

reference values selected scenario type: RM-6 abs	target year 2030		target year 2050		emissions 2019 in Mill. t	per capita emissions 2019 in t		
	vs. reference year		1990	2019			1990	2019
Afghanistan	474%	35%	-100%	-100%	12.05	0.32		
Albania	-50%	-40%	-100%	-100%	5.58	1.90		
Algeria	34%	-48%	-100%	-100%	176.63	4.14		
Angola	79%	-17%	-100%	-100%	24.46	0.77		
Anguilla	174%	-39%	-100%	-100%	0.03	1.82		
Antigua and Barbuda	-34%	-50%	-100%	-100%	0.53	5.08		
Argentina	-10%	-48%	-100%	-100%	188.74	4.18		
Armenia	-84%	-40%	-100%	-100%	5.48	1.87		
Aruba	-22%	-52%	-100%	-100%	0.85	8.05		
Australia	-31%	-54%	-100%	-100%	413.77	16.49		
Austria	-45%	-52%	-100%	-100%	71.00	8.10		
Azerbaijan	-66%	-47%	-100%	-100%	35.16	3.51		
Bahamas	-60%	-50%	-100%	-100%	2.18	5.41		
Bahrain	39%	-54%	-100%	-100%	36.27	22.15		
Bangladesh	583%	-11%	-100%	-100%	110.16	0.66		
Barbados	-48%	-49%	-100%	-100%	1.30	4.52		
Belarus	-72%	-51%	-100%	-100%	62.66	6.64		
Belgium	-59%	-52%	-100%	-100%	99.35	8.59		
Belize	6%	-31%	-100%	-100%	0.46	1.19		
Benin	1607%	-13%	-100%	-100%	8.14	0.69		
Bermuda	-56%	-52%	-100%	-100%	0.57	9.42		
Bhutan	433%	-39%	-100%	-100%	1.47	1.78		
Bolivia	115%	-42%	-100%	-100%	24.01	2.11		
Bosnia and Herzegovina	-47%	-52%	-100%	-100%	27.11	7.74		
Botswana	44%	-46%	-100%	-100%	7.56	3.18		
Brazil	20%	-42%	-100%	-100%	476.98	2.25		
British Virgin Islands	85%	-50%	-100%	-100%	0.16	5.09		
Brunei	11%	-54%	-100%	-100%	8.01	18.23		
Bulgaria	-73%	-51%	-100%	-100%	42.98	6.15		
Burkina Faso	1830%	109%	-100%	-100%	3.61	0.18		
Burundi	1407%	988%	-100%	-100%	0.33	0.03		
Cabo Verde	838%	-37%	-100%	-100%	0.90	1.61		
Cambodia	2778%	-25%	-100%	-100%	15.97	0.97		
Cameroon	145%	20%	-100%	-100%	9.84	0.39		
Canada	-39%	-54%	-100%	-100%	595.39	15.97		
Cayman Islands	-15%	-52%	-100%	-100%	0.49	7.74		
Central African Republic	742%	296%	-100%	-100%	0.40	0.08		
Chad	1697%	485%	-100%	-100%	0.86	0.05		
Chile	39%	-49%	-100%	-100%	90.58	4.94		
China	129%	-52%	-100%	-100%	11,503.86	8.10		
Colombia	6%	-40%	-100%	-100%	92.62	1.86		
Comoros	729%	27%	-100%	-100%	0.30	0.35		
Congo	85%	-30%	-100%	-100%	6.35	1.15		
Cook Islands	-22%	-46%	-100%	-100%	0.06	3.24		
Costa Rica	85%	-39%	-100%	-100%	8.85	1.77		
Côte d'Ivoire	331%	4%	-100%	-100%	12.53	0.49		
Croatia	-62%	-49%	-100%	-100%	18.66	4.51		
Cuba	-61%	-43%	-100%	-100%	26.18	2.28		
Curaçao	-45%	-54%	-100%	-100%	3.18	19.59		
Cyprus	-20%	-50%	-100%	-100%	7.16	5.97		
Czechia	-69%	-52%	-100%	-100%	105.11	9.89		
Democratic Republic of the Congo	683%	675%	-100%	-100%	3.48	0.04		
Denmark	-72%	-50%	-100%	-100%	30.27	5.24		
Djibouti	-38%	-27%	-100%	-100%	1.02	1.03		
Dominica	100%	-43%	-100%	-100%	0.18	2.35		
Dominican Republic	96%	-44%	-100%	-100%	28.06	2.55		
Ecuador	30%	-43%	-100%	-100%	40.01	2.34		
Egypt	71%	-45%	-100%	-100%	282.34	2.79		
El Salvador	101%	-31%	-100%	-100%	7.68	1.19		
Equatorial Guinea	2521%	-46%	-100%	-100%	4.30	3.17		
Eritrea	399%	127%	-100%	-100%	0.85	0.16		
Estonia	-79%	-53%	-100%	-100%	16.22	12.44		
Eswatini	16%	-29%	-100%	-100%	1.57	1.11		
Ethiopia	1599%	114%	-100%	-100%	19.08	0.17		

reference values selected scenario type: RM-6 abs	target year 2030		target year 2050		emissions 2019 in Mill. t	per capita emissions 2019 in t		
	vs. reference year		1990	2019			1990	2019
Falkland Islands	12%	-53%	-100%	-100%	0.03	11.70		
Faroese	934%	694%	-100%	-100%	0.00	0.04		
Fiji	41%	-44%	-100%	-100%	2.43	2.64		
Finland	-63%	-52%	-100%	-100%	44.20	7.95		
France and Monaco	-58%	-49%	-100%	-100%	319.61	4.88		
French Guiana	-50%	-39%	-100%	-100%	0.52	1.76		
French Polynesia	-36%	-47%	-100%	-100%	0.96	3.32		
Gabon	-45%	-45%	-100%	-100%	6.24	2.96		
Georgia	-83%	-45%	-100%	-100%	11.00	2.82		
Germany	-67%	-52%	-100%	-100%	702.20	8.52		
Ghana	426%	-6%	-100%	-100%	17.74	0.59		
Gibraltar	153%	-54%	-100%	-100%	0.79	22.71		
Greece	-55%	-51%	-100%	-100%	72.50	6.52		
Greenland	8016%	-52%	-100%	-100%	0.52	9.18		
Grenada	5%	-40%	-100%	-100%	0.21	1.96		
Guadeloupe	-37%	-48%	-100%	-100%	1.82	4.05		
Guatemala	291%	-33%	-100%	-100%	22.85	1.30		
Guinea	369%	72%	-100%	-100%	3.07	0.23		
Guinea-Bissau	259%	122%	-100%	-100%	0.32	0.17		
Guyana	60%	-42%	-100%	-100%	1.73	2.20		
Haiti	321%	40%	-100%	-100%	3.45	0.31		
Honduras	248%	-33%	-100%	-100%	12.26	1.28		
Hong Kong	-38%	-50%	-100%	-100%	42.75	5.71		
Hungary	-65%	-50%	-100%	-100%	50.44	5.22		
Iceland	-28%	-53%	-100%	-100%	3.54	10.38		
India	158%	-40%	-100%	-100%	2,563.66	1.87		
Indonesia	123%	-43%	-100%	-100%	645.42	2.39		
Iran	61%	-52%	-100%	-100%	685.92	8.28		
Iraq	50%	-50%	-100%	-100%	205.93	5.10		
Ireland	-46%	-52%	-100%	-100%	36.62	7.55		
Israel and Palestine, State of	-5%	-52%	-100%	-100%	69.53	8.10		
Italy, San Marino and the Holy See	-61%	-50%	-100%	-100%	332.86	5.62		
Jamaica	-37%	-46%	-100%	-100%	8.78	3.02		
Japan	-53%	-52%	-100%	-100%	1,139.49	8.98		
Jordan	49%	-44%	-100%	-100%	27.04	2.68		
Kazakhstan	-49%	-53%	-100%	-100%	273.61	14.72		
Kenya	267%	25%	-100%	-100%	19.04	0.36		
Kiribati	293%	-1%	-100%	-100%	0.07	0.54		
Kuwait	38%	-54%	-100%	-100%	98.35	23.15		
Kyrgyzstan	-72%	-39%	-100%	-100%	10.94	1.76		
Laos	8822%	-50%	-100%	-100%	41.99	5.94		
Latvia	-79%	-49%	-100%	-100%	8.46	4.43		
Lebanon	139%	-49%	-100%	-100%	28.02	4.62		
Lesotho	700%	40%	-100%	-100%	0.71	0.31		
Liberia	365%	49%	-100%	-100%	1.39	0.28		
Libya	-26%	-52%	-100%	-100%	57.49	8.75		
Lithuania	-80%	-49%	-100%	-100%	13.91	4.85		
Luxembourg	-62%	-54%	-100%	-100%	9.64	16.15		
Macao	26%	-47%	-100%	-100%	2.23	3.47		
Madagascar	1220%	113%	-100%	-100%	4.69	0.17		
Malawi	779%	325%	-100%	-100%	1.52	0.08		
Malaysia	122%	-52%	-100%	-100%	264.68	8.16		
Maldives	881%	-48%	-100%	-100%	1.70	3.77		
Mali	1854%	94%	-100%	-100%	3.86	0.20		
Malta	-63%	-48%	-100%	-100%	1.64	3.79		
Martinique	-36%	-50%	-100%	-100%	2.04	5.29		
Mauritania	275%	-9%	-100%	-100%	2.95	0.63		
Mauritius	81%	-46%	-100%	-100%	4.00	3.15		
Mexico	-12%	-47%	-100%	-100%	487.57	3.68		
Moldova	-85%	-41%	-100%	-100%	8.25	2.05		
Mongolia	37%	-53%	-100%	-100%	38.42	12.13		
Morocco	91%	-41%	-100%	-100%	72.12	1.97		
Mozambique	1101%	27%	-100%	-100%	11.22	0.36		
Myanmar/Burma	634%	-13%	-100%	-100%	37.90	0.70		

reference values selected scenario type: RM-6 abs	target year 2030		target year 2050		emissions 2019 in Mill. t	per capita emissions 2019 in t		
	vs. reference year		1990	2019			1990	2019
Namibia	56%	-37%	-100%	-100%	4.32	1.63		
Nepal	1432%	-7%	-100%	-100%	18.04	0.60		
Netherlands	-53%	-52%	-100%	-100%	157.82	9.21		
New Caledonia	116%	-54%	-100%	-100%	7.40	26.12		
New Zealand	-24%	-52%	-100%	-100%	37.31	7.79		
Nicaragua	126%	-23%	-100%	-100%	5.80	0.91		
Niger	625%	227%	-100%	-100%	2.40	0.10		
Nigeria	58%	-11%	-100%	-100%	133.47	0.66		
North Korea	-83%	-32%	-100%	-100%	32.40	1.26		
North Macedonia	-60%	-48%	-100%	-100%	8.63	4.13		
Norway	-44%	-52%	-100%	-100%	43.33	8.02		
Oman	160%	-54%	-100%	-100%	87.39	17.47		
Pakistan	140%	-28%	-100%	-100%	217.96	1.07		
Palau	-73%	-55%	-100%	-100%	1.27	57.11		
Panama	119%	-44%	-100%	-100%	10.67	2.52		
Papua New Guinea	175%	-21%	-100%	-100%	7.35	0.86		
Paraguay	166%	-33%	-100%	-100%	8.95	1.28		
Peru	64%	-38%	-100%	-100%	55.08	1.67		
Philippines	124%	-34%	-100%	-100%	150.10	1.39		
Poland	-60%	-52%	-100%	-100%	312.92	8.23		
Portugal	-44%	-49%	-100%	-100%	47.83	4.66		
Puerto Rico	217%	-30%	-100%	-100%	4.17	1.14		
Qatar	189%	-55%	-100%	-100%	108.57	39.57		
Réunion	52%	-46%	-100%	-100%	2.90	3.26		
Romania	-78%	-48%	-100%	-100%	80.77	4.15		
Russia	-65%	-53%	-100%	-100%	1,777.91	12.36		
Rwanda	655%	261%	-100%	-100%	1.18	0.09		
Saint Helena, Ascension and Tristan da	-8%	-48%	-100%	-100%	0.02	4.13		
Saint Kitts and Nevis	74%	-45%	-100%	-100%	0.16	2.84		
Saint Lucia	19%	-40%	-100%	-100%	0.33	1.85		
Saint Pierre and Miquelon	-89%	-52%	-100%	-100%	0.05	8.24		
Saint Vincent and the Grenadines	35%	-31%	-100%	-100%	0.13	1.21		
Samoa	93%	-39%	-100%	-100%	0.36	1.83		
São Tomé and Príncipe	194%	-15%	-100%	-100%	0.15	0.72		
Saudi Arabia	58%	-54%	-100%	-100%	593.33	17.38		
Senegal	307%	-11%	-100%	-100%	10.94	0.65		
Serbia and Montenegro	-36%	-52%	-100%	-100%	89.72	9.58		
Seychelles	81%	-53%	-100%	-100%	1.20	12.58		
Sierra Leone	268%	153%	-100%	-100%	1.11	0.14		
Singapore	-15%	-52%	-100%	-100%	56.70	9.66		
Slovakia	-72%	-51%	-100%	-100%	34.65	6.36		
Slovenia	-55%	-51%	-100%	-100%	15.24	7.32		
Solomon Islands	111%	4%	-100%	-100%	0.31	0.49		
Somalia	587%	438%	-100%	-100%	0.93	0.06		
South Africa	-28%	-52%	-100%	-100%	467.90	8.06		
South Korea	15%	-53%	-100%	-100%	663.00	12.91		
Spain and Andorra	-45%	-50%	-100%	-100%	255.83	5.51		
Sri Lanka	316%	-32%	-100%	-100%	25.82	1.23		
Sudan and South Sudan	380%	14%	-100%	-100%	23.60	0.42		
Suriname	-35%	-47%	-100%	-100%	1.90	3.32		
Sweden	-61%	-49%	-100%	-100%	44.68	4.44		
Switzerland and Liechtenstein	-55%	-49%	-100%	-100%	39.74	4.62		
Syria	-48%	-35%	-100%	-100%	26.20	1.42		
Taiwan	7%	-53%	-100%	-100%	283.84	11.95		
Tajikistan	-48%	-23%	-100%	-100%	8.32	0.90		
Tanzania	1013%	84%	-100%	-100%	12.76	0.21		
Thailand	50%	-48%	-100%	-100%	269.12	3.88		
The Gambia	545%	57%	-100%	-100%	0.58	0.26		
Timor-Leste	471%	-17%	-100%	-100%	1.03	0.76		
Togo	393%	22%	-100%	-100%	3.09	0.38		
Tonga	6%	-30%	-100%	-100%	0.13	1.15		
Trinidad and Tobago	20%	-54%	-100%	-100%	33.23	24.16		
Tunisia	16%	-44%	-100%	-100%	30.70	2.61		
Turkey	39%	-50%	-100%	-100%	413.65	4.99		

reference values selected scenario type: RM-6 abs	target year 2030		target year 2050		emissions 2019 in Mill. t	per capita emissions 2019 in t	
	vs. reference year	1990	2019	1990			2019
Turkmenistan		-17%	-53%	-100%	-100%	81.38	13.69
Turks and Caicos Islands		no data	no data	no data	no data	0.22	6.04
Uganda		2296%	160%	-100%	-100%	6.20	0.14
Ukraine		-87%	-49%	-100%	-100%	196.80	4.49
United Arab Emirates		72%	-54%	-100%	-100%	212.83	21.98
United Kingdom		-69%	-50%	-100%	-100%	359.42	5.37
United States		-54%	-53%	-100%	-100%	5,036.05	15.30
Uruguay		3%	-40%	-100%	-100%	6.75	1.94
Uzbekistan		-59%	-45%	-100%	-100%	90.77	2.77
Vanuatu		56%	-8%	-100%	-100%	0.18	0.61
Venezuela		-43%	-47%	-100%	-100%	108.78	3.32
Vietnam		752%	-47%	-100%	-100%	328.18	3.37
Western Sahara		83%	18%	-100%	-100%	0.23	0.40
Yemen		89%	26%	-100%	-100%	10.64	0.36
Zambia		196%	10%	-100%	-100%	8.11	0.45
Zimbabwe		-39%	-13%	-100%	-100%	12.06	0.70
EU27		-62%	-51%	-100%	-100%	2,932.56	6.61
sub sum						39,454.33	
EU27						-2,932.56	
sum						36,521.77	
global 2019*						36,521.77	
difference						0.00	

* excl. LUC and ISA

reference values scenario: RM-6 abs sorted by 'emissions 2019'	target year 2030		target year 2050		emissions 2019 in Mill. t	per capita emissions 2019 in t	share in the global emissions in 2019	share cumulative emissions without EU
	vs. reference year	1990	2019	1990				
China	129%	-52%	-100%	-100%	11,504	8.1	31.5%	31%
United States	-54%	-53%	-100%	-100%	5,036	15.3	13.8%	45%
EU27	-62%	-51%	-100%	-100%	2,933	6.6	8.0%	45%
India	158%	-40%	-100%	-100%	2,564	1.9	7.0%	52%
Russia	-65%	-53%	-100%	-100%	1,778	12.4	4.9%	57%
Japan	-53%	-52%	-100%	-100%	1,139	9.0	3.1%	60%
Germany	-67%	-52%	-100%	-100%	702	8.5	1.9%	62%
Iran	61%	-52%	-100%	-100%	686	8.3	1.9%	64%
South Korea	15%	-53%	-100%	-100%	663	12.9	1.8%	66%
Indonesia	123%	-43%	-100%	-100%	645	2.4	1.8%	68%
Canada	-39%	-54%	-100%	-100%	595	16.0	1.6%	69%
Saudi Arabia	58%	-54%	-100%	-100%	593	17.4	1.6%	71%
Mexico	-12%	-47%	-100%	-100%	488	3.7	1.3%	72%
Brazil	20%	-42%	-100%	-100%	477	2.2	1.3%	74%
South Africa	-28%	-52%	-100%	-100%	468	8.1	1.3%	75%
Australia	-31%	-54%	-100%	-100%	414	16.5	1.1%	76%
Turkey	39%	-50%	-100%	-100%	414	5.0	1.1%	77%
United Kingdom	-69%	-50%	-100%	-100%	359	5.4	1.0%	78%
Italy, San Marino and the Holy S	-61%	-50%	-100%	-100%	333	5.6	0.9%	79%
Vietnam	752%	-47%	-100%	-100%	328	3.4	0.9%	80%
France and Monaco	-58%	-49%	-100%	-100%	320	4.9	0.9%	81%

sum emissions 2020 - 2100 - national budgets -	RM-1 const	RM-2 exp	RM-3 lin	RM-4 quadr	RM-5 rad	RM-6 abs	average budget RM 3 - 6	scope average budget
in Mill. t								
Afghanistan	549.67	266.13	356.79	265.55	414.03	314.19	337.6	28
Albania	80.38	65.97	70.64	66.02	73.51	68.43	69.6	12
Algeria	1,935.28	1,891.10	1,907.25	1,893.83	1,914.86	1,899.08	1,903.8	11
Angola	582.39	364.62	434.42	364.42	478.27	401.57	419.7	17
Anguilla	0.40	0.33	0.35	0.33	0.37	0.34	0.3	13
Antigua and Barbuda	5.47	5.53	5.52	5.54	5.50	5.52	5.5	10
Argentina	2,063.70	2,020.61	2,036.56	2,023.54	2,043.85	2,028.44	2,033.1	11
Armenia	80.41	65.85	70.56	65.90	73.46	68.33	69.6	13
Aruba	8.08	8.69	8.51	8.71	8.38	8.59	8.5	10
Australia	3,626.84	4,135.88	3,978.18	4,143.95	3,872.14	4,050.83	4,011.3	10
Austria	673.98	724.84	709.43	726.13	698.61	716.43	712.6	10
Azerbaijan	405.06	383.84	391.02	384.35	395.05	387.53	389.5	11
Bahamas	22.26	22.73	22.61	22.77	22.50	22.66	22.6	10
Bahrain	313.92	363.13	347.84	363.85	337.62	354.90	351.1	10
Bangladesh	2,932.76	1,748.30	2,127.70	1,746.83	2,366.39	1,949.21	2,047.5	19
Barbados	13.83	13.73	13.78	13.75	13.79	13.75	13.8	11
Belarus	618.21	649.22	640.05	650.32	633.31	644.15	642.0	10
Belgium	929.45	1,006.38	982.97	1,008.19	966.67	993.63	987.9	10
Belize	8.44	6.05	6.82	6.05	7.30	6.46	6.7	14
Benin	208.55	126.08	152.50	125.98	169.12	140.07	146.9	18
Bermuda	5.30	5.79	5.64	5.80	5.54	5.71	5.7	10
Bhutan	21.92	17.70	19.06	17.71	19.91	18.42	18.8	13
Bolivia	329.29	277.66	294.42	277.91	304.68	286.47	290.9	12
Bosnia and Herzegovina	258.34	276.49	271.01	276.98	267.14	273.49	272.2	10
Botswana	89.56	83.19	85.31	83.29	86.54	84.29	84.9	11
Brazil	6,417.24	5,503.43	5,800.70	5,508.62	5,981.89	5,659.54	5,737.7	12
British Virgin Islands	1.70	1.72	1.71	1.72	1.71	1.71	1.7	10
Brunei	70.14	80.37	77.19	80.52	75.06	78.66	77.9	10
Bulgaria	427.90	444.94	440.00	445.68	436.23	442.17	441.0	10
Burkina Faso	275.88	115.91	167.02	115.53	199.34	143.02	156.2	43
Burundi	143.29	49.17	79.22	48.92	98.25	65.11	72.9	224
Cabo Verde	14.00	10.97	11.95	10.98	12.55	11.49	11.7	13
Cambodia	329.47	222.23	256.65	222.19	278.21	240.44	249.4	16
Cameroon	386.76	196.71	257.49	196.34	295.85	228.92	244.7	25
Canada	5,219.90	5,942.75	5,718.90	5,954.34	5,568.26	5,822.00	5,765.9	10
Cayman Islands	4.65	4.98	4.88	4.99	4.81	4.93	4.9	10
Central African Republic	61.86	23.09	35.47	22.99	43.31	29.66	32.9	82
Chad	199.12	71.25	112.08	70.92	137.93	92.91	103.5	121
Chile	950.07	956.45	955.47	957.93	953.49	955.63	955.6	11
China	110,554.54	118,797.77	116,299.89	119,006.02	114,546.51	117,434.04	116,821.6	10
Colombia	1,353.26	1,105.42	1,185.62	1,106.24	1,235.04	1,147.66	1,168.6	13
Comoros	12.73	6.30	8.35	6.28	9.65	7.39	7.9	26
Congo	118.57	84.20	95.24	84.20	102.15	90.04	92.9	15
Cook Islands	0.67	0.62	0.64	0.62	0.65	0.63	0.6	11
Costa Rica	131.37	105.76	114.04	105.83	119.15	110.12	112.3	13
Côte d'Ivoire	411.32	224.13	284.03	223.82	321.79	255.87	271.4	22
Croatia	200.38	198.72	199.47	199.02	199.66	199.05	199.3	11
Cuba	348.38	299.59	315.47	299.87	325.14	307.92	312.1	12
Curaçao	27.32	31.49	30.20	31.55	29.33	30.79	30.5	10
Cyprus	71.64	74.19	73.46	74.32	72.89	73.78	73.6	10
Czechia	966.97	1,061.46	1,032.52	1,063.42	1,012.62	1,045.75	1,038.6	10
Democratic Republic of the Congo	1,082.02	378.67	603.24	376.80	745.44	497.80	555.8	160
Denmark	310.65	315.67	314.42	316.17	313.18	314.90	314.7	10
Djibouti	20.05	13.75	15.77	13.74	17.04	14.82	15.3	15
Dominica	2.31	2.00	2.10	2.00	2.16	2.05	2.1	12
Dominican Republic	361.80	320.29	333.87	320.63	342.05	327.40	331.0	12
Ecuador	524.95	454.15	477.21	454.60	491.23	466.25	472.3	12
Egypt	3,502.26	3,162.17	3,274.02	3,165.79	3,340.66	3,220.56	3,250.3	12
El Salvador	139.62	100.16	112.84	100.17	120.77	106.86	110.2	14
Equatorial Guinea	51.35	47.65	48.88	47.71	49.60	48.29	48.6	11
Eritrea	71.32	29.36	42.77	29.26	51.24	36.47	39.9	47
Estonia	145.31	162.66	157.31	162.97	153.68	159.76	158.4	10
Eswatini	29.81	20.95	23.80	20.95	25.58	22.45	23.2	15
Ethiopia	1,491.03	623.17	900.45	621.10	1,075.79	770.21	841.9	44

sum emissions 2020 - 2100 - national budgets -	RM-1 const	RM-2 exp	RM-3 lin	RM-4 quadr	RM-5 rad	RM-6 abs	average budget RM 3 - 6	scope average budget
in Mill. t								
Falkland Islands	0.31	0.34	0.33	0.34	0.32	0.34	0.3	10
Faroese	0.62	0.22	0.35	0.22	0.43	0.28	0.3	164
Fiji	30.78	27.46	28.55	27.49	29.20	28.03	28.3	12
Finland	421.85	452.65	443.33	453.45	436.77	447.56	445.3	10
France and Monaco	3,343.37	3,359.51	3,358.07	3,364.72	3,352.40	3,357.68	3,358.2	11
French Guiana	7.77	6.24	6.74	6.25	7.04	6.50	6.6	13
French Polynesia	11.25	10.54	10.78	10.56	10.91	10.66	10.7	11
Gabon	75.83	69.35	71.49	69.43	72.76	70.47	71.0	11
Georgia	135.95	123.01	127.27	123.15	129.80	125.23	126.4	11
Germany	6,620.63	7,158.50	6,994.95	7,171.31	6,880.91	7,069.38	7,029.1	10
Ghana	508.16	292.61	361.63	292.31	405.08	329.17	347.0	20
Gibraltar	6.76	7.85	7.51	7.86	7.28	7.66	7.6	10
Greece	705.73	739.90	729.83	741.16	722.38	734.31	731.9	10
Greenland	4.86	5.29	5.16	5.30	5.07	5.22	5.2	10
Grenada	3.02	2.50	2.67	2.50	2.77	2.59	2.6	12
Guadeloupe	19.93	19.39	19.58	19.42	19.68	19.49	19.5	11
Guatemala	395.38	291.06	324.63	291.14	345.55	308.79	317.5	14
Guinea	187.43	83.15	116.47	82.91	137.54	100.82	109.4	36
Guinea-Bissau	26.33	10.91	15.84	10.87	18.95	13.52	14.8	46
Guyana	23.35	19.90	21.02	19.92	21.71	20.49	20.8	12
Haiti	164.11	78.11	105.60	77.93	122.97	92.68	99.8	29
Honduras	213.91	156.81	175.19	156.86	186.64	166.52	171.3	14
Hong Kong	426.75	439.27	435.77	439.99	432.91	437.27	436.5	10
Hungary	524.58	532.67	530.68	533.51	528.66	531.45	531.1	11
Iceland	32.40	35.72	34.70	35.78	34.00	35.16	34.9	10
India	37,235.82	30,466.24	32,657.14	30,489.06	34,006.73	31,619.98	32,193.2	13
Indonesia	8,423.23	7,332.79	7,688.40	7,340.22	7,904.04	7,519.29	7,613.0	12
Iran	6,563.13	7,069.77	6,916.00	7,082.23	6,808.39	6,985.89	6,948.1	10
Iraq	2,143.44	2,168.38	2,162.81	2,171.77	2,156.22	2,164.74	2,163.9	11
Ireland	351.33	374.89	367.80	375.55	362.76	371.00	369.3	10
Israel and Palestine, State of	660.04	709.85	694.76	711.11	684.16	701.61	697.9	10
Italy, San Marino and the Holy See	3,378.54	3,468.78	3,443.84	3,474.40	3,423.09	3,454.43	3,448.9	10
Jamaica	105.52	96.91	99.76	97.03	101.44	98.40	99.2	11
Japan	10,687.73	11,617.17	11,333.70	11,638.11	11,137.19	11,462.97	11,393.0	10
Jordan	340.69	305.00	316.71	305.34	323.72	311.12	314.2	12
Kazakhstan	2,434.19	2,754.42	2,655.37	2,759.71	2,588.56	2,700.95	2,676.1	10
Kenya	786.13	391.93	518.00	391.16	597.57	458.75	491.4	26
Kiribati	1.99	1.12	1.40	1.11	1.57	1.26	1.3	21
Kuwait	839.39	974.42	932.46	976.38	904.41	951.83	941.3	10
Kyrgyzstan	164.68	132.71	143.04	132.79	149.42	138.15	140.9	13
Laos	425.58	440.27	436.07	440.99	432.78	437.90	436.9	10
Latvia	90.69	89.66	90.09	89.80	90.23	89.86	90.0	11
Lebanon	299.30	298.06	298.78	298.51	298.82	298.35	298.6	11
Lesotho	33.54	16.00	21.61	15.97	25.15	18.98	20.4	29
Liberia	71.65	33.35	45.59	33.26	53.33	39.84	43.0	31
Libya	540.34	585.84	571.98	586.90	562.35	578.30	574.9	10
Lithuania	147.02	147.59	147.57	147.82	147.35	147.53	147.6	11
Luxembourg	83.66	95.43	91.78	95.61	89.33	93.46	92.5	10
Macao	25.81	24.40	24.88	24.43	25.14	24.65	24.8	11
Madagascar	365.30	152.81	220.70	152.30	263.63	188.81	206.4	44
Malawi	251.83	93.17	143.83	92.76	175.90	120.04	133.1	88
Malaysia	2,534.44	2,725.89	2,667.85	2,730.69	2,627.15	2,694.21	2,680.0	10
Maldives	19.23	18.48	18.74	18.50	18.88	18.61	18.7	11
Mali	270.15	115.77	165.10	115.41	196.29	141.93	154.7	40
Malta	18.46	17.75	18.00	17.77	18.13	17.87	17.9	11
Martinique	20.93	21.30	21.20	21.33	21.11	21.24	21.2	10
Mauritania	80.25	47.22	57.80	47.18	64.46	52.82	55.6	19
Mauritius	47.46	43.96	45.12	44.02	45.80	44.56	44.9	11
Mexico	5,475.13	5,234.45	5,316.95	5,241.66	5,361.95	5,276.59	5,299.3	11
Moldova	115.96	97.24	103.31	97.32	107.04	100.43	102.0	12
Mongolia	349.28	389.70	377.25	390.44	368.78	382.97	379.9	10
Morocco	1,024.69	849.54	906.29	850.23	941.17	879.41	894.3	12
Mozambique	471.30	233.78	309.73	233.31	357.68	274.04	293.7	26
Myanmar/Burma	967.00	587.99	709.43	587.57	785.78	652.29	683.8	18

sum emissions 2020 - 2100 - national budgets -	RM-1 const	RM-2 exp	RM-3 lin	RM-4 quadr	RM-5 rad	RM-6 abs	average budget RM 3 - 6	scope average budget
in Mill. t								
Namibia	66.76	52.61	57.18	52.64	60.01	55.02	56.2	13
Nepal	509.83	296.08	364.53	295.79	407.61	332.33	350.1	19
Netherlands	1,472.60	1,604.90	1,564.50	1,607.81	1,536.56	1,582.94	1,573.0	10
New Caledonia	63.27	73.73	70.48	73.88	68.31	71.98	71.2	10
New Zealand	355.99	381.20	373.59	381.87	368.21	377.04	375.2	10
Nicaragua	123.42	81.48	94.93	81.46	103.37	88.60	92.1	16
Niger	300.90	115.48	174.70	115.01	212.17	146.89	162.2	68
Nigeria	3,516.37	2,103.07	2,555.80	2,101.36	2,840.58	2,342.81	2,460.1	18
North Korea	574.81	420.32	470.02	420.42	501.01	446.58	459.5	14
North Macedonia	94.27	92.10	92.89	92.23	93.27	92.49	92.7	11
Norway	415.20	445.81	436.54	446.60	430.03	440.75	438.5	10
Oman	767.83	877.77	843.69	879.48	820.80	859.40	850.8	10
Pakistan	4,250.09	2,952.93	3,369.56	2,952.89	3,630.22	3,173.23	3,281.5	15
Palau	10.51	12.52	11.89	12.54	11.47	12.18	12.0	9
Panama	136.33	120.18	125.46	120.31	128.65	122.94	124.3	12
Papua New Guinea	163.80	106.27	124.72	106.23	136.30	116.03	120.8	16
Paraguay	156.20	114.54	127.94	114.57	136.30	121.62	125.1	14
Peru	835.55	661.26	717.54	661.67	752.37	690.93	705.6	13
Philippines	2,518.02	1,892.92	2,094.22	1,893.63	2,219.49	1,999.21	2,051.6	14
Poland	2,974.77	3,203.89	3,134.38	3,209.57	3,085.70	3,165.96	3,148.9	10
Portugal	504.39	503.08	504.06	503.85	503.96	503.44	503.8	11
Puerto Rico	77.94	55.24	62.53	55.24	67.09	59.09	61.0	15
Qatar	903.10	1,068.07	1,016.66	1,070.27	982.49	1,040.43	1,027.5	9
Réunion	33.81	31.54	32.30	31.58	32.74	31.94	32.1	11
Romania	885.63	865.70	873.00	866.95	876.43	869.31	871.4	11
Russia	16,036.59	17,928.70	17,345.33	17,962.58	16,949.35	17,613.25	17,467.6	10
Rwanda	164.92	62.32	95.09	62.06	115.83	79.70	88.2	74
Saint Helena, Ascension and Tristan da Cunha	0.19	0.18	0.18	0.18	0.18	0.18	0.2	11
Saint Kitts and Nevis	1.96	1.78	1.84	1.78	1.87	1.81	1.8	11
Saint Lucia	4.85	3.95	4.24	3.96	4.42	4.11	4.2	13
Saint Pierre and Miquelon	0.50	0.54	0.52	0.54	0.52	0.53	0.5	10
Saint Vincent and the Grenadines	2.41	1.74	1.95	1.74	2.09	1.85	1.9	14
Samoa	5.35	4.35	4.67	4.35	4.87	4.52	4.6	13
São Tomé and Príncipe	3.82	2.34	2.82	2.34	3.12	2.60	2.7	18
Saudi Arabia	5,213.13	5,958.10	5,727.17	5,969.72	5,572.07	5,833.60	5,775.6	10
Senegal	291.17	173.10	210.92	172.95	234.71	193.13	202.9	19
Serbia and Montenegro	827.84	906.13	882.18	907.80	865.67	893.12	887.2	10
Seychelles	10.88	12.17	11.77	12.20	11.50	11.96	11.9	10
Sierra Leone	104.68	42.11	62.10	41.96	74.74	52.71	57.9	52
Singapore	529.70	579.59	564.32	580.64	553.81	571.30	567.5	10
Slovakia	343.95	359.18	354.73	359.79	351.38	356.70	355.6	10
Slovenia	147.18	156.45	153.67	156.72	151.68	154.92	154.2	10
Solomon Islands	10.24	5.58	7.08	5.58	8.01	6.37	6.8	22
Somalia	197.41	71.13	111.45	70.79	136.98	92.52	102.9	111
South Africa	4,460.39	4,793.16	4,692.36	4,801.62	4,621.55	4,738.11	4,713.4	10
South Korea	5,949.15	6,673.73	6,450.12	6,686.41	6,298.62	6,552.88	6,497.0	10
Spain and Andorra	2,594.30	2,656.08	2,639.33	2,660.38	2,624.91	2,646.34	2,642.7	10
Sri Lanka	462.36	335.01	375.96	335.07	401.52	356.65	367.3	14
Sudan and South Sudan	865.35	449.89	582.80	449.13	666.63	520.32	554.7	24
Suriname	22.10	20.70	21.17	20.72	21.44	20.94	21.1	11
Sweden	481.44	476.34	478.49	477.05	479.19	477.33	478.0	11
Switzerland and Liechtenstein	421.84	420.03	421.07	420.67	421.14	420.45	420.8	11
Syria	436.31	330.23	364.40	330.36	385.65	348.27	357.2	14
Taiwan	2,583.05	2,878.70	2,787.62	2,884.09	2,725.70	2,829.43	2,806.7	10
Tajikistan	180.94	119.30	139.07	119.26	151.47	129.76	134.9	16
Tanzania	842.36	366.16	518.33	365.07	614.53	446.85	486.2	38
Thailand	3,007.13	2,904.84	2,940.62	2,908.90	2,959.28	2,922.92	2,932.9	11
The Gambia	31.70	14.48	19.98	14.44	23.46	17.40	18.8	33
Timor-Leste	24.77	15.49	18.47	15.49	20.34	17.07	17.8	17
Togo	124.25	62.63	82.34	62.51	94.78	73.08	78.2	25
Tonga	2.36	1.68	1.90	1.68	2.03	1.79	1.8	15
Trinidad and Tobago	282.72	328.83	314.50	329.49	304.92	321.11	317.5	10
Tunisia	389.62	346.24	360.44	346.61	368.98	353.67	357.4	12
Turkey	4,348.21	4,383.71	4,377.19	4,390.49	4,366.90	4,378.87	4,378.4	11

sum emissions 2020 - 2100 - national budgets -	RM-1 const	RM-2 exp	RM-3 lin	RM-4 quadr	RM-5 rad	RM-6 abs	average budget RM 3 - 6	scope average budget
in Mill. t								
Turkmenistan	730.20	822.07	793.69	823.64	774.50	806.74	799.6	10
Turks and Caicos Islands	2.20	2.28	2.26	2.28	2.24	2.27	2.3	10
Uganda	604.97	241.80	357.81	240.90	431.20	303.32	333.3	54
Ukraine	2,117.78	2,099.29	2,107.48	2,102.42	2,109.74	2,102.98	2,105.7	11
United Arab Emirates	1,830.74	2,118.93	2,029.40	2,123.16	1,969.52	2,070.72	2,048.2	10
United Kingdom	3,677.47	3,750.24	3,731.19	3,756.24	3,713.77	3,738.93	3,735.0	10
United States	44,263.47	50,265.03	48,407.62	50,362.76	47,156.17	49,262.76	48,797.3	10
Uruguay	96.07	79.24	84.69	79.30	88.04	82.11	83.5	12
Uzbekistan	1,133.10	1,021.45	1,058.15	1,022.61	1,080.04	1,040.62	1,050.4	12
Vanuatu	4.93	2.88	3.53	2.87	3.95	3.22	3.4	19
Venezuela	1,259.13	1,178.81	1,205.71	1,180.34	1,221.14	1,192.72	1,200.0	11
Vietnam	3,834.39	3,604.02	3,681.37	3,608.68	3,725.49	3,643.96	3,664.9	11
Western Sahara	8.92	4.56	5.96	4.55	6.84	5.30	5.7	24
Yemen	445.35	221.79	293.28	221.35	338.41	259.68	278.2	26
Zambia	285.09	151.04	193.93	150.81	220.98	173.77	184.9	23
Zimbabwe	307.36	186.70	225.36	186.57	249.67	207.17	217.2	18
EU27	28,816.41	30,251.82	29,827.66	30,303.09	29,515.35	30,016.97	29,915.8	10
sub sum 2020 - 2100	416,467	417,902	417,903	418,543	417,316	417,770	417,883	
EU27	-28,816	-30,252	-29,828	-30,303	-29,515	-30,017	-29,916	
sum	387,651	387,651	388,075	388,240	387,800	387,753	387,967	
base data: global budget 2020 - 2100*	388,000	388,000	388,000	388,000	388,000	388,000	388,000	
rounding differences	-349	-349	75	240	-200	-247	-33	
difference in %	-0.09%	-0.09%	0.02%	0.06%	-0.05%	-0.06%	-0.01%	
scenario type	RM-1 const	RM-2 exp	RM-3 lin	RM-4 quadr	RM-5 rad	RM-6 abs	average RM 3 - 6	
implicit population weighting vs. emissions**	26.6%	8.7%	14.4%	8.6%	18.0%	11.7%	13.2%	
global normalised change rate 2020		-0.5%	-0.5%	-0.5%	-0.5%			
global change rate 2030 vs. 2010		-58%	-35%	-48%	-43%	-52%	-44%	
global overshoot in Gt	0	0	0	0	0	0		
base data: global CO2 budget 2020 - 2100 incl. LUC and ISA in Gt:							400	

* excl. LUC and ISA

** these figures are only current if their determination was updated before this document was created; Timeframe: 2021 - 2100

national budgets 2020 - 2100 sorted by 'average budget'	RM-1 const	RM-2 exp	RM-3 lin	RM-4 quadr	RM-5 rad	RM-6 abs	average budget RM 3 - 6	scope average budget	share in the global budget
in Mill. t									
China	110,555	118,798	116,300	119,006	114,547	117,434	116,822	10	30.1%
United States	44,263	50,265	48,408	50,363	47,156	49,263	48,797	10	12.6%
India	37,236	30,466	32,657	30,489	34,007	31,620	32,193	13	8.3%
EU27	28,816	30,252	29,828	30,303	29,515	30,017	29,916	10	7.7%
Russia	16,037	17,929	17,345	17,963	16,949	17,613	17,468	10	4.5%
Japan	10,688	11,617	11,334	11,638	11,137	11,463	11,393	10	2.9%
Indonesia	8,423	7,333	7,688	7,340	7,904	7,519	7,613	12	2.0%
Germany	6,621	7,159	6,995	7,171	6,881	7,069	7,029	10	1.8%
Iran	6,563	7,070	6,916	7,082	6,808	6,986	6,948	10	1.8%
South Korea	5,949	6,674	6,450	6,686	6,299	6,553	6,497	10	1.7%
Saudi Arabia	5,213	5,958	5,727	5,970	5,572	5,834	5,776	10	1.5%
Canada	5,220	5,943	5,719	5,954	5,568	5,822	5,766	10	1.5%
Brazil	6,417	5,503	5,801	5,509	5,982	5,660	5,738	12	1.5%
Mexico	5,475	5,234	5,317	5,242	5,362	5,277	5,299	11	1.4%
South Africa	4,460	4,793	4,692	4,802	4,622	4,738	4,713	10	1.2%
Turkey	4,348	4,384	4,377	4,390	4,367	4,379	4,378	11	1.1%
Australia	3,627	4,136	3,978	4,144	3,872	4,051	4,011	10	1.0%
United Kingdom	3,677	3,750	3,731	3,756	3,714	3,739	3,735	10	1.0%
Vietnam	3,834	3,604	3,681	3,609	3,725	3,644	3,665	11	0.9%
Italy, San Marino and the Holy See	3,379	3,469	3,444	3,474	3,423	3,454	3,449	10	0.9%
France and Monaco	3,343	3,360	3,358	3,365	3,352	3,358	3,358	11	0.9%

central premises	
global CO2 budget 2020 - 2100	400 Gt
LUC budget 2020 - 2100	0 Gt
ISA budget 2020 - 2100	-12 Gt
budget 2020 - 2100 to distribute in this tool	388 Gt
minimum annual global emissions	0 Gt
convergence level	0.5 t / capita

properties of the global paths	RM-1 const	RM-2 exp	RM-3 lin	RM-4 quadr	RM-5 rad	RM-6 abs
implicit population weighting vs. emissions	27%	9%	14%	9%	18%	12%
global normalised change rate 2020		-0.5%	-0.5%	-0.5%	-0.5%	
global change rate 2030 vs. 2010	-58%	-35%	-48%	-43%	-52%	-44%
global overshoot in Gt	0	0	0	0	0	0
year emissions neutrality	2062	2036	2045	2040	2051	2041

the Regensburg Model means:
<ul style="list-style-type: none"> ▶ monotonic national paths that are compatible with a given global budget ▶ converging emissions per capita ▶ the implicit weighting of population vs. emissions depends on the chosen <ul style="list-style-type: none"> ▶ global path ▶ convergence level
Download tool for the Regensburg Model: www.save-the-climate.info

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