	14,880	10,002	547	2,323
	2022	..	3,524	9,139	12,663	8,465	*596	1,992
	2023	..	3,432	9,301	12,733	8,472	*560	2,005
Turks and Caicos Islands	2020	..	*366	..	*366	*8,254	*77	..
	2021	..	*374	..	*374	*8,271	*79	..
	2022	..	*372	..	*372	*8,119	*78	..
	2023	..	*374	..	*374	*8,093	*79	..
Uruguay	2020	0	5,930	126	6,057	1,782	445	..
	2021	0	7,296	145	7,441	2,191	417	..
	2022	6	6,830	152	6,988	2,061	534	..
	2023	10	6,817	139	6,967	2,056	594	..
Venezuela (Bolivar. Rep.)	2020	208	28,760	35,023	63,990	2,250	477	26,718
	2021	210	39,130	38,940	78,280	2,772	722	25,491
	2022	227	44,830	40,276	85,333	3,025	1,167	26,772
	2023	236	42,179	40,944	83,359	2,945	1,586	26,177
Northern America	2020	939,760	1,981,112	1,923,219	4,844,090	12,824	103,606	21,784
	2021	1,075,823	2,165,630	1,916,333	5,157,786	13,618	122,587	19,199
	2022	1,002,754	2,145,223	2,046,091	5,194,068	13,651	131,745	18,461
	2023	854,652	2,125,688	2,032,676	5,013,016	13,092	138,470	21,597
Bermuda	2020	0	451	..	451	7,008	*66	..
	2021	0	516	..	516	7,987	*73	..
	2022	0	*539	..	*539	*8,331	*75	..
	2023	0	*516	..	*517	*7,984	*75	..
Canada	2020	39,151	226,772	256,856	522,780	13,695	7,373	2,854
	2021	45,324	229,611	255,912	530,847	13,805	7,182	3,142
	2022	32,414	240,319	272,251	544,984	14,038	11,811	3,302
	2023	34,229	233,265	273,824	541,317	13,774	13,936	3,545
Greenland	2020	..	564	..	564	10,061	43	..
	2021	..	546	..	546	9,742	52	..
	2022	..	603	..	603	10,763	82	..
	2023	..	608	..	608	10,865	95	..
St. Pierre-Miquelon	2020	..	*63	..	*63	*10,822	*10	..
	2021	..	*56	..	*56	*9,763	*5	..
	2022	..	*54	..	*54	*9,465	*4	..
	2023	..	*65	..	*65	*11,499	*5	..
United States	2020	900,609	1,753,261	1,666,362	4,320,232	12,728	96,114	18,930
	2021	1,030,498	1,934,901	1,660,421	4,625,820	13,599	115,276	16,056
	2022	970,340	1,903,709	1,773,840	4,647,888	13,609	119,772	15,159
	2023	820,422	1,891,234	1,758,852	4,470,509	13,015	124,358	18,051

Table 4

CO2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Oceania	2020	182,583	155,701	89,138	427,422	9,697	16,637	362
	2021	173,517	150,858	86,495	410,870	9,221	7,104	353
	2022	160,051	153,242	88,974	402,267	8,930	10,419	395
	2023	162,283	166,450	89,789	418,522	9,186	16,349	303
American Samoa	2020	..	*403	..	*403	*8,092	*73	..
	2021	..	*403	..	*403	*8,182	*73	..
	2022	..	*409	..	*409	*8,458	*73	..
	2023	..	*415	..	*415	*8,725	*78	..
Australia	2020	174,774	124,186	80,385	379,344	14,735	13,593	202
	2021	165,678	118,386	78,886	362,949	13,983	5,010	170
	2022	153,908	120,977	81,461	356,346	13,600	7,104	182
	2023	157,012	133,543	82,294	372,849	14,096	11,599	123
Cook Islands	2020	..	*69	..	*69	*4,417	*8	..
	2021	..	*75	..	*75	*4,954	*6	..
	2022	..	*79	..	*79	*5,386	*18	..
	2023	..	*83	..	*83	*5,868	*25	..
Fiji	2020	..	1,398	..	1,398	1,527	336	..
	2021	..	1,114	..	1,114	1,216	216	..
	2022	..	1,404	..	1,404	1,527	569	..
	2023	..	1,675	..	1,675	1,812	629	..
French Polynesia	2020	..	851	..	851	3,047	..	..
	2021	..	894	..	894	3,194	..	..
	2022	..	912	..	912	3,252	..	..
	2023	..	962	..	962	3,422	..	..
Kiribati	2020	..	*72	..	*72	*574	*2	..
	2021	..	*73	..	*73	*566	*2	..
	2022	..	*74	..	*74	*566	*2	..
	2023	..	*74	..	*74	*561	*2	..
Marshall Islands	2020	..	*150	..	*150	*3,518	*6	..
	2021	..	*150	..	*150	*3,618	*6	..
	2022	..	*152	..	*152	*3,789	*6	..
	2023	..	*153	..	*153	*3,943	*7	..
Micronesia (Fed. States of)	2020	..	*146	..	*146	*1,317	*30	..
	2021	..	*144	..	*144	*1,294	*30	..
	2022	..	*147	..	*147	*1,312	*30	..
	2023	..	*148	..	*148	*1,316	*31	..
Nauru	2020	..	*55	..	*55	*4,705	*22	..
	2021	..	*58	..	*58	*4,934	*23	..
	2022	..	*60	..	*60	*5,107	*23	..
	2023	..	*61	..	*61	*5,102	*23	..
New Caledonia	2020	2,115	2,419	..	4,535	15,957	65	..
	2021	1,728	2,261	..	3,989	13,987	73	..
	2022	2,069	2,368	..	4,437	15,454	108	..
	2023	1,797	2,468	..	4,266	14,716	103	..
New Zealand	2020	5,694	18,292	6,734	30,720	6,059	2,120	52
	2021	6,111	19,764	5,842	31,717	6,210	1,313	53
	2022	4,073	18,682	5,645	28,401	5,534	2,079	45
	2023	3,474	18,615	5,577	27,666	5,348	3,445	46
Niue	2020	..	*6	..	*6	*3,571	*2	..
	2021	..	*7	..	*7	*3,597	*2	..
	2022	..	*7	..	*7	*3,686	*2	..
	2023	..	*7	..	*7	*3,579	*2	..

CO2 emissions from fossil fuel combustion

Thousand metric tons and kilograms per capita

Country or area	Year	Type of fuel			Total	Per capita	Additional sources	
		Coal	Oil	Natural gas			International bunkers	Gas flaring
Northern Mariana Islands	2020	..	*274	..	*274	*5,775	38	..
	2021	..	*312	..	*312	*6,640	47	..
	2022	..	*310	..	*310	*6,727	47	..
	2023	..	*312	..	*312	*6,905	47	..
Palau	2020	..	*215	..	*215	*12,108	*19	..
	2021	..	*217	..	*217	*12,203	*19	..
	2022	..	*221	..	*221	*12,468	*19	..
	2023	..	*226	..	*226	*12,726	*19	..
Papua New Guinea	2020	..	6,017	2,020	8,037	819	*212	108
	2021	..	5,787	1,767	7,554	754	*178	130
	2022	..	6,288	1,868	8,156	799	*222	167
	2023	..	*6,426	*1,919	*8,345	*803	*222	134
Samoa	2020	..	240	..	240	1,134	*11	..
	2021	..	274	..	274	1,284	*7	..
	2022	..	240	..	240	1,115	11	..
	2023	..	*261	..	*261	*1,204	*11	..
Solomon Islands	2020	..	*500	..	*500	*672	*46	..
	2021	..	*517	..	*517	*679	*48	..
	2022	..	*535	..	*535	*685	*49	..
	2023	..	*554	..	*554	*692	*51	..
Tonga	2020	..	143	..	143	1,349	1	..
	2021	..	144	..	144	1,363	0	..
	2022	..	149	..	149	1,418	0	..
	2023	..	151	..	151	1,446	0	..
Tuvalu	2020	..	*11	..	*11	*1,046	*1	..
	2021	..	*11	..	*11	*1,074	*1	..
	2022	..	*11	..	*11	*1,098	*1	..
	2023	..	*11	..	*11	*1,122	*1	..
Vanuatu	2020	..	225	..	225	751	*49	..
	2021	..	239	..	239	780	*51	..
	2022	..	185	..	185	590	*53	..
	2023	..	274	..	274	857	*53	..
Wallis and Futuna Is.	2020	..	*28	..	*28	*2,415	3	..
	2021	..	*29	..	*29	*2,476	2	..
	2022	..	*31	..	*31	*2,691	3	..
	2023	..	*31	..	*31	*2,729	3	..