

IEA CO2 Data (MMTCO2)

	2005	2006	2007	2008
Region/Country/Economy				
Canada	540.431495	531.138638	561.893801	541.874075
Chile	54.434634	55.677498	63.075016	66.533464
Mexico	412.385135	426.860195	433.36909	434.539402
United States	5703.220175	5602.449666	5686.716019	5512.512876
OECD Americas	6710.471439	6616.125997	6745.053926	6555.459817
Australia	365.515118	370.839121	381.067827	384.311003
Israel	58.796711	62.007447	64.268459	64.478539
Japan	1166.814399	1144.715317	1186.361509	1122.344144
Korea	457.672117	464.712085	477.413786	488.844473
New Zealand	33.690287	33.742482	32.602133	33.460866
OECD Asia Oceania	2082.488632	2076.016452	2141.713714	2093.439025
Austria	74.764026	72.355239	69.327062	68.802565
Belgium	107.676772	105.533637	101.500283	103.901054
Czech Republic	118.369879	118.850264	121.58171	116.364225
Denmark	48.494944	56.404306	51.639933	48.659925
Estonia	16.747695	15.469899	19.253197	17.683925
Finland	54.918043	66.45099	64.497212	56.043465
France	371.89291	362.610974	353.75169	349.495513
Germany	786.664297	799.102652	766.721505	775.186804
Greece	95.156324	94.103838	97.902891	94.35162
Hungary	54.722182	54.161519	52.522404	51.753214
Iceland	2.23538	2.272645	2.319835	2.121787
Ireland	44.420119	45.456782	44.642464	44.243869
Italy	456.431826	449.184459	441.461104	428.854473
Latvia	7.58061	8.030694	8.36029	7.938214
Lithuania	12.443951	12.502004	12.684005	12.610744
Luxembourg	11.493299	11.30179	10.704137	10.640149
Netherlands	167.48966	163.262344	164.115298	164.822973
Norway	34.500489	35.46211	36.037798	35.305649
Poland	296.261105	308.078167	306.294687	301.597403
Portugal	61.385798	56.444866	54.63161	52.832438
Slovak Republic	37.262253	36.484264	35.705258	35.423774
Slovenia	15.443058	15.799301	15.75268	16.7983
Spain	333.710098	325.036584	337.863422	309.774422
Sweden	49.105656	46.627675	44.987525	42.956349
Switzerland	44.006757	43.629113	41.660479	43.113007
Turkey	215.892986	240.254878	266.198341	262.367012
United Kingdom	531.648669	532.89988	521.733018	507.897104
OECD Europe	4050.718786	4077.770874	4043.849838	3961.539977
Albania	3.825184	3.792392	3.775922	3.708694

2009	2010	2011	2012	2013	2014	2015
514.415405	528.618581	541.160841	539.740483	549.640805	555.469386	557.660685
64.212781	68.604765	75.31667	77.235782	81.86194	75.468877	81.092176
425.193594	440.460336	456.460321	459.456276	449.626506	434.204441	442.41719
5120.690227	5352.120423	5128.17802	4903.010212	5038.523665	5046.56463	4928.610664
6124.512007	6389.804105	6201.115852	5979.442753	6119.652916	6111.707334	6009.780715
391.081821	383.618673	382.107665	381.713911	375.785446	367.025776	373.846773
63.854184	68.437949	67.512452	73.751873	64.879456	62.476909	63.927754
1070.343089	1127.152038	1183.493699	1225.860468	1234.04535	1194.051926	1155.666505
502.089454	550.915653	573.760776	575.466327	574.551419	562.67858	582.047107
30.460749	30.347958	29.588375	31.224908	30.964596	31.237609	31.258942
2057.829297	2160.472271	2236.462967	2288.017487	2280.226267	2217.4708	2206.747081
62.922944	68.571165	67.012232	63.894994	64.646984	61.116222	62.22117
96.871149	103.890892	92.80816	92.315416	93.571738	87.359109	92.789797
109.643459	112.460232	109.318664	105.653832	101.384367	98.267535	99.42453
46.925448	47.254487	42.056027	36.89122	38.633898	34.440574	31.948409
14.694047	18.563998	17.630306	16.363747	18.77879	17.387483	15.147858
53.795592	62.000673	54.562684	48.904772	49.729813	45.706777	42.365643
336.074448	340.21809	322.273392	325.318234	325.277258	293.184242	299.640583
720.205407	758.802602	731.224666	744.674177	763.769203	723.177099	729.684098
90.15818	83.36947	82.117228	76.986345	68.845177	65.726678	64.543218
46.866409	47.145132	46.343688	42.748798	40.246668	40.059463	42.708351
2.07988	1.949182	1.868728	1.859894	2.031822	2.047533	2.057458
39.679776	39.516725	35.381343	35.911606	34.597873	34.074808	35.342128
383.717096	391.99233	384.107414	366.677218	337.575729	319.155267	329.662257
7.185957	8.087541	7.340252	6.99556	6.909808	6.723727	6.845608
11.40734	12.314715	11.525294	11.531329	10.868843	10.462848	10.550273
10.08492	10.664187	10.514577	10.311125	9.781443	9.288168	8.804662
160.072111	170.762343	158.412075	157.155685	156.790967	149.502726	157.858417
35.683365	37.29115	36.219049	35.89114	35.75981	35.559619	35.890983
291.471973	307.493273	303.187965	296.94125	292.406679	279.258971	282.70842
53.076554	47.561335	47.054931	45.670308	43.741204	42.835055	46.930899
32.608964	34.572279	32.854943	31.251081	31.7854	29.171089	29.444719
15.109682	15.446955	15.427293	14.8584	14.211939	12.756345	12.805132
276.086065	262.054512	264.874087	260.511883	235.161648	232.063953	247.067141
40.725659	46.062647	42.353652	39.246247	37.567152	37.29509	37.112379
41.825778	43.257966	39.234013	40.665937	41.665708	37.868645	37.323113
261.278593	267.846219	287.198851	298.432784	285.18345	307.171546	318.973757
460.083887	476.626011	439.178828	461.442481	447.002723	408.662693	394.115172
3700.334683	3815.776111	3682.080342	3669.105463	3587.926094	3420.323265	3473.966175
3.76623	3.930295	4.141866	3.484832	3.646202	4.123018	3.824801

2016	2017	Change from 2005 to 2017	% Change from 2005 to 2017
548.095275	547.798641	7	1
85.24552	86.08714	32	58
446.175879	445.991937	34	8
4838.476243	4761.301727	(942)	(17)
5917.992917	5841.179445	(869)	(13)
381.878629	384.583857	19	5
63.082005	63.766189	5	8
1146.887524	1132.4354	(34)	(3)
589.212169	600.034367	142	31
30.434542	32.241597	(1)	(4)
2211.494869	2213.06141	131	6
62.048731	64.872394	(10)	(13)
91.932287	90.368188	(17)	(16)
101.157395	101.682752	(17)	(14)
33.486945	31.26357	(17)	(36)
15.460878	15.972029	(1)	(5)
45.127234	42.598175	(12)	(22)
301.695852	306.123541	(66)	(18)
734.487052	718.794085	(68)	(9)
63.076623	63.21331	(32)	(34)
43.777954	45.783636	(9)	(16)
2.064863	2.173307	(0)	(3)
36.863114	35.720302	(9)	(20)
325.657168	321.481224	(135)	(30)
6.799011	6.679644	(1)	(12)
10.750005	10.811096	(2)	(13)
8.501982	8.631187	(3)	(25)
158.034178	155.574278	(12)	(7)
35.281342	34.760858	0	1
293.21141	305.841991	10	3
46.42253	50.757815	(11)	(17)
30.159706	32.212012	(5)	(14)
13.585628	13.410666	(2)	(13)
237.400337	253.423277	(80)	(24)
37.989269	37.643785	(11)	(23)
37.851822	37.135572	(7)	(16)
338.874454	378.63109	163	75
372.557789	358.731281	(173)	(33)
3484.255559	3524.291065	(526)	(13)
3.674183	4.342011	1	14

Armenia	4.129845	4.151024	4.797638	5.27332
Azerbaijan	29.018489	29.39629	26.695627	28.81145
Belarus	55.01416	57.239326	55.727348	58.444191
Bosnia and Herzegovina	15.857733	17.462209	18.415091	20.240004
Bulgaria	46.473483	47.622547	50.958573	48.500374
Croatia	19.917214	19.977214	21.222283	20.164387
Cyprus	7.047944	7.113808	7.4253	7.579383
Georgia	4.065656	4.525622	5.453393	4.666914
Gibraltar	0.405663	0.424375	0.421157	0.430445
Kazakhstan	156.902433	172.937357	187.204832	230.259087
Kosovo	6.639156	6.701349	7.030455	7.570421
Kyrgyzstan	4.8919	4.877132	5.963378	7.006248
Malta	2.621893	2.646157	2.711098	2.718652
Republic of Moldova	7.810491	7.517954	7.436466	7.360146
Montenegro	2.004798	2.179294	2.098407	2.693314
Republic of North Macedonia	8.917292	8.912976	9.339666	9.12527
Romania	92.632653	95.285763	92.38187	91.070886
Russian Federation	1481.897136	1537.702664	1533.725251	1553.838333
Serbia	50.320015	52.464943	51.238268	49.905475
Tajikistan	2.347227	2.54852	3.114771	2.948035
Turkmenistan	48.103296	49.211939	55.833112	56.460956
Ukraine	290.620184	298.505426	305.977479	295.034556
Uzbekistan	105.599618	111.358294	110.030283	115.109052
Former Soviet Union (if no detail) x	x	x	x	x
Former Yugoslavia (if no detail) x	x	x	x	x
Non-OECD Europe and Eurasia	2447.063463	2544.554575	2568.977668	2628.919593
Algeria	77.47413	80.759469	84.879694	88.128544
Angola	6.146691	8.253096	9.650967	11.817271
Benin	2.677863	3.245668	3.786198	3.835942
Botswana	4.278592	4.086871	4.319812	4.392729
Cameroon	2.935781	3.10607	4.118061	4.269435
Congo	0.843574	1.022379	1.096506	1.37194
Côte d'Ivoire	5.813001	5.627601	5.548482	6.36128
Dem. Rep. of Congo	1.281832	1.393429	1.543003	1.715975
Egypt	145.027708	152.133593	163.567698	170.863898
Eritrea	0.578183	0.502015	0.492457	0.425577
Ethiopia	4.482124	4.776189	5.503395	6.228882
Gabon	1.733485	1.80216	1.938413	2.015109
Ghana	6.306508	7.725022	8.355755	7.732564
Kenya	7.483192	8.445388	8.382223	8.822446
Libya	43.101459	41.977812	38.963802	42.184335
Mauritius	2.961755	3.304216	3.395196	3.466776
Morocco	39.215868	40.525447	41.349844	43.178424
Mozambique	1.514919	1.623487	1.973156	1.952469
Namibia	2.492652	2.507824	2.580865	2.925312
Niger	0.736144	0.729631	0.80367	0.842418
Nigeria	56.558056	51.355652	47.716495	52.945289

4.269475	4.048253	4.672815	5.438573	5.243728	5.220168	4.70213
24.521671	23.532476	26.449925	28.894746	29.462078	30.793666	30.806159
55.318366	59.498259	56.382399	57.595686	57.549168	56.801809	52.618265
20.204495	20.482682	23.400889	21.645003	21.510392	19.172421	19.306465
42.373446	44.362486	49.165656	44.415409	39.159236	41.539009	43.715357
19.064566	18.248777	17.950446	16.419845	15.901102	15.117108	15.512642
7.502392	7.260554	7.000736	6.515882	5.630061	5.776906	5.900866
5.292218	4.995027	5.953731	6.609908	6.68514	7.719799	8.383116
0.471038	0.474195	0.45858	0.467989	0.499159	0.536595	0.589619
202.716188	221.101402	234.81722	233.846139	249.15968	229.816281	245.762673
8.397258	8.695947	8.605458	8.117446	8.296504	7.392382	8.605689
6.521635	6.040358	7.21138	9.563712	8.750947	9.032191	9.896806
2.504597	2.580576	2.567454	2.709905	2.372212	2.354011	1.6489
7.298791	7.946552	7.918591	7.698491	6.705483	7.249277	7.57852
1.747481	2.584208	2.535667	2.331593	2.267307	2.218423	2.358285
8.502029	8.319696	9.148742	8.792818	7.8537	7.436958	7.133668
77.431117	74.725473	80.859371	78.578501	69.312297	68.466683	69.55857
1440.681104	1529.228168	1604.742898	1607.949744	1568.533162	1551.605133	1534.458233
45.955643	45.61019	49.775918	44.570331	45.373816	38.045	44.459955
2.309775	2.302905	2.41822	2.892174	3.007117	4.021592	4.211795
49.95901	56.919769	61.795624	64.094198	65.504807	67.016622	69.10529
249.69807	266.580685	279.61803	274.008242	265.198093	234.310862	187.590314
103.375513	100.562513	110.038279	113.435604	103.300972	104.046358	92.161645
x	x	x	x	x	x	x
x	x	x	x	x	x	x
2389.882108	2520.031446	2657.629895	2650.076771	2590.922363	2519.812272	2469.889763
94.441442	95.535489	102.789651	112.186153	115.656875	123.204974	130.426655
13.871999	15.151684	16.144331	16.449741	19.289788	20.914026	21.53232
4.193752	4.573129	4.438047	4.21419	4.448582	4.783984	5.261645
4.09028	3.271367	3.883977	4.985881	5.415702	6.986347	7.068888
4.809731	5.050631	4.854705	4.936586	5.349179	5.992238	5.944767
1.569329	1.833183	2.09355	2.228669	2.537397	2.640089	3.164794
5.926919	6.245044	6.042079	7.885024	8.458143	8.952662	9.543523
1.737353	1.869246	2.34466	2.271174	3.476123	4.656709	2.734926
174.449011	176.436297	182.670815	189.085708	189.195077	193.349392	199.544529
0.447342	0.47957	0.514275	0.545868	0.564828	0.577468	0.590108
6.337487	5.898599	6.816323	7.178843	8.411696	10.325544	10.059891
2.07918	2.659638	2.984984	3.126927	3.283267	3.251162	3.252522
9.244045	10.419649	10.851969	12.815716	13.695318	13.26183	14.088758
10.429718	11.209779	11.321457	10.354965	12.060053	12.898044	14.721841
45.339114	48.181967	34.415101	44.366352	48.299016	47.983357	42.725711
3.423313	3.662144	3.639261	3.734865	3.827598	3.959233	3.967535
43.15489	46.396882	50.751728	52.237979	51.518825	53.520673	55.371267
2.21395	2.377492	2.824377	2.622461	2.955268	4.699199	6.221087
2.983469	3.078895	3.133855	3.253369	3.460988	3.619834	3.858399
1.068423	1.358855	1.3798	1.866202	1.779983	1.969994	1.953955
44.125618	55.417965	60.185024	61.639257	80.886076	88.915396	82.588782

4.833071	5.165593	1	25
31.409359	30.805851	2	6
53.062826	54.070453	(1)	(2)
22.019403	22.327978	6	41
40.548756	42.819932	(4)	(8)
15.858564	16.193172	(4)	(19)
6.2692	6.367874	(1)	(10)
8.809005	8.7203	5	114
0.645692	0.7039	0	74
254.927792	255.767646	99	63
9.080385	8.16855	2	23
9.298993	8.909263	4	82
1.354078	1.516276	(1)	(42)
7.710688	7.526673	(0)	(4)
2.112994	2.206233	0	10
6.947674	7.440699	(1)	(17)
67.962637	70.78876	(22)	(24)
1510.557598	1536.878825	55	4
45.474363	46.129569	(4)	(8)
5.428489	5.843657	3	149
68.972285	68.998881	21	43
197.626378	171.300035	(119)	(41)
81.343275	81.156397	(24)	(23)
x	x	#VALUE!	#VALUE!
x	x	#VALUE!	#VALUE!
2455.927688	2464.148528	17	1
127.640064	130.493653	53	68
21.458342	18.021394	12	193
6.602646	6.763074	4	153
6.979639	7.717409	3	80
6.103656	6.152919	3	110
2.97836	2.847335	2	238
9.586785	10.234205	4	76
1.979013	2.201742	1	72
204.112697	209.219059	64	44
0.599637	0.632105	0	9
11.843085	13.059815	9	191
3.357483	3.367911	2	94
12.967698	13.779635	7	118
16.266163	16.264973	9	117
41.056051	41.52835	(2)	(4)
4.042202	4.182138	1	41
55.299726	58.14986	19	48
8.445417	7.624932	6	403
3.983156	4.03715	2	62
1.951763	2.048704	1	178
84.738062	85.988513	29	52

Senegal	4.626203	4.437371	4.981105	5.218785
South Africa	372.313634	374.190071	391.520354	421.60686
South Sudan ..	..	..	..	..
Sudan	9.927598	12.357718	13.29582	14.416562
United Rep. of Tanzania	5.118673	5.453922	5.275357	5.397551
Togo	0.963204	0.887183	0.892707	1.096276
Tunisia	19.47277	20.164077	20.978275	21.057747
Zambia	2.120692	1.958412	1.331986	1.507764
Zimbabwe	10.272774	9.557691	9.616183	7.448904
Other Africa	26.730255	28.22356	28.592173	32.371195
Africa	865.18932	882.133024	916.449652	975.598259
Bangladesh	31.960244	35.202812	37.310312	40.881798
Brunei Darussalam	4.823126	7.216328	6.844039	7.223355
Cambodia	2.639032	2.944559	3.571214	3.650335
DPR of Korea	75.340154	76.534134	63.274758	70.381463
India	1073.700993	1147.671261	1260.854573	1338.923555
Indonesia	317.824312	339.302458	355.435167	349.106115
Malaysia	155.842735	161.80455	178.056273	190.309585
Mongolia	10.984928	12.330981	12.909351	12.851063
Myanmar	10.477314	9.714564	10.116776	7.608118
Nepal	3.074201	2.500867	2.57814	2.882196
Pakistan	114.969678	124.417223	136.348318	130.404249
Philippines	71.501652	65.547401	69.021642	71.179449
Singapore	36.901353	37.171597	38.286019	38.426592
Sri Lanka	13.39291	11.780162	12.937259	12.123205
Chinese Taipei	253.971752	261.496385	265.401242	254.31363
Thailand	200.203804	201.675955	209.446113	215.179331
Viet Nam	79.230185	81.577544	90.003941	101.243758
Other Asia	15.580221	15.966218	15.493812	17.260303
Asia (excl. China)	2472.418594	2594.854999	2767.888949	2863.9481
People's Rep. of China	5407.51803	5961.808473	6473.211479	6669.111668
Hong Kong, China	41.332022	42.320555	44.032254	42.858175
China (incl. Hong Kong, China)	5448.850052	6004.129028	6517.243733	6711.969843
Argentina	149.47604	158.756607	165.612783	176.704997
Bolivia	8.975809	9.785122	10.713718	11.669457
Brazil	311.623799	315.152972	330.759555	349.288692
Colombia	53.5853	53.658699	54.768847	55.630794
Costa Rica	5.463059	6.000466	6.700225	6.706057
Cuba	25.051431	25.442477	26.31291	25.468898
Curaçao	5.977663	5.883453	6.392661	6.327339
Dominican Republic	17.522139	18.786072	18.937533	18.866365
Ecuador	23.926725	25.42396	26.681382	26.658121
El Salvador	6.252815	6.523559	6.92343	6.143442
Guatemala	10.621597	10.630962	11.475939	10.252402
Haiti	1.980992	2.025273	2.3168	2.3168
Honduras	7.192737	6.430913	8.150109	7.919782
Jamaica	10.281648	11.745439	11.752897	9.539431

5.374331	5.460983	5.787961	5.669916	6.003101	6.685095	7.516857
398.622983	418.800964	403.433982	420.993287	430.755113	442.494723	418.258797
..	..	..	1.437697	1.47545	1.554697	2.001328
14.7375	15.122702	14.206025	13.86677	13.112352	13.983064	16.354488
5.181092	6.216798	7.338101	8.88039	9.893453	9.631775	10.472963
2.275963	2.076229	1.887314	1.624766	1.716469	1.811379	1.906291
21.139471	23.293569	22.244906	23.474414	23.645011	25.036033	25.614897
1.572984	1.636973	1.983143	2.718055	2.852717	3.189165	3.475653
7.480856	9.464714	11.141014	11.519006	11.817134	11.552864	11.822362
32.585069	34.728455	30.886967	32.186327	32.905807	33.175111	34.639614
964.906614	1017.908892	1012.989382	1070.356558	1118.746389	1165.576061	1156.685153
44.050973	49.899502	53.297254	57.318837	59.835786	63.046901	70.895346
7.433705	6.861946	7.013411	6.969681	6.853818	6.69714	5.977692
4.369845	4.62182	4.845225	5.05419	5.171265	6.098246	8.011977
52.918936	49.292798	34.658929	36.052416	25.106143	28.676326	22.545503
1502.255543	1583.431201	1667.764769	1803.763778	1854.784915	2018.244235	2026.704698
360.626745	357.646151	390.317956	415.213004	417.982361	456.887111	459.139082
169.809685	189.860901	191.49175	192.982776	209.077335	220.552885	220.437513
13.538675	14.139533	15.572443	16.984529	18.287737	17.939589	17.118652
7.213886	7.906445	8.102464	11.447014	13.168292	16.537996	18.671324
3.427183	4.121846	4.404946	4.971779	4.944811	5.94916	5.694237
133.727865	129.168625	130.670045	132.270774	133.081933	141.296463	150.688547
71.467864	77.128398	77.755475	80.408283	89.649782	95.71423	103.891197
38.831762	42.413616	44.763911	43.692284	43.917804	44.459324	45.49601
11.566172	12.40876	14.673145	16.06775	13.740667	16.880141	19.489878
242.108301	256.357747	255.458233	247.433756	248.654017	250.611384	250.739426
207.212103	223.418643	221.780469	238.971877	247.458873	244.069637	248.039678
111.993506	126.659264	125.997063	125.185992	130.490981	144.37974	182.588799
19.1974	22.131547	29.573142	28.010862	27.759663	28.934142	38.446083
3001.750149	3157.468743	3278.14063	3462.799582	3549.966183	3806.97465	3894.575642
7131.511865	7832.716615	8570.926184	8819.604803	9190.501197	9127.211491	9101.375985
46.247113	41.997165	45.648905	45.099344	46.051431	47.913659	43.91731
7177.758978	7874.71378	8616.575089	8864.704147	9236.552628	9175.12515	9145.293295
168.915982	173.768538	181.236086	185.782647	181.004269	184.764378	190.384899
12.324391	13.637623	14.853897	16.646845	16.81135	18.204941	18.099998
325.497578	372.003618	391.086606	424.086627	453.474508	477.793116	453.633529
59.043569	60.224103	65.410075	65.23079	75.092369	77.827713	77.609792
6.388951	6.622054	6.910338	6.927642	7.236279	7.275832	6.94023
26.296927	29.508746	27.812486	28.089417	26.648096	26.207599	26.84168
5.930754	4.378255	5.496684	4.461795	4.304512	4.623429	4.691214
18.105931	19.021523	19.309773	20.035774	19.589982	19.456968	21.519849
29.358456	32.749762	32.855193	34.088693	35.754795	38.543228	37.357272
6.035602	5.826204	6.013437	6.013939	5.727543	5.852064	6.389271
11.231544	10.272703	10.567827	10.962022	11.834616	12.705648	15.164376
2.23913	2.095144	2.140475	2.081918	2.165803	2.762665	3.208933
7.557156	7.535444	8.245027	8.563247	8.779541	8.48056	9.558552
7.393225	6.93089	7.207868	6.88073	7.322934	7.129118	6.992686

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9.676776	10.13179	5	98
1.997993	2.082434	1	116
25.212344	26.156972	7	34
3.731899	6.007872	4	183
10.3689	9.714938	(1)	(5)
35.063324	36.327491	10	36
1165.548874	1185.057223	320	37
72.943639	78.27017	46	145
6.411543	6.710178	2	39
9.287497	10.762923	8	308
25.426726	19.579698	(56)	(74)
2057.682254	2161.567072	1,088	101
454.267119	496.406275	179	56
216.236083	211.046967	55	35
17.981117	19.276	8	75
20.899074	30.404919	20	190
8.503721	10.113953	7	229
164.184363	183.447068	68	60
114.751784	126.487694	55	77
46.065234	47.407144	11	28
20.898562	23.103271	10	73
257.82498	268.877108	15	6
244.124879	244.254785	44	22
193.611788	191.243601	112	141
45.678803	50.203967	35	222
3976.779166	4179.162793	1,707	69
9064.428642	9257.9339	3,850	71
44.728626	44.034675	3	7
9109.157268	9301.968575	3,853	71
190.51204	183.375203	34	23
20.126218	21.89918	13	144
418.523728	427.632717	116	37
87.720859	75.291911	22	41
7.488019	7.584411	2	39
27.791025	26.215665	1	5
4.150776	3.748132	(2)	(37)
22.534306	21.43038	4	22
35.393138	34.299317	10	43
6.372143	5.735668	(1)	(8)
16.261135	15.703161	5	48
3.250079	3.293125	1	66
9.132171	9.42674	2	31
7.524926	6.971666	(3)	(32)

Nicaragua	4.032083	4.245508	4.363378	4.190988
Panama	6.776118	7.159286	7.056916	6.550758
Paraguay	3.472665	3.604743	3.736907	3.951832
Peru	28.632888	28.03185	30.924403	35.209581
Suriname	1.652793	1.494424	1.375903	1.420054
Trinidad and Tobago	17.175823	19.152553	21.352888	21.170093
Uruguay	5.151871	6.082907	5.571623	7.46823
Venezuela	137.701548	133.589038	129.850593	159.40226
Other Non-OECD Americas	14.719585	14.688888	15.5708	15.547434
Non-OECD Americas	857.247128	874.295171	907.3022	968.403807
Bahrain	20.564912	22.35459	22.866845	24.615976
Islamic Rep. of Iran	417.780642	449.259945	480.064819	487.344413
Iraq	73.175677	68.981641	62.715441	72.787954
Jordan	17.922443	18.310115	19.215726	18.505856
Kuwait	64.750023	67.309013	67.504013	71.594639
Lebanon	14.523599	13.725843	12.012641	15.848255
Oman	25.181794	33.669938	37.090219	36.118058
Qatar	33.211677	38.463634	43.99655	46.921888
Saudi Arabia	298.036626	316.647414	333.178922	364.251378
Syrian Arab Republic	53.466192	56.694149	59.993537	61.87622
United Arab Emirates	111.145283	115.048814	124.186843	146.520432
Yemen	18.836222	18.893315	20.003286	21.254518
Middle East	1148.59509	1219.358411	1282.828842	1367.639587
IEA/Accession/Association	20506.48094	21086.79947	21928.09531	21931.31247
European Union - 28	3922.776361	3928.797617	3872.332509	3788.666204
G7	9557.103771	9422.101586	9518.638646	9238.164989
G8	11039.00091	10959.80425	11052.3639	10792.00332
G20	22238.43038	22903.31999	23753.68322	23801.14896
Africa	865.18932	882.133024	916.449652	975.598259
Americas	7567.718567	7490.421168	7652.356126	7523.863624
Asia	11320.54324	12105.5051	12959.08671	13330.11647
Europe	5919.782855	5995.950585	5940.110831	5869.978113
Oceania	409.808526	415.228656	423.305201	427.361541

2005

2006

2007

2008

China	5448.850052	6004.129028	6517.243733	6711.969843
United States	5703.220175	5602.449666	5686.716019	5512.512876
European Union	3922.776361	3928.797617	3872.332509	3788.666204

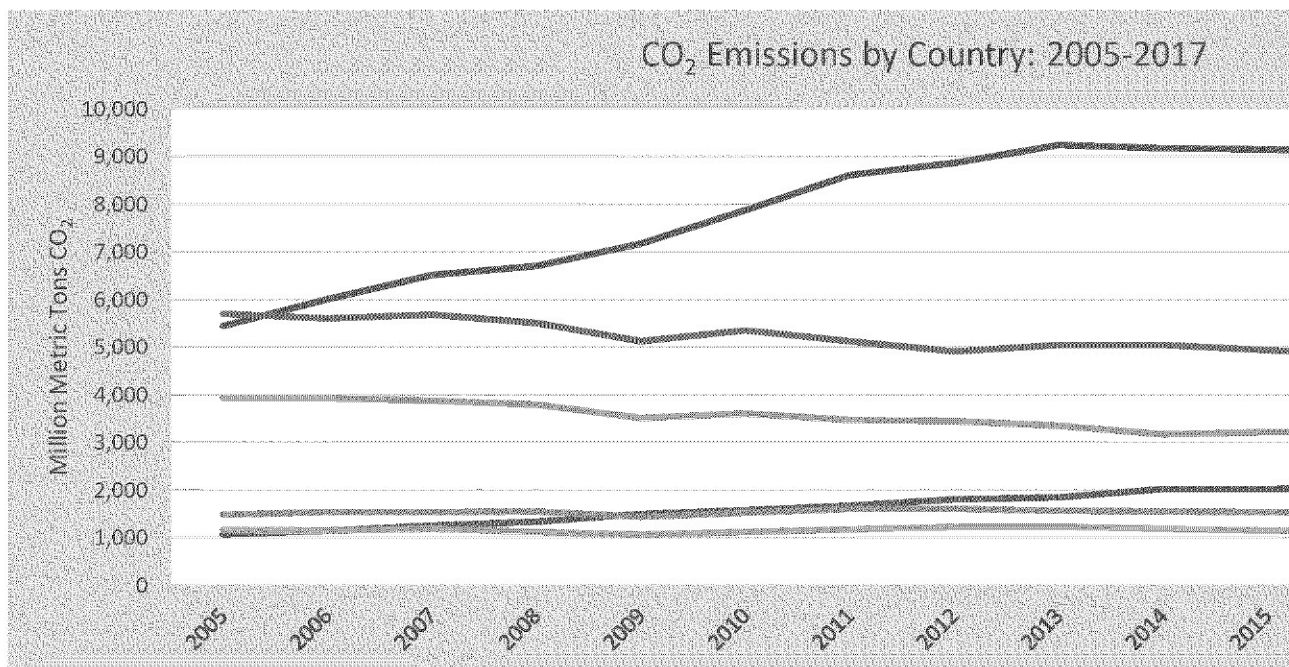
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8.034771	8.878513	9.527086	9.783195	9.899352	10.636012	10.102101
4.100728	4.791954	5.016166	5.189054	5.082017	5.334488	5.849183
37.747353	41.544007	44.92097	44.070715	45.182415	48.111009	49.724806
1.418218	1.695676	1.787672	2.002733	1.965031	1.992602	2.063356
19.832649	21.849145	21.79456	21.623042	22.248269	23.063719	21.280034
7.452967	5.959638	7.223777	8.187316	7.114949	6.267575	6.374932
160.509339	171.468892	145.718946	164.035587	152.193276	151.608047	140.538724
15.970803	16.655304	11.965219	14.814208	15.791347	15.280428	14.928571
945.552718	1021.694886	1031.568699	1093.994274	1119.450591	1158.437662	1134.308935
24.478322	25.551566	25.5737	26.100963	28.292683	29.695139	30.072802
504.28744	498.60787	507.801752	512.345211	535.980432	556.684117	553.300897
92.306772	103.576749	110.423394	126.55095	135.718179	140.885462	130.762392
19.284146	18.801144	19.815357	22.670995	22.343731	24.000633	23.785053
78.438724	77.004456	78.273888	77.43431	86.090085	82.22322	91.638915
19.360746	18.2933	18.597083	21.08113	20.705495	22.538012	24.61915
38.513827	42.36774	48.765169	54.341128	56.491107	59.642819	63.636288
48.040842	55.503424	62.494971	69.561812	71.288579	76.627172	77.645489
379.467718	419.163541	434.637466	463.416498	471.131152	506.685656	531.554326
57.02075	57.270529	53.7153	43.737771	28.735328	25.441199	23.872123
148.543136	154.590032	158.154333	168.504575	176.752109	176.420079	186.575572
23.468288	22.388934	19.804942	18.118959	24.648492	24.150257	11.662059
1433.210711	1493.119285	1538.057355	1603.864302	1658.177372	1724.993765	1749.125066
21790.75241	23136.64384	23756.81075	24046.13229	24579.29701	24519.71435	24402.32679
3508.343185	3612.60946	3475.103364	3440.89525	3355.660212	3170.929639	3216.057199
8605.529559	8975.530075	8729.61686	8566.723273	8695.834733	8540.265243	8395.039964
10046.21066	10504.75824	10334.35976	10174.67302	10264.3679	10091.87038	9929.498197
23547.262	24992.09734	25717.25839	26010.48544	26477.23496	26451.69543	26334.70674
964.906614	1017.908892	1012.989382	1070.356558	1118.746389	1165.576061	1156.685153
7070.064725	7411.498991	7232.684551	7073.437027	7239.103507	7270.144996	7144.08965
13907.94755	14956.40637	15993.5778	16565.51401	17068.35214	17284.16294	17364.76751
5422.470321	5641.198081	5592.153456	5549.458514	5416.920477	5169.520408	5153.951701
430.348052	423.977184	423.215017	423.59523	418.498295	411.016553	420.877817

2009	2010	2011	2012	2013	2014	2015
7177.758978	7874.71378	8616.575089	8864.704147	9236.552628	9175.12515	9145.293295
5120.690227	5352.120423	5128.17802	4903.010212	5038.523665	5046.56463	4928.610664
3508.343185	3612.60946	3475.103364	3440.89525	3355.660212	3170.929639	3216.057199

5.112604	5.106281	1	27
10.191378	9.612198	3	42
6.803062	7.654689	4	120
52.186698	49.693643	21	74
1.90988	1.928134	0	17
17.457045	18.007573	1	5
6.325631	5.872957	1	14
127.366139	113.717543	(24)	(17)
15.486952	9.816308	(5)	(33)
1099.619952	1064.016602	207	24
29.638922	29.813834	9	45
554.410488	567.123294	149	36
140.33713	139.877659	67	91
23.834961	25.55014	8	43
93.178766	89.420615	25	38
25.46051	26.931044	12	85
63.137552	65.49856	40	160
79.084102	80.116551	47	141
526.887374	532.181611	234	79
23.086043	23.031045	(30)	(57)
192.070738	196.510174	85	77
9.389446	8.919998	(10)	(53)
1760.516032	1784.974525	636	55
24276.51153	24596.72516	4,090	20
3202.176313	3209.276252	(714)	(18)
8267.856903	8146.665899	(1,410)	(15)
9778.414501	9683.544724	(1,355)	(12)
26178.02198	26521.74594	4,283	19
1165.548874	1185.057223	320	37
7017.612869	6905.196047	(663)	(9)
17439.49705	17896.07701	6,576	58
5130.017324	5138.073041	(782)	(13)
428.616204	433.456848	24	6

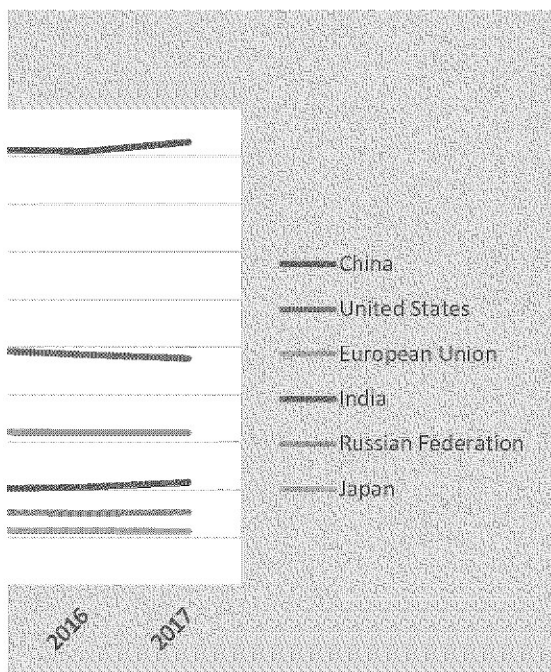
2016	2017	Change from 2005 to 2017	% Change from 2005 to 2017
9109.157268	9301.968575	3,853	71
4838.476243	4761.301727	(942)	(17)
3202.176313	3209.276252	(714)	(18)

India	1073.700993	1147.671261	1260.854573	1338.923555
Russian Federation	1481.897136	1537.702664	1533.725251	1553.838333
Japan	1166.814399	1144.715317	1186.361509	1122.344144
Germany	786.664297	799.102652	766.721505	775.186804
Canada	540.431495	531.138638	561.893801	541.874075
Indonesia	317.824312	339.302458	355.435167	349.106115
Brazil	311.623799	315.152972	330.759555	349.288692
South Africa	372.313634	374.190071	391.520354	421.60686
Australia	365.515118	370.839121	381.067827	384.311003
Turkey	215.892986	240.254878	266.198341	262.367012
United Kingdom	531.648669	532.89988	521.733018	507.897104
Italy	456.431826	449.184459	441.461104	428.854473
France	371.89291	362.610974	353.75169	349.495513
Chile	54.434634	55.677498	63.075016	66.533464



	2005	2006	2007	2008
China	0	10	20	23
United States	0	(2)	(0)	(3)
European Union	0	0	(1)	(3)
India	0	7	17	25
Russian Federation	0	4	3	5
Japan	0	(2)	2	(4)
Germany	0	2	(3)	(1)
Canada	0	(2)	4	0
Indonesia	0	7	12	10

1502.255543	1583.431201	1667.764769	1803.763778	1854.784915	2018.244235	2026.704698
1440.681104	1529.228168	1604.742898	1607.949744	1568.533162	1551.605133	1534.458233
1070.343089	1127.152038	1183.493699	1225.860468	1234.04535	1194.051926	1155.666505
720.205407	758.802602	731.224666	744.674177	763.769203	723.177099	729.684098
514.415405	528.618581	541.160841	539.740483	549.640805	555.469386	557.660685
360.626745	357.646151	390.317956	415.213004	417.982361	456.887111	459.139082
325.497578	372.003618	391.086606	424.086627	453.474508	477.793116	453.633529
398.622983	418.800964	403.433982	420.993287	430.755113	442.494723	418.258797
391.081821	383.618673	382.107665	381.713911	375.785446	367.025776	373.846773
261.278593	267.846219	287.198851	298.432784	285.18345	307.171546	318.973757
460.083887	476.626011	439.178828	461.442481	447.002723	408.662693	394.115172
383.717096	391.99233	384.107414	366.677218	337.575729	319.155267	329.662257
336.074448	340.21809	322.273392	325.318234	325.277258	293.184242	299.640583
64.212781	68.604765	75.31667	77.235782	81.86194	75.468877	81.092176

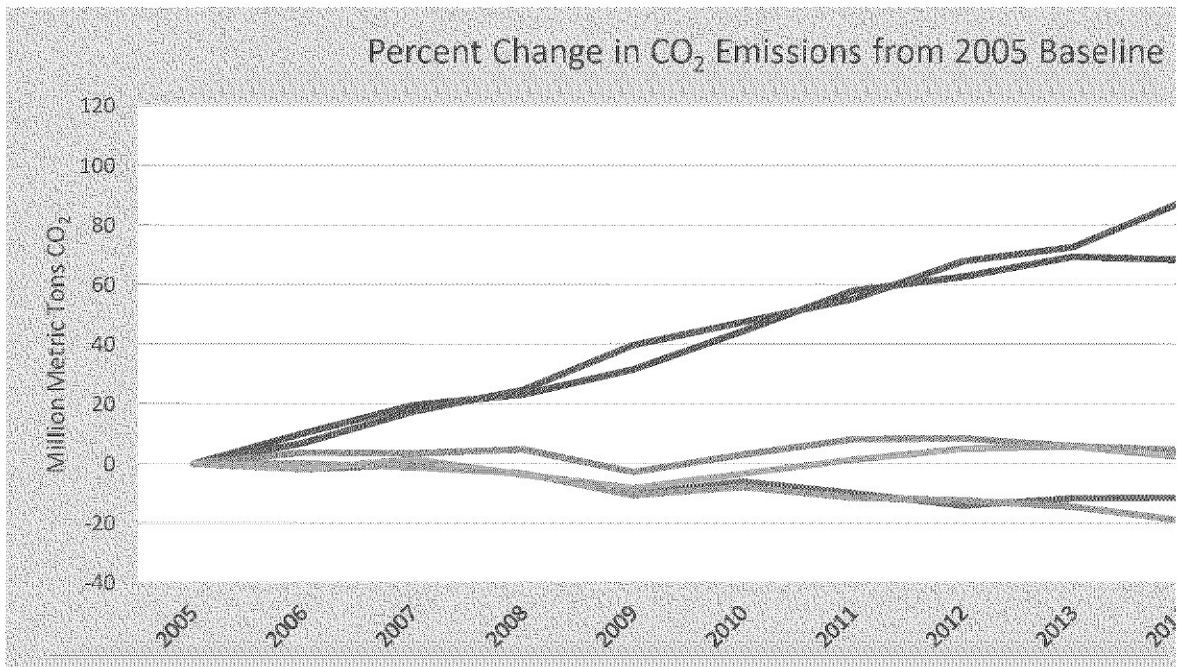


2009	2010	2011	2012	2013	2014	2015
32	45	58	63	70	68	68
(10)	(6)	(10)	(14)	(12)	(12)	(14)
(11)	(8)	(11)	(12)	(14)	(19)	(18)
40	47	55	68	73	88	89
(3)	3	8	9	6	5	4
(8)	(3)	1	5	6	2	(1)
(8)	(4)	(7)	(5)	(3)	(8)	(7)
(5)	(2)	0	(0)	2	3	3
13	13	23	31	32	44	44

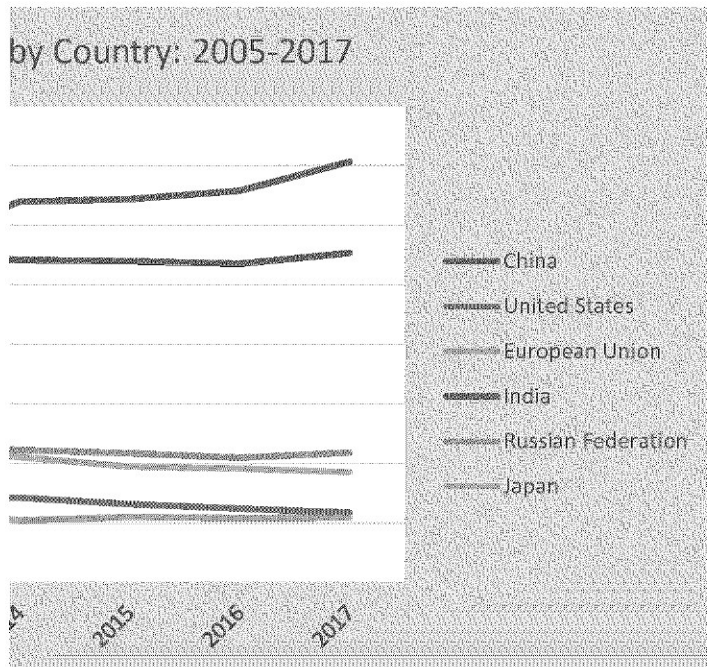
2057.682254	2161.567072	1,088	101
1510.557598	1536.878825	55	4
1146.887524	1132.4354	(34)	(3)
734.487052	718.794085	(68)	(9)
548.095275	547.798641	7	1
454.267119	496.406275	179	56
418.523728	427.632717	116	37
418.658117	421.682392	49	13
381.878629	384.583857	19	5
338.874454	378.63109	163	75
372.557789	358.731281	(173)	(33)
325.657168	321.481224	(135)	(30)
301.695852	306.123541	(66)	(18)
85.24552	86.08714	32	58

2016	2017
67	71
(15)	(17)
(18)	(18)
92	101
2	4
(2)	(3)
(7)	(9)
1	1
43	56

Brazil	0	1	6	12
South Africa	0	1	5	13
Australia	0	1	4	5
Turkey	0	11	23	22
United Kingdom	0	0	(2)	(4)
Italy	0	(2)	(3)	(6)
France	0	(2)	(5)	(6)



4	19	25	36	46	53	46
7	12	8	13	16	19	12
7	5	5	4	3	0	2
21	24	33	38	32	42	48
(13)	(10)	(17)	(13)	(16)	(23)	(26)
(16)	(14)	(16)	(20)	(26)	(30)	(28)
(10)	(9)	(13)	(13)	(13)	(21)	(19)



34	37
12	13
4	5
57	75
(30)	(33)
(29)	(30)
(19)	(18)

https://di.unfccc.int/time_series

Time Series - GHG total with LULUCF, in kt CO₂ equivalent

Party

Australia

Austria

Belarus

Belgium

Bulgaria

Canada

Croatia

Cyprus

Czechia

Denmark

Estonia

European Union (Convention)

European Union (KP)

Finland

France

Germany

Greece

Hungary

Iceland

Ireland

Italy

Japan

Kazakhstan

Latvia

Liechtenstein

Lithuania

Luxembourg

Malta

Monaco

Netherlands

New Zealand

Norway

Poland

Portugal

Romania

Russian Federation

Slovakia

Slovenia

Spain

1990	1991	1992	1993	1994	1995	1996	1997	1998
604,904	582,970	521,964	503,922	495,049	482,594	489,597	500,512	502,547
66,682	65,659	64,088	63,975	64,377	66,441	72,316	63,330	64,495
118,169	106,460	98,577	89,269	63,864	54,771	57,671	63,211	61,057
143,273	146,483	146,266	145,229	150,119	152,035	155,725	147,423	152,051
89,632	71,723	66,345	66,165	62,645	64,109	61,929	58,982	55,126
533,943	518,597	543,730	552,237	571,739	601,824	614,645	627,937	628,349
25,204	17,172	15,137	15,031	13,831	13,874	14,841	16,590	17,220
5,418	5,936	6,363	6,629	6,899	6,822	7,162	7,282	7,685
192,167	170,758	163,420	156,153	150,990	149,722	152,595	148,644	142,397
75,454	85,609	80,565	81,535	84,874	81,951	94,533	85,513	81,517
38,942	35,915	26,430	19,474	20,691	18,563	19,194	18,557	16,261
5,404,553	5,286,353	5,141,193	5,044,788	5,008,943	5,038,310	5,112,425	5,026,569	4,971,127
5,420,331	5,301,926	5,156,731	5,060,412	5,024,484	5,054,035	5,128,327	5,042,783	4,987,711
56,361	41,719	46,385	48,505	60,799	57,740	56,318	58,973	57,029
529,213	556,758	547,448	522,989	519,052	525,203	536,168	528,553	540,447
1,219,681	1,175,120	1,124,424	1,115,576	1,093,289	1,089,980	1,107,953	1,071,838	1,046,193
100,993	100,867	102,034	101,164	104,218	106,284	110,007	115,267	121,054
91,137	85,099	74,427	72,906	70,975	69,848	75,872	74,053	72,322
13,020	12,799	12,699	12,782	12,680	12,799	12,844	13,013	13,178
60,185	60,648	60,279	60,303	62,109	64,091	66,121	66,656	69,143
514,462	501,544	500,226	508,267	489,450	510,500	502,769	518,745	532,964
1,207,528	1,213,323	1,222,944	1,212,446	1,277,089	1,297,226	1,305,215	1,295,146	1,245,162
371,157	354,864	323,406	281,113	230,154	210,849	189,886	182,104	175,618
16,431	14,124	9,012	5,635	797	518	293	1,435	1,828
236	227	239	242	249	239	233	257	260
43,180	45,144	26,219	19,146	18,226	18,463	24,726	23,198	16,791
12,881	13,234	12,612	12,666	12,046	9,563	9,582	8,844	8,089
2,106	2,285	2,487	2,507	2,680	2,679	2,641	2,695	2,707
102	103	108	107	108	105	109	107	106
227,285	235,025	235,720	236,543	237,441	237,440	248,449	240,161	240,707
34,506	32,925	34,272	33,896	36,142	38,671	41,963	44,300	41,953
41,242	36,173	33,556	36,516	36,241	37,454	37,669	37,746	34,802
447,159	442,313	450,746	444,656	438,340	425,063	420,067	411,385	377,923
60,247	61,887	61,855	59,339	59,444	64,273	58,579	60,965	67,522
229,151	186,087	171,138	160,986	159,862	167,347	170,735	166,806	145,461
3,113,394	2,972,734	2,464,024	2,317,234	1,967,985	1,834,118	1,712,685	1,519,193	1,401,605
63,665	53,558	47,573	44,259	42,415	43,444	43,466	43,461	41,886
14,177	14,357	14,470	14,692	14,912	15,516	15,407	15,761	15,380
252,617	261,116	271,617	261,068	279,859	294,036	285,060	299,895	309,391

1999	2000	2001	2002	2003	2004	2005	2006	2007
516,558	536,154	564,812	562,039	572,494	581,962	610,588	611,488	627,028
60,589	63,996	65,059	71,849	86,919	82,195	81,907	84,948	81,976
50,727	47,998	49,163	51,027	56,937	60,082	59,139	59,819	58,675
146,499	147,955	146,490	145,872	146,285	147,676	143,747	141,140	137,650
48,017	47,379	51,026	47,958	52,299	51,442	51,926	54,484	58,617
651,817	688,682	661,778	680,426	691,103	716,268	709,083	691,810	711,911
17,629	18,894	19,179	19,942	22,222	22,060	22,245	22,862	25,027
7,776	8,463	8,148	8,223	8,598	8,804	8,967	9,102	9,685
132,410	141,446	140,869	137,646	142,412	143,104	140,457	143,772	147,773
79,403	74,968	77,293	77,787	82,488	76,086	71,541	79,639	72,548
14,768	13,968	16,097	14,799	16,334	16,535	16,272	15,309	18,666
4,853,067	4,871,910	4,894,945	4,877,911	4,981,669	4,948,051	4,920,393	4,897,593	4,876,524
4,869,747	4,888,554	4,911,278	4,894,396	4,997,996	4,964,531	4,936,916	4,914,888	4,894,344
54,154	51,245	54,726	56,105	63,208	58,353	45,385	50,626	56,948
529,271	539,912	532,836	518,176	518,495	514,209	515,124	500,113	489,331
1,011,427	1,007,227	1,021,695	1,034,683	1,029,325	1,009,762	981,284	988,194	962,075
120,445	124,405	124,987	124,624	128,627	129,353	132,998	129,090	133,533
74,995	72,801	73,254	72,231	72,759	72,638	70,008	71,039	68,943
13,412	13,434	13,344	13,438	13,410	13,517	13,384	14,039	14,372
70,248	74,138	76,232	74,431	75,043	72,865	75,157	74,835	73,053
529,003	537,877	537,054	531,875	554,093	552,558	552,223	540,811	554,657
1,268,434	1,286,939	1,260,968	1,283,300	1,279,069	1,275,230	1,287,617	1,271,481	1,312,463
150,554	187,540	154,916	180,179	211,004	218,198	232,943	261,075	269,699
4,644	1,736	1,516	3,258	3,833	7,491	8,203	8,031	8,139
256	273	249	256	270	273	273	282	262
14,843	11,042	13,866	15,260	15,822	17,354	19,238	21,263	21,519
8,451	9,007	9,483	10,258	10,736	12,134	12,424	12,338	11,838
2,757	2,771	2,678	2,681	2,896	2,831	2,911	2,965	3,068
108	109	106	107	104	100	99	92	95
227,303	225,376	226,080	223,904	224,625	225,764	219,969	214,834	213,275
42,105	45,115	48,072	50,846	51,904	51,628	54,465	56,630	55,964
33,268	30,423	29,801	28,001	27,211	28,370	30,224	28,188	30,099
370,181	362,576	365,951	346,351	357,510	351,244	356,817	378,075	384,918
74,308	76,404	73,070	77,466	82,882	76,173	87,130	72,608	66,441
127,027	122,214	124,346	129,110	133,623	132,670	130,446	131,623	133,440
1,412,979	1,388,351	1,372,625	1,329,167	1,347,403	1,404,964	1,430,042	1,498,152	1,482,813
41,295	39,370	42,426	40,531	41,235	41,985	45,510	42,533	41,176
14,701	14,837	14,696	14,746	12,762	12,907	13,173	13,376	13,185
333,702	348,005	344,654	364,486	372,300	387,978	402,837	393,730	405,641

2008	2009	2010	2011	2012	2013	2014	2015	2016
615,682	610,620	585,955	567,660	558,726	537,737	533,056	531,636	530,431
82,554	75,796	78,890	76,369	74,344	75,835	71,956	74,346	75,217
62,850	53,018	53,639	55,801	62,243	60,242	64,480	62,550	69,680
137,773	125,193	132,591	122,039	119,122	118,982	113,222	116,826	115,498
56,345	47,979	50,722	59,363	53,979	48,138	50,493	53,789	50,810
685,960	632,333	660,211	670,561	675,507	689,518	691,262	696,854	682,316
23,643	21,344	20,968	21,769	20,269	18,153	17,314	18,813	18,841
9,529	9,247	8,985	8,552	8,032	7,280	7,657	7,748	8,835
139,781	130,308	134,195	130,902	127,007	122,716	120,838	122,696	124,599
64,302	65,831	63,162	56,327	53,600	56,416	51,937	52,887	55,801
16,664	13,513	19,069	18,743	17,547	20,288	19,316	15,745	16,920
4,725,197	4,360,301	4,468,688	4,323,426	4,261,818	4,162,144	4,003,810	4,028,204	4,017,554
4,743,261	4,377,897	4,486,100	4,340,570	4,279,010	4,179,353	4,021,040	4,045,422	4,034,531
50,114	34,055	53,478	45,543	37,634	43,890	36,968	35,056	39,518
481,712	465,835	477,846	456,809	454,349	450,727	428,959	430,894	434,365
956,881	890,025	926,173	904,573	910,136	927,963	888,305	892,815	897,140
128,761	121,498	115,393	112,323	109,060	100,964	98,987	91,611	88,224
65,509	60,962	60,937	59,720	55,269	53,421	52,552	55,409	56,837
14,777	14,453	14,326	14,033	14,043	14,022	14,035	14,090	13,997
72,042	65,895	66,427	61,445	61,788	62,133	61,064	63,945	65,037
522,827	468,948	471,099	463,377	450,914	405,756	388,780	394,436	395,561
1,250,694	1,181,607	1,232,185	1,283,929	1,323,734	1,341,897	1,295,541	1,261,893	1,251,231
273,035	270,982	299,503	289,868	296,304	301,380	324,030	333,180	337,778
7,208	9,175	12,357	11,496	9,264	9,942	14,213	12,953	10,962
284	266	250	240	250	249	217	209	197
19,973	14,482	12,025	12,771	13,244	12,461	13,747	16,599	14,478
11,707	11,185	12,092	11,842	11,469	10,739	10,371	9,933	9,600
3,076	2,881	2,912	3,000	3,190	2,863	2,878	2,191	1,899
93	88	88	86	89	90	84	89	88
212,523	207,029	218,932	204,827	200,894	200,694	192,912	201,206	200,963
48,857	48,100	47,805	52,113	55,465	57,443	55,371	55,877	54,305
27,924	22,830	29,009	26,688	29,607	28,800	30,055	31,237	29,829
378,461	362,226	381,648	374,300	367,329	361,703	357,617	359,888	373,079
62,529	59,538	57,890	56,370	56,985	55,782	54,050	59,270	60,542
129,483	109,560	103,187	109,753	105,094	94,987	93,992	94,533	91,167
1,452,560	1,268,592	1,330,618	1,441,645	1,478,639	1,434,326	1,466,044	1,492,639	1,480,903
42,676	38,615	40,219	39,172	35,695	34,731	34,660	35,166	35,576
15,065	13,150	13,232	13,343	12,855	12,046	11,481	12,905	15,278
373,746	336,953	320,257	319,929	315,212	289,025	289,664	298,872	288,154

Last Inventory Year (2017)	Change from 2005 to 2017	% Change from 2005 to 2017
534,695	(75,892)	(12)
77,355	(4,552)	(6)
80,659	21,520	36
114,280	(29,467)	(20)
53,335	1,410	3
692,027	(17,056)	(2)
20,253	(1,992)	(9)
8,429	(538)	(6)
126,540	(13,917)	(10)
52,197	(19,344)	(27)
19,087	2,816	17
4,065,089	(855,304)	(17)
4,082,225	(854,691)	(17)
34,956	(10,429)	(23)
439,420	(75,704)	(15)
891,426	(89,858)	(9)
92,212	(40,787)	(31)
58,349	(11,660)	(17)
14,087	703	5
66,741	(8,416)	(11)
409,329	(142,894)	(26)
1,232,173	(55,445)	(4)
359,095	126,152	54
9,599	1,396	17
204	(69)	(25)
15,410	(3,829)	(20)
9,892	(2,531)	(20)
2,155	(756)	(26)
87	(12)	(12)
198,860	(21,109)	(10)
56,895	2,430	4
27,722	(2,503)	(8)
379,935	23,118	6
77,777	(9,353)	(11)
92,116	(38,330)	(29)
1,577,767	147,725	10
36,853	(8,657)	(19)
15,929	2,756	21
301,903	(100,934)	(25)

Sweden
Switzerland
Turkey
Ukraine
United Kingdom of Great Britain and Northern Ireland
United States of America

Source: UNFCCC GHG Data Interface

Note 1: The reporting and review requirements for GHG inventories are different for Annex I and non-Annex I Parties. Th

Note 2: Base year data in the data interface relate to the base year under the Climate Change Convention (UNFCCC). The

Note 3: – means "No data available"

Note 4: Data displayed on the data interface are "as received" from Parties. The publication of Party submissions on this \
Report produced on Monday, 20 April 2020 23:52:29 CEST

36,908	37,788	37,236	42,423	40,843	42,163	38,302	36,203	34,630
50,767	48,827	49,857	47,956	48,134	48,354	46,338	47,379	50,206
163,437	169,851	175,945	184,088	176,674	190,185	209,509	216,913	217,661
879,311	788,788	736,853	653,680	542,862	505,076	463,560	451,272	427,851
798,203	806,810	785,154	765,434	756,294	749,561	770,729	744,714	742,648
5,563,986	5,498,537	5,631,391	5,758,180	5,822,571	5,956,969	6,120,838	6,200,934	6,266,860

e definition format of data for emissions/removals from the forestry sector is different for Annex I and non-Annex I. The base year under the Convention is defined slightly different than the base year under the Kyoto Protocol. An

website does not imply the expression of any opinion whatsoever on the part of the UNFCCC or the Secretariat

34,268	31,888	27,077	30,240	34,134	35,898	35,137	30,764	26,648
49,462	57,921	52,851	49,482	49,675	50,695	52,223	52,732	51,958
213,716	237,334	215,694	213,586	231,048	241,256	262,519	283,439	316,987
394,779	379,881	403,282	390,220	393,932	408,019	410,741	424,037	425,447
712,553	711,812	714,076	693,601	700,333	696,262	688,050	680,343	668,039
6,313,555	6,464,573	6,394,680	6,434,598	6,570,141	6,665,024	6,599,006	6,531,849	6,670,237

nex I Parties.

exception is made for European Union (KP) whereby the base year under the Kyoto Protocol is displayed.

: of the United Nations concerning the legal status of any country, territory, city or area or of its authorities, or

24,216	18,955	20,336	22,921	14,474	15,802	12,685	8,005	8,405
51,593	49,441	51,498	48,608	49,589	50,161	47,705	45,630	46,067
318,380	322,668	325,169	350,457	372,534	362,493	380,452	374,984	402,539
427,985	364,794	375,758	412,735	396,562	400,703	356,350	310,490	333,284
647,109	591,079	605,251	557,586	574,649	560,560	519,938	502,268	477,236
6,506,377	6,024,079	6,269,233	6,055,843	5,819,868	5,996,758	6,089,977	5,912,718	5,769,654

concerning the delimitation of its frontiers or boundaries as may be referred to in any of the submissions.

8,933	(26,204)	(75)
45,561	(6,662)	(13)
426,345	163,826	62
310,271	(100,470)	(24)
464,453	(223,597)	(32)
5,742,623	(856,383)	(13)

https://di.unfccc.int/time_series

Time Series - GHG total excluding LULUCF, in kt CO₂ equivalent

Party

Australia

Austria

Belarus

Belgium

Bulgaria

Canada

Croatia

Cyprus

Czechia

Denmark

Estonia

European Union (Convention)

European Union (KP)

Finland

France

Germany

Greece

Hungary

Iceland

Ireland

Italy

Japan

Kazakhstan

Latvia

Liechtenstein

Lithuania

Luxembourg

Malta

Monaco

Netherlands

New Zealand

Norway

Poland

Portugal

Romania

Russian Federation

Slovakia

Slovenia

Spain

1990	1991	1992	1993	1994	1995	1996	1997	1998
420,315	421,381	425,702	426,232	426,305	434,913	442,506	454,629	468,406
78,670	82,349	75,750	75,932	76,207	79,584	82,875	82,405	81,702
139,274	130,878	121,000	107,331	91,705	83,681	85,668	89,396	86,196
146,587	149,324	148,920	147,890	152,523	154,665	158,303	149,782	154,957
101,849	83,417	77,786	76,759	73,099	74,606	74,771	71,788	67,934
602,184	593,402	610,441	612,264	633,675	651,011	672,053	686,988	694,531
31,858	25,038	23,114	23,256	22,338	22,937	23,546	24,765	25,110
5,669	6,184	6,618	6,901	7,155	7,099	7,446	7,537	7,866
197,393	179,182	172,687	165,018	157,518	156,718	159,770	155,160	148,998
70,515	81,146	75,165	77,370	81,267	78,332	91,500	82,058	78,077
40,432	37,284	27,292	21,351	22,059	20,259	20,960	20,585	18,996
5,649,529	5,555,046	5,379,831	5,281,540	5,255,297	5,308,544	5,418,672	5,326,317	5,281,519
5,655,915	5,561,232	5,385,996	5,287,790	5,261,494	5,314,932	5,425,238	5,333,194	5,288,764
71,133	68,905	67,468	69,728	75,346	71,788	77,675	76,256	72,566
551,049	578,336	566,697	545,037	538,664	546,758	564,087	556,744	570,619
1,250,993	1,203,924	1,153,796	1,144,857	1,125,835	1,123,035	1,141,085	1,106,001	1,080,729
103,101	103,172	104,423	104,013	106,804	109,156	112,303	117,213	122,812
93,656	86,997	76,994	77,860	76,733	75,320	77,621	76,126	75,668
3,613	3,396	3,307	3,391	3,313	3,438	3,485	3,655	3,817
55,417	56,097	55,959	56,360	57,697	59,177	61,273	62,652	65,174
517,746	518,909	515,451	509,408	503,475	532,419	525,295	531,865	543,114
1,270,004	1,283,840	1,296,546	1,289,062	1,353,408	1,374,496	1,387,111	1,379,443	1,330,891
386,908	373,798	345,530	306,470	256,900	237,754	219,034	209,696	206,752
26,259	24,366	19,617	16,200	14,269	12,893	12,934	12,383	11,884
229	237	237	244	230	234	237	249	260
48,242	50,247	30,969	24,883	23,419	22,401	23,454	23,011	23,957
12,756	13,404	13,133	13,287	12,466	10,093	10,155	9,505	8,627
2,103	2,280	2,483	2,503	2,676	2,676	2,638	2,692	2,704
102	103	108	107	108	105	109	107	106
220,794	228,441	229,171	229,929	230,816	231,012	242,077	233,882	234,438
65,668	66,491	67,621	67,383	68,703	69,412	71,541	74,327	72,236
51,210	48,976	47,321	49,154	50,996	51,278	54,291	54,222	54,426
474,350	462,290	449,316	448,829	443,646	444,963	458,390	449,501	417,992
59,092	60,796	65,086	63,670	64,536	68,927	66,652	69,943	74,682
248,068	204,953	190,986	182,119	180,179	187,179	189,565	186,027	166,824
3,186,796	3,024,288	2,537,054	2,399,329	2,137,001	2,084,833	2,029,805	1,912,592	1,879,190
73,365	63,958	58,560	55,029	52,695	53,273	53,196	53,085	52,500
18,639	17,320	17,419	17,621	18,025	18,721	19,356	19,708	19,464
288,492	296,204	305,976	295,738	312,540	328,614	320,379	334,704	344,566

1999	2000	2001	2002	2003	2004	2005	2006	2007
474,027	485,019	492,462	496,319	498,119	515,931	521,801	526,437	533,138
80,105	80,415	84,324	86,111	91,788	91,383	92,567	90,117	87,473
82,811	81,241	81,243	79,936	82,104	86,916	88,283	92,216	91,742
148,645	149,730	148,132	147,567	147,932	149,231	145,284	142,660	138,961
60,690	59,567	62,678	59,718	64,193	63,342	63,907	64,485	68,359
707,376	730,588	719,733	724,349	741,003	742,972	730,349	721,445	743,767
26,213	25,861	27,056	28,095	29,515	29,627	30,012	30,394	31,794
8,135	8,394	8,334	8,560	8,950	9,152	9,344	9,554	9,893
139,448	149,334	149,097	145,506	148,759	149,625	147,494	148,599	150,337
75,672	71,368	73,066	72,590	77,645	71,511	67,091	74,859	70,293
17,652	17,360	17,760	17,221	19,110	19,375	19,203	18,498	22,225
5,172,644	5,168,912	5,223,118	5,182,923	5,265,583	5,265,369	5,228,429	5,214,525	5,162,425
5,179,974	5,176,190	5,230,071	5,190,004	5,272,512	5,272,444	5,235,539	5,222,343	5,170,735
71,981	70,130	75,490	77,947	85,532	81,841	69,813	81,174	79,513
562,661	556,370	561,355	554,879	559,544	557,794	559,499	547,093	536,948
1,047,034	1,045,187	1,060,271	1,038,920	1,035,574	1,019,124	993,344	1,000,638	973,942
122,983	126,346	127,399	127,395	131,132	131,814	136,281	132,391	134,997
76,138	73,208	75,244	73,602	76,639	75,605	75,360	74,143	72,384
4,040	4,047	3,945	4,015	3,993	4,097	3,957	4,558	4,863
66,309	68,478	70,475	68,429	68,663	67,964	69,495	68,782	68,018
548,226	554,106	561,225	561,243	575,696	579,999	580,600	570,045	560,569
1,354,486	1,374,847	1,349,407	1,373,198	1,379,176	1,371,762	1,378,957	1,357,395	1,393,442
178,741	214,269	174,886	194,281	217,078	226,064	240,225	267,027	276,542
11,102	10,488	11,062	11,043	11,222	11,207	11,388	11,884	12,339
257	248	247	254	264	264	265	268	239
21,139	19,603	20,359	20,749	20,895	21,760	22,966	23,252	25,389
9,093	9,678	10,165	10,942	11,381	12,783	13,025	12,852	12,267
2,755	2,768	2,676	2,680	2,895	2,830	2,910	2,963	3,066
108	109	107	107	104	100	99	92	95
221,105	219,304	220,007	217,879	218,564	219,970	214,308	209,234	207,700
74,083	76,180	79,103	79,387	81,591	81,251	83,270	83,442	81,325
55,365	54,832	56,118	55,029	55,694	56,203	55,367	55,327	57,013
406,560	395,472	394,371	384,386	398,005	403,040	403,424	418,138	418,633
82,758	82,082	81,690	85,601	80,266	83,349	85,610	80,855	78,575
147,872	143,126	146,156	148,861	153,745	152,516	151,352	152,072	153,117
1,904,986	1,900,820	1,941,994	1,923,732	1,958,582	1,973,484	1,993,963	2,056,688	2,058,076
51,158	49,263	51,559	50,189	50,471	51,234	51,230	51,111	49,331
18,833	19,076	19,994	20,176	19,900	20,217	20,519	20,707	20,847
372,043	387,528	385,241	403,569	410,975	426,793	441,038	434,006	445,158

2008	2009	2010	2011	2012	2013	2014	2015	2016
537,032	540,913	537,275	538,281	540,616	530,434	524,957	535,174	546,772
86,816	80,329	84,753	82,460	79,811	80,353	76,680	78,897	79,596
95,568	91,458	93,766	93,378	94,271	95,364	94,588	89,959	91,583
138,828	126,263	132,922	122,198	119,373	119,304	113,506	117,122	115,783
66,954	57,970	60,550	65,852	60,779	55,513	58,528	61,709	59,085
723,225	681,699	692,619	703,379	711,023	722,063	723,091	721,992	707,727
30,849	28,497	28,085	27,789	25,916	24,555	23,763	24,247	24,385
10,041	9,789	9,473	9,117	8,577	7,860	8,234	8,321	8,759
145,614	137,215	139,734	137,753	133,698	128,691	126,758	127,778	129,757
66,657	63,876	64,178	58,947	54,335	56,021	51,871	49,254	51,298
20,046	16,758	21,214	21,259	20,171	21,942	21,147	18,127	19,665
5,046,999	4,681,900	4,783,628	4,626,382	4,563,065	4,468,920	4,297,636	4,327,313	4,303,392
5,055,532	4,689,990	4,791,564	4,634,079	4,570,816	4,476,708	4,305,469	4,335,146	4,311,021
71,399	67,804	75,627	67,805	62,415	62,894	58,733	55,123	58,044
530,315	510,351	517,116	491,009	490,856	491,141	461,479	466,385	467,622
975,646	908,054	942,542	920,306	924,611	942,250	903,196	907,190	911,049
131,716	124,535	118,436	115,454	112,146	102,547	99,113	95,330	91,698
70,576	64,586	64,949	63,351	59,647	56,796	57,416	60,767	61,140
5,251	4,953	4,855	4,591	4,611	4,608	4,644	4,726	4,651
67,302	61,547	61,105	56,989	57,612	57,410	57,099	59,212	61,270
547,847	496,178	505,773	492,475	472,722	442,708	426,212	434,044	432,119
1,321,398	1,248,599	1,302,732	1,353,795	1,396,605	1,408,057	1,360,071	1,321,467	1,305,751
280,068	274,904	306,787	298,394	305,171	312,754	333,480	344,801	345,759
11,874	11,176	12,279	11,489	11,327	11,260	11,173	11,256	11,269
259	244	229	216	226	232	201	198	188
24,477	20,152	21,009	21,575	21,503	20,258	20,215	20,479	20,510
12,154	11,608	12,180	12,062	11,781	11,239	10,787	10,295	10,052
3,074	2,878	2,910	2,997	3,187	2,860	2,875	2,188	1,896
93	88	88	86	89	90	84	89	88
207,095	201,413	213,363	199,235	195,347	194,954	187,282	195,560	195,384
81,267	78,477	78,965	78,679	81,055	80,541	81,310	81,202	79,136
55,596	53,178	55,467	54,638	54,090	54,015	54,127	54,450	53,608
411,396	393,443	411,669	411,034	403,648	399,974	387,087	390,445	399,123
76,157	73,032	68,801	67,417	65,556	63,711	63,709	67,735	65,936
149,573	129,622	123,905	129,230	125,917	116,305	116,329	116,463	114,272
2,097,173	1,960,224	2,057,673	2,120,497	2,146,305	2,090,717	2,089,475	2,093,653	2,097,477
49,830	45,532	46,367	45,641	43,120	42,827	40,779	41,782	42,298
21,573	19,602	19,626	19,635	19,062	18,359	16,626	16,820	17,681
411,404	372,107	357,677	357,344	350,672	323,441	326,121	337,599	326,383

Last Inventory Year (2017)	Change from 2005 to 2017	% Change from 2005 to 2017
554,127	32,326	6
82,261	(10,305)	(11)
93,960	5,677	6
114,540	(30,744)	(21)
61,367	(2,540)	(4)
715,749	(14,600)	(2)
25,020	(4,993)	(17)
8,963	(381)	(4)
128,675	(18,819)	(13)
49,226	(17,865)	(27)
20,880	1,677	9
4,323,163	(905,265)	(17)
4,330,978	(904,561)	(17)
55,334	(14,479)	(21)
471,028	(88,471)	(16)
906,611	(86,732)	(9)
95,421	(40,860)	(30)
63,788	(11,572)	(15)
4,766	809	20
60,744	(8,751)	(13)
427,708	(152,892)	(26)
1,289,631	(89,326)	(6)
366,174	125,949	52
11,306	(82)	(1)
194	(71)	(27)
20,706	(2,260)	(10)
10,236	(2,789)	(21)
2,152	(758)	(26)
87	(12)	(12)
193,260	(21,049)	(10)
80,853	(2,417)	(3)
52,713	(2,654)	(5)
413,781	10,357	3
70,546	(15,064)	(18)
113,796	(37,557)	(25)
2,155,471	161,508	8
43,438	(7,792)	(15)
17,453	(3,066)	(15)
340,231	(100,807)	(23)

Sweden
Switzerland
Turkey
Ukraine
United Kingdom of Great Britain and Northern Ireland
United States of America

Source: UNFCCC GHG Data Interface

Note 1: The reporting and review requirements for GHG inventories are different for Annex I and non-Annex I Parties. Th

Note 2: Base year data in the data interface relate to the base year under the Climate Change Convention (UNFCCC). The

Note 3: – means "No data available"

Note 4: Data displayed on the data interface are "as received" from Parties. The publication of Party submissions on this \n
Report produced on Monday, 20 April 2020 23:52:29 CEST

71,304	71,482	70,923	71,192	73,571	73,287	76,894	72,137	72,496
53,252	55,117	54,879	52,325	51,325	52,189	52,800	51,610	53,253
219,202	226,578	232,802	240,149	234,127	247,585	267,232	278,607	280,288
938,603	852,384	797,505	707,344	601,634	558,898	512,482	496,743	478,325
797,948	807,119	786,249	766,961	757,972	751,272	773,286	747,862	746,500
6,371,001	6,315,615	6,424,934	6,532,070	6,624,836	6,710,067	6,907,699	6,968,462	7,032,526

e definition format of data for emissions/removals from the forestry sector is different for Annex I and non-Annex I. The base year under the Convention is defined slightly different than the base year under the Kyoto Protocol. An

website does not imply the expression of any opinion whatsoever on the part of the UNFCCC or the Secretariat

69,631	68,483	68,854	69,791	70,212	69,319	66,587	66,536	64,936
52,976	52,352	53,893	52,266	53,401	54,029	54,714	54,335	52,442
277,759	298,890	280,411	286,073	305,596	314,951	337,213	358,155	391,423
447,312	425,536	443,633	428,806	438,332	440,910	440,085	457,685	461,192
715,997	715,687	718,693	699,148	706,205	702,933	695,165	688,015	676,322
7,071,461	7,232,011	7,116,810	7,156,653	7,199,263	7,333,052	7,339,040	7,270,327	7,369,968

nex I Parties.

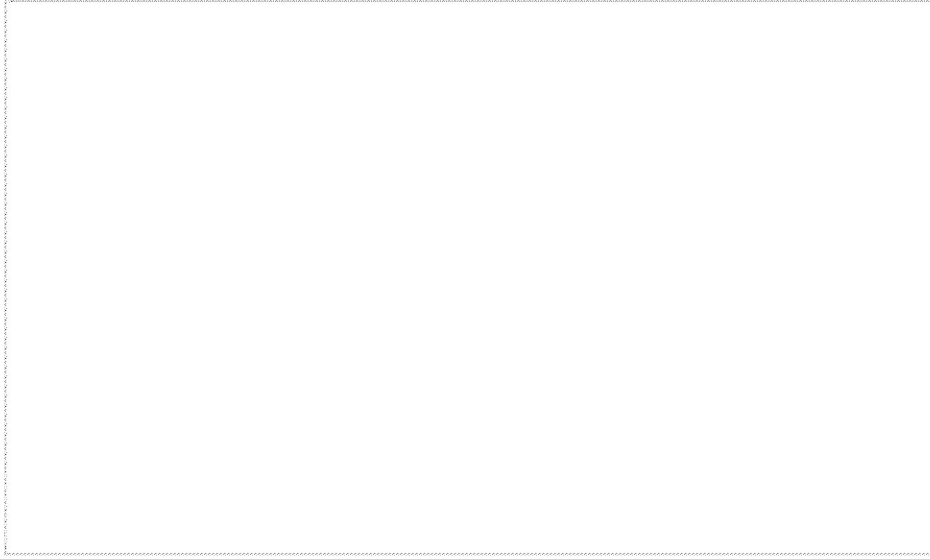
exception is made for European Union (KP) whereby the base year under the Kyoto Protocol is displayed.

: of the United Nations concerning the legal status of any country, territory, city or area or of its authorities, or

62,566	58,340	64,282	60,207	56,873	55,366	53,832	53,461	52,943
53,914	52,562	54,117	50,029	51,456	52,229	48,364	47,816	48,183
387,593	395,515	398,661	427,572	446,935	438,969	457,962	472,191	498,469
448,601	388,280	405,103	426,080	415,232	406,507	360,267	316,771	335,116
655,903	599,871	614,361	567,161	583,653	569,902	529,503	511,980	487,035
7,160,601	6,709,369	6,938,592	6,787,419	6,545,969	6,710,218	6,759,996	6,623,775	6,492,267

concerning the delimitation of its frontiers or boundaries as may be referred to in any of the submissions.

52,660	(13,927)	(21)
47,159	(7,555)	(14)
526,253	189,040	56
320,626	(119,459)	(27)
474,346	(220,819)	(32)
6,456,718	(882,322)	(12)



https://di.unfccc.int/time_series

Time Series - GHG total excluding LULUCF, in kt CO₂ equivalent

Party

Australia

Austria

Belarus

Belgium

Bulgaria

Canada

Croatia

Cyprus

Czechia

Denmark

Estonia

European Union (Convention)

European Union (KP)

Finland

France

Germany

Greece

Hungary

Iceland

Ireland

Italy

Japan

Kazakhstan

Latvia

Liechtenstein

Lithuania

Luxembourg

Malta

Monaco

Netherlands

New Zealand

Norway

Poland

Portugal

Romania

Russian Federation

Slovakia

Slovenia

Spain

1990	1991	1992	1993	1994	1995	1996	1997	1998
278,424	279,872	284,912	289,235	294,015	305,410	312,361	320,795	334,684
62,323	65,931	60,442	60,806	61,199	64,268	67,694	67,464	67,067
104,139	97,044	89,994	77,619	64,375	57,950	59,204	62,548	59,412
120,482	123,543	122,656	121,555	124,939	126,080	129,579	124,043	130,281
76,542	61,126	56,918	57,562	55,958	57,573	57,972	55,590	53,176
462,502	452,535	466,708	466,578	481,647	494,241	509,694	524,433	533,101
23,337	17,189	16,513	16,966	16,225	16,933	17,524	18,586	19,290
4,665	5,154	5,530	5,774	6,018	5,889	6,240	6,328	6,621
164,204	148,894	144,618	138,636	132,374	131,606	134,960	130,729	125,313
54,850	65,434	59,599	61,687	65,704	62,658	75,989	66,605	62,398
37,067	34,036	24,512	19,064	19,899	18,202	18,923	18,480	16,907
4,469,107	4,416,638	4,271,613	4,189,143	4,171,079	4,216,399	4,319,594	4,231,575	4,224,398
4,473,507	4,420,935	4,276,126	4,193,816	4,175,712	4,221,199	4,324,586	4,236,789	4,229,821
56,972	55,230	54,286	56,353	61,716	58,145	64,062	62,723	59,373
403,207	428,779	418,208	398,481	393,286	400,546	416,025	408,966	428,543
1,052,520	1,014,440	966,177	956,517	939,908	939,543	959,606	931,750	923,824
83,375	83,351	84,916	84,229	86,392	86,946	89,099	93,804	98,625
73,445	69,782	62,421	63,553	61,897	61,627	63,188	61,775	61,357
2,237	2,118	2,263	2,421	2,362	2,465	2,520	2,616	2,635
32,891	33,620	33,431	33,662	34,784	35,805	37,421	38,763	40,659
439,640	439,345	437,251	430,545	424,811	451,433	444,186	448,835	459,908
1,158,515	1,170,048	1,179,751	1,172,721	1,227,636	1,239,998	1,252,071	1,245,320	1,205,590
266,608	257,243	233,050	204,856	170,561	162,800	149,062	140,013	135,083
19,505	17,784	14,080	11,819	10,297	9,090	9,171	8,646	8,281
199	206	207	215	201	204	206	218	229
35,810	37,910	21,217	16,376	15,786	15,054	15,735	15,167	15,993
11,848	12,466	12,218	12,361	11,552	9,160	9,209	8,566	7,687
1,943	2,112	2,305	2,318	2,484	2,477	2,436	2,482	2,485
97	98	103	102	103	100	103	102	101
162,428	170,842	170,681	170,870	171,456	173,030	182,451	175,288	176,403
25,455	26,120	28,114	27,708	27,889	28,011	29,306	31,301	29,896
35,323	33,818	34,737	36,224	38,087	38,704	41,824	41,920	42,211
376,960	374,274	364,682	365,107	360,746	362,428	376,447	367,768	338,543
45,631	47,246	51,516	50,130	50,883	54,854	52,159	55,177	59,669
169,431	139,883	130,804	122,861	122,007	126,985	130,068	122,958	107,533
2,525,501	2,396,186	1,957,863	1,859,648	1,641,541	1,613,078	1,580,299	1,475,291	1,458,299
61,577	53,383	48,976	46,429	43,826	44,267	44,128	44,255	44,012
15,094	14,001	14,007	14,303	14,643	15,255	15,917	16,245	15,961
231,061	240,656	249,362	241,009	253,533	267,227	254,637	267,160	275,694

1999	2000	2001	2002	2003	2004	2005	2006	2007
344,063	350,195	357,669	362,209	369,726	383,205	386,515	392,682	400,415
65,737	66,313	70,275	72,124	77,799	77,921	79,395	77,061	74,469
56,996	55,463	55,564	55,682	57,118	60,773	62,056	64,868	64,271
124,703	126,769	126,120	126,305	127,806	128,830	125,520	123,833	120,445
46,279	45,211	48,923	46,167	50,416	49,507	50,591	51,826	55,637
548,939	571,507	564,231	570,552	587,492	586,469	576,859	570,811	594,732
20,127	19,699	20,817	21,925	23,278	22,925	23,384	23,603	24,919
6,891	7,140	7,016	7,205	7,599	7,834	8,021	8,212	8,528
116,618	127,060	126,952	123,889	127,376	128,110	125,671	126,447	128,261
59,844	55,611	57,325	56,898	62,057	56,503	52,934	60,859	56,103
15,725	15,360	15,706	15,231	17,085	17,284	17,132	16,435	20,067
4,158,854	4,180,838	4,251,916	4,230,009	4,320,360	4,330,022	4,306,544	4,310,987	4,260,780
4,164,338	4,186,363	4,257,153	4,235,435	4,325,691	4,335,507	4,312,067	4,316,749	4,267,050
58,895	57,038	62,536	65,060	72,658	68,961	57,043	68,384	66,760
424,776	419,301	424,113	419,613	426,334	427,389	430,989	420,040	409,653
896,313	900,376	916,913	900,387	901,409	887,458	866,640	878,076	851,418
97,942	102,982	105,369	105,011	109,083	109,530	113,925	112,465	114,583
61,839	58,560	60,176	59,179	61,952	60,424	60,510	59,850	58,553
2,841	2,934	2,863	2,988	2,980	3,101	2,969	3,147	3,494
42,387	45,200	47,562	46,033	45,637	46,128	48,120	47,565	47,636
464,291	470,294	475,966	477,505	490,750	494,591	494,458	489,002	479,078
1,242,192	1,264,978	1,250,344	1,279,555	1,287,782	1,283,044	1,290,310	1,267,158	1,302,894
108,096	133,407	127,628	146,016	163,629	170,164	183,774	206,516	213,014
7,696	7,065	7,475	7,509	7,728	7,738	7,813	8,314	8,636
227	217	215	220	229	229	229	231	201
13,479	11,880	12,596	12,691	12,665	13,268	14,192	14,500	15,844
8,140	8,729	9,222	9,999	10,470	11,849	12,109	11,938	11,333
2,531	2,526	2,426	2,421	2,627	2,540	2,596	2,604	2,683
101	99	99	99	96	91	89	83	83
170,993	171,943	177,082	176,374	179,828	181,449	177,530	172,733	172,599
31,488	32,298	34,476	34,658	36,375	35,961	37,593	37,486	36,577
42,962	42,515	43,867	42,984	44,323	44,646	43,951	44,496	46,239
328,856	318,209	314,602	306,731	319,481	323,645	322,546	335,658	335,610
67,300	66,128	65,760	69,604	64,487	67,275	69,554	64,829	62,329
90,751	95,428	100,327	101,700	105,262	104,235	102,662	105,046	106,889
1,486,251	1,471,235	1,507,718	1,495,710	1,525,644	1,530,777	1,547,693	1,606,722	1,604,778
43,139	41,224	43,320	42,051	42,378	42,867	42,851	42,614	41,004
15,337	15,445	16,378	16,525	16,289	16,651	16,948	17,142	17,279
299,122	310,828	312,737	332,893	336,870	353,369	368,056	359,302	367,223

2008	2009	2010	2011	2012	2013	2014	2015	2016
405,049	408,345	406,426	404,264	406,987	398,052	393,289	402,538	413,157
73,727	67,724	72,228	70,143	67,577	68,161	64,467	66,733	67,315
66,417	61,962	63,883	62,823	63,707	64,462	63,794	59,291	60,942
120,352	107,699	113,814	104,319	101,515	101,579	95,906	99,753	98,422
53,974	45,706	47,794	53,118	48,269	42,566	45,090	48,095	45,258
575,454	543,068	556,420	566,674	570,158	577,346	577,360	576,757	564,068
23,660	21,849	21,064	20,699	19,116	18,455	17,708	17,841	18,083
8,696	8,444	8,082	7,760	7,229	6,551	6,931	6,957	7,362
122,974	115,224	117,460	115,005	110,905	106,377	104,015	104,786	106,599
52,648	50,201	50,695	45,666	41,229	43,082	38,872	36,514	38,329
17,871	14,610	19,016	19,098	17,936	19,698	18,904	15,891	17,477
4,162,050	3,825,045	3,941,225	3,796,391	3,737,540	3,650,091	3,480,708	3,514,527	3,497,546
4,168,449	3,831,244	3,947,274	3,802,345	3,743,540	3,656,126	3,486,736	3,520,556	3,503,418
58,612	55,923	64,097	56,579	51,222	51,757	47,657	44,124	47,241
403,280	386,291	394,447	370,061	370,672	371,869	341,304	346,936	349,248
853,771	788,924	832,388	809,749	814,138	831,570	792,793	795,940	801,655
111,113	104,341	97,343	94,532	91,418	81,723	78,650	74,959	71,367
57,455	51,801	52,138	50,376	46,830	43,780	43,925	46,677	47,430
3,795	3,731	3,621	3,486	3,489	3,482	3,462	3,533	3,490
47,316	42,109	41,678	38,000	38,179	37,166	36,671	38,429	39,895
467,472	416,675	426,351	413,944	392,630	364,089	348,547	355,785	353,487
1,232,232	1,162,961	1,214,424	1,264,518	1,305,886	1,315,077	1,264,880	1,224,539	1,206,166
213,167	208,337	236,262	226,772	233,696	240,136	261,488	273,891	274,252
8,197	7,457	8,554	7,810	7,520	7,385	7,188	7,279	7,232
220	205	191	177	185	193	161	159	149
15,221	13,052	13,964	14,303	14,363	13,367	13,120	13,335	13,368
11,199	10,652	11,217	11,113	10,847	10,297	9,825	9,331	9,076
2,759	2,531	2,532	2,612	2,771	2,438	2,426	1,718	1,413
81	78	76	74	77	78	73	76	75
175,524	170,186	182,186	169,111	165,878	165,764	158,827	166,451	166,387
37,593	34,772	34,997	34,314	35,986	35,310	35,622	35,839	34,260
45,382	43,891	46,229	45,512	45,022	44,947	44,890	45,304	44,463
328,822	315,452	333,457	333,013	325,488	321,169	308,729	312,321	323,022
59,975	57,139	52,937	51,737	49,915	48,113	47,984	52,169	50,368
105,190	87,602	84,022	89,738	86,534	77,180	77,547	77,771	75,798
1,637,200	1,529,228	1,613,523	1,667,031	1,679,385	1,618,434	1,617,678	1,622,498	1,617,653
41,404	37,654	38,499	38,066	35,979	35,570	33,638	34,467	34,893
18,216	16,325	16,369	16,354	15,813	15,179	13,524	13,612	14,414
335,679	296,597	283,109	284,041	278,646	251,973	254,518	271,100	260,289

Last Inventory Year (2017)	Change from 2005 to 2017	% Change from 2005 to 2017
417,041	30,526	8
69,979	(9,416)	(12)
62,699	643	1
97,564	(27,956)	(22)
47,402	(3,189)	(6)
571,139	(5,720)	(1)
18,717	(4,667)	(20)
7,538	(483)	(6)
105,607	(20,064)	(16)
36,283	(16,651)	(31)
18,654	1,523	9
3,515,490	(791,054)	(18)
3,521,555	(790,512)	(18)
44,705	(12,338)	(22)
352,285	(78,704)	(18)
797,966	(68,674)	(8)
74,845	(39,080)	(34)
49,646	(10,864)	(18)
3,614	646	22
38,728	(9,392)	(20)
348,991	(145,467)	(29)
1,188,122	(102,187)	(8)
292,999	109,225	59
7,235	(578)	(7)
155	(74)	(32)
13,628	(564)	(4)
9,243	(2,866)	(24)
1,609	(988)	(38)
73	(16)	(18)
164,478	(13,052)	(7)
36,024	(1,569)	(4)
43,702	(249)	(1)
336,557	14,011	4
54,658	(14,896)	(21)
74,998	(27,663)	(27)
1,647,041	99,348	6
36,034	(6,817)	(16)
14,259	(2,689)	(16)
274,427	(93,629)	(25)

Sweden
Switzerland
Turkey
Ukraine
United Kingdom of Great Britain and Northern Ireland
United States of America

Source: UNFCCC GHG Data Interface

Note 1: The reporting and review requirements for GHG inventories are different for Annex I and non-Annex I Parties. Th

Note 2: Base year data in the data interface relate to the base year under the Climate Change Convention (UNFCCC). The

Note 3: – means "No data available"

Note 4: Data displayed on the data interface are "as received" from Parties. The publication of Party submissions on this \
Report produced on Monday, 20 April 2020 23:52:29 CEST

57,446	57,678	57,392	57,340	59,785	59,200	63,154	58,087	58,640
44,162	46,141	46,016	43,605	42,679	43,414	44,099	43,035	44,613
151,508	157,982	163,922	171,011	167,433	180,903	199,522	212,006	212,040
705,832	632,539	589,062	510,201	419,268	389,866	351,410	340,244	328,580
601,481	609,308	593,748	579,700	575,833	567,354	589,063	562,980	568,148
5,121,179	5,071,564	5,174,671	5,281,387	5,375,034	5,436,698	5,625,042	5,701,921	5,749,893

e definition format of data for emissions/removals from the forestry sector is different for Annex I and non-Annex I. The base year under the Convention is defined slightly different than the base year under the Kyoto Protocol. An

website does not imply the expression of any opinion whatsoever on the part of the UNFCCC or the Secretariat

55,819	54,678	55,650	56,597	57,178	56,422	53,785	53,613	52,756
44,442	43,612	45,076	43,459	44,644	45,229	45,780	45,366	43,360
207,804	229,791	213,486	220,978	236,484	244,464	264,201	281,649	312,737
298,205	285,338	303,561	295,675	307,019	310,365	313,120	332,673	336,366
561,198	567,902	576,721	560,803	572,282	573,786	570,497	568,098	559,916
5,829,520	5,997,299	5,899,855	5,942,421	5,991,191	6,105,444	6,130,552	6,050,385	6,127,888

nex I Parties.

exception is made for European Union (KP) whereby the base year under the Kyoto Protocol is displayed.

: of the United Nations concerning the legal status of any country, territory, city or area or of its authorities, or

50,641	47,068	52,845	48,895	46,323	44,738	43,176	43,057	42,582
44,707	43,529	45,043	40,979	42,248	43,179	39,229	38,728	39,187
309,321	315,360	314,380	339,482	353,666	345,221	361,675	381,332	401,240
325,535	277,295	294,079	307,958	303,965	297,295	257,588	223,910	234,204
545,412	494,890	512,672	470,414	488,341	478,459	439,580	423,122	400,554
5,928,256	5,493,548	5,700,108	5,572,585	5,371,777	5,522,908	5,572,106	5,422,966	5,306,662

concerning the delimitation of its frontiers or boundaries as may be referred to in any of the submissions.

42,050	(11,735)	(22)
38,172	(7,608)	(17)
425,330	161,129	61
223,220	(89,900)	(29)
388,101	(182,396)	(32)
5,270,749	(859,804)	(14)

