

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	439%	27%	-100%	-100%	12.05	0.32		
Albania	-40%	-28%	-100%	-100%	5.58	1.90		
Algeria	70%	-35%	-100%	-100%	176.63	4.14		
Angola	91%	-12%	-100%	-100%	24.46	0.77		
Anguilla	225%	-28%	-100%	-100%	0.03	1.82		
Antigua and Barbuda	-15%	-36%	-100%	-100%	0.53	5.08		
Argentina	14%	-35%	-100%	-100%	188.74	4.18		
Armenia	-81%	-28%	-100%	-100%	5.48	1.87		
Aruba	2%	-37%	-100%	-100%	0.85	8.05		
Australia	-8%	-38%	-100%	-100%	413.77	16.49		
Austria	-29%	-37%	-100%	-100%	71.00	8.10		
Azerbaijan	-57%	-34%	-100%	-100%	35.16	3.51		
Bahamas	-49%	-36%	-100%	-100%	2.18	5.41		
Bahrain	85%	-39%	-100%	-100%	36.27	22.15		
Bangladesh	612%	-7%	-100%	-100%	110.16	0.66		
Barbados	-34%	-35%	-100%	-100%	1.30	4.52		
Belarus	-64%	-37%	-100%	-100%	62.66	6.64		
Belgium	-47%	-37%	-100%	-100%	99.35	8.59		
Belize	20%	-22%	-100%	-100%	0.46	1.19		
Benin	1693%	-9%	-100%	-100%	8.14	0.69		
Bermuda	-43%	-37%	-100%	-100%	0.57	9.42		
Bhutan	531%	-28%	-100%	-100%	1.47	1.78		
Bolivia	159%	-30%	-100%	-100%	24.01	2.11		
Bosnia and Herzegovina	-31%	-37%	-100%	-100%	27.11	7.74		
Botswana	79%	-33%	-100%	-100%	7.56	3.18		
Brazil	46%	-30%	-100%	-100%	476.98	2.25		
British Virgin Islands	137%	-36%	-100%	-100%	0.16	5.09		
Brunei	47%	-39%	-100%	-100%	8.01	18.23		
Bulgaria	-65%	-36%	-100%	-100%	42.98	6.15		
Burkina Faso	1573%	81%	-100%	-100%	3.61	0.18		
Burundi	1047%	728%	-100%	-100%	0.33	0.03		
Cabo Verde	999%	-26%	-100%	-100%	0.90	1.61		
Cambodia	3071%	-18%	-100%	-100%	15.97	0.97		
Cameroon	137%	16%	-100%	-100%	9.84	0.39		
Canada	-19%	-38%	-100%	-100%	595.39	15.97		
Cayman Islands	11%	-37%	-100%	-100%	0.49	7.74		
Central African Republic	578%	219%	-100%	-100%	0.40	0.08		
Chad	1307%	358%	-100%	-100%	0.86	0.05		
Chile	77%	-35%	-100%	-100%	90.58	4.94		
China	198%	-37%	-100%	-100%	11,503.86	8.10		
Colombia	27%	-28%	-100%	-100%	92.62	1.86		
Comoros	689%	21%	-100%	-100%	0.30	0.35		
Congo	109%	-21%	-100%	-100%	6.35	1.15		
Cook Islands	-3%	-33%	-100%	-100%	0.06	3.24		
Costa Rica	119%	-28%	-100%	-100%	8.85	1.77		
Côte d'Ivoire	331%	4%	-100%	-100%	12.53	0.49		
Croatia	-52%	-35%	-100%	-100%	18.66	4.51		
Cuba	-53%	-30%	-100%	-100%	26.18	2.28		
Curaçao	-27%	-39%	-100%	-100%	3.18	19.59		
Cyprus	3%	-36%	-100%	-100%	7.16	5.97		
Czechia	-60%	-38%	-100%	-100%	105.11	9.89		
Democratic Republic of the Congo	504%	498%	-100%	-100%	3.48	0.04		
Denmark	-64%	-36%	-100%	-100%	30.27	5.24		
Djibouti	-31%	-19%	-100%	-100%	1.02	1.03		
Dominica	143%	-31%	-100%	-100%	0.18	2.35		
Dominican Republic	140%	-31%	-100%	-100%	28.06	2.55		
Ecuador	58%	-31%	-100%	-100%	40.01	2.34		
Egypt	111%	-32%	-100%	-100%	282.34	2.79		
El Salvador	127%	-22%	-100%	-100%	7.68	1.19		
Equatorial Guinea	3161%	-33%	-100%	-100%	4.30	3.17		
Eritrea	328%	94%	-100%	-100%	0.85	0.16		
Estonia	-72%	-38%	-100%	-100%	16.22	12.44		
Eswatini	30%	-20%	-100%	-100%	1.57	1.11		
Ethiopia	1368%	85%	-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	48%	-38%	-100%	-100%	0.03	11.70		
Faroes	696%	511%	-100%	-100%	0.00	0.04		
Fiji	73%	-32%	-100%	-100%	2.43	2.64		
Finland	-51%	-37%	-100%	-100%	44.20	7.95		
France and Monaco	-46%	-35%	-100%	-100%	319.61	4.88		
French Guiana	-41%	-28%	-100%	-100%	0.52	1.76		
French Polynesia	-21%	-33%	-100%	-100%	0.96	3.32		
Gabon	-32%	-32%	-100%	-100%	6.24	2.96		
Georgia	-79%	-32%	-100%	-100%	11.00	2.82		
Germany	-57%	-37%	-100%	-100%	702.20	8.52		
Ghana	440%	-3%	-100%	-100%	17.74	0.59		
Gibraltar	237%	-39%	-100%	-100%	0.79	22.71		
Greece	-42%	-36%	-100%	-100%	72.50	6.52		
Greenland	10524%	-37%	-100%	-100%	0.52	9.18		
Grenada	26%	-29%	-100%	-100%	0.21	1.96		
Guadeloupe	-20%	-34%	-100%	-100%	1.82	4.05		
Guatemala	347%	-23%	-100%	-100%	22.85	1.30		
Guinea	320%	54%	-100%	-100%	3.07	0.23		
Guinea-Bissau	208%	90%	-100%	-100%	0.32	0.17		
Guyana	94%	-30%	-100%	-100%	1.73	2.20		
Haiti	292%	31%	-100%	-100%	3.45	0.31		
Honduras	298%	-23%	-100%	-100%	12.26	1.28		
Hong Kong	-20%	-36%	-100%	-100%	42.75	5.71		
Hungary	-55%	-36%	-100%	-100%	50.44	5.22		
Iceland	-6%	-38%	-100%	-100%	3.54	10.38		
India	207%	-28%	-100%	-100%	2,563.66	1.87		
Indonesia	171%	-31%	-100%	-100%	645.42	2.39		
Iran	110%	-37%	-100%	-100%	685.92	8.28		
Iraq	91%	-36%	-100%	-100%	205.93	5.10		
Ireland	-30%	-37%	-100%	-100%	36.62	7.55		
Israel and Palestine, State of	24%	-37%	-100%	-100%	69.53	8.10		
Italy, San Marino and the Holy See	-50%	-36%	-100%	-100%	332.86	5.62		
Jamaica	-21%	-33%	-100%	-100%	8.78	3.02		
Japan	-39%	-37%	-100%	-100%	1,139.49	8.98		
Jordan	83%	-32%	-100%	-100%	27.04	2.68		
Kazakhstan	-33%	-38%	-100%	-100%	273.61	14.72		
Kenya	251%	19%	-100%	-100%	19.04	0.36		
Kiribati	298%	0%	-100%	-100%	0.07	0.54		
Kuwait	84%	-39%	-100%	-100%	98.35	23.15		
Kyrgyzstan	-67%	-28%	-100%	-100%	10.94	1.76		
Laos	11399%	-36%	-100%	-100%	41.99	5.94		
Latvia	-73%	-35%	-100%	-100%	8.46	4.43		
Lebanon	204%	-35%	-100%	-100%	28.02	4.62		
Lesotho	646%	30%	-100%	-100%	0.71	0.31		
Liberia	327%	37%	-100%	-100%	1.39	0.28		
Libya	-3%	-37%	-100%	-100%	57.49	8.75		
Lithuania	-75%	-35%	-100%	-100%	13.91	4.85		
Luxembourg	-49%	-38%	-100%	-100%	9.64	16.15		
Macao	58%	-34%	-100%	-100%	2.23	3.47		
Madagascar	1041%	84%	-100%	-100%	4.69	0.17		
Malawi	604%	240%	-100%	-100%	1.52	0.08		
Malaysia	189%	-37%	-100%	-100%	264.68	8.16		
Maldives	1135%	-34%	-100%	-100%	1.70	3.77		
Mali	1613%	70%	-100%	-100%	3.86	0.20		
Malta	-54%	-34%	-100%	-100%	1.64	3.79		
Martinique	-18%	-36%	-100%	-100%	2.04	5.29		
Mauritania	288%	-6%	-100%	-100%	2.95	0.63		
Mauritius	125%	-33%	-100%	-100%	4.00	3.15		
Mexico	11%	-34%	-100%	-100%	487.57	3.68		
Moldova	-82%	-29%	-100%	-100%	8.25	2.05		
Mongolia	81%	-38%	-100%	-100%	38.42	12.13		
Morocco	129%	-29%	-100%	-100%	72.12	1.97		
Mozambique	1043%	21%	-100%	-100%	11.22	0.36		
Myanmar/Burma	673%	-9%	-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	83%	-27%	-100%	-100%	4.32	1.63		
Nepal	1478%	-4%	-100%	-100%	18.04	0.60		
Netherlands	-39%	-37%	-100%	-100%	157.82	9.21		
New Caledonia	188%	-39%	-100%	-100%	7.40	26.12		
New Zealand	-2%	-37%	-100%	-100%	37.31	7.79		
Nicaragua	147%	-16%	-100%	-100%	5.80	0.91		
Niger	494%	168%	-100%	-100%	2.40	0.10		
Nigeria	65%	-7%	-100%	-100%	133.47	0.66		
North Korea	-81%	-23%	-100%	-100%	32.40	1.26		
North Macedonia	-50%	-35%	-100%	-100%	8.63	4.13		
Norway	-27%	-37%	-100%	-100%	43.33	8.02		
Oman	245%	-39%	-100%	-100%	87.39	17.47		
Pakistan	168%	-20%	-100%	-100%	217.96	1.07		
Palau	-64%	-39%	-100%	-100%	1.27	57.11		
Panama	168%	-31%	-100%	-100%	10.67	2.52		
Papua New Guinea	198%	-15%	-100%	-100%	7.35	0.86		
Paraguay	204%	-23%	-100%	-100%	8.95	1.28		
Peru	93%	-27%	-100%	-100%	55.08	1.67		
Philippines	158%	-24%	-100%	-100%	150.10	1.39		
Poland	-47%	-37%	-100%	-100%	312.92	8.23		
Portugal	-29%	-35%	-100%	-100%	47.83	4.66		
Puerto Rico	257%	-21%	-100%	-100%	4.17	1.14		
Qatar	288%	-39%	-100%	-100%	108.57	39.57		
Réunion	89%	-33%	-100%	-100%	2.90	3.26		
Romania	-72%	-35%	-100%	-100%	80.77	4.15		
Russia	-54%	-38%	-100%	-100%	1,777.91	12.36		
Rwanda	513%	193%	-100%	-100%	1.18	0.09		
Saint Helena, Ascension and Tristan da	16%	-35%	-100%	-100%	0.02	4.13		
Saint Kitts and Nevis	115%	-32%	-100%	-100%	0.16	2.84		
Saint Lucia	42%	-28%	-100%	-100%	0.33	1.85		
Saint Pierre and Miquelon	-86%	-37%	-100%	-100%	0.05	8.24		
Saint Vincent and the Grenadines	53%	-22%	-100%	-100%	0.13	1.21		
Samoa	129%	-28%	-100%	-100%	0.36	1.83		
São Tomé and Príncipe	211%	-10%	-100%	-100%	0.15	0.72		
Saudi Arabia	110%	-39%	-100%	-100%	593.33	17.38		
Senegal	325%	-7%	-100%	-100%	10.94	0.65		
Serbia and Montenegro	-16%	-38%	-100%	-100%	89.72	9.58		
Seychelles	139%	-38%	-100%	-100%	1.20	12.58		
Sierra Leone	211%	114%	-100%	-100%	1.11	0.14		
Singapore	12%	-38%	-100%	-100%	56.70	9.66		
Slovakia	-64%	-36%	-100%	-100%	34.65	6.36		
Slovenia	-42%	-37%	-100%	-100%	15.24	7.32		
Solomon Islands	111%	4%	-100%	-100%	0.31	0.49		
Somalia	440%	323%	-100%	-100%	0.93	0.06		
South Africa	-6%	-37%	-100%	-100%	467.90	8.06		
South Korea	51%	-38%	-100%	-100%	663.00	12.91		
Spain and Andorra	-29%	-36%	-100%	-100%	255.83	5.51		
Sri Lanka	372%	-22%	-100%	-100%	25.82	1.23		
Sudan and South Sudan	369%	11%	-100%	-100%	23.60	0.42		
Suriname	-19%	-33%	-100%	-100%	1.90	3.32		
Sweden	-50%	-35%	-100%	-100%	44.68	4.44		
Switzerland and Liechtenstein	-43%	-35%	-100%	-100%	39.74	4.62		
Syria	-40%	-25%	-100%	-100%	26.20	1.42		
Taiwan	41%	-38%	-100%	-100%	283.84	11.95		
Tajikistan	-43%	-16%	-100%	-100%	8.32	0.90		
Tanzania	885%	63%	-100%	-100%	12.76	0.21		
Thailand	90%	-34%	-100%	-100%	269.12	3.88		
The Gambia	487%	43%	-100%	-100%	0.58	0.26		
Timor-Leste	509%	-12%	-100%	-100%	1.03	0.76		
Togo	373%	17%	-100%	-100%	3.09	0.38		
Tonga	20%	-21%	-100%	-100%	0.13	1.15		
Trinidad and Tobago	60%	-39%	-100%	-100%	33.23	24.16		
Tunisia	43%	-32%	-100%	-100%	30.70	2.61		
Turkey	78%	-35%	-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		10%	-38%	-100%	-100%	81.38	13.69
Turks and Caicos Islands		no data	no data	no data	no data	0.22	6.04
Uganda		1915%	119%	-100%	-100%	6.20	0.14
Ukraine		-84%	-35%	-100%	-100%	196.80	4.49
United Arab Emirates		129%	-39%	-100%	-100%	212.83	21.98
United Kingdom		-61%	-36%	-100%	-100%	359.42	5.37
United States		-39%	-38%	-100%	-100%	5,036.05	15.30
Uruguay		23%	-29%	-100%	-100%	6.75	1.94
Uzbekistan		-50%	-32%	-100%	-100%	90.77	2.77
Vanuatu		61%	-5%	-100%	-100%	0.18	0.61
Venezuela		-29%	-33%	-100%	-100%	108.78	3.32
Vietnam		965%	-33%	-100%	-100%	328.18	3.37
Western Sahara		77%	14%	-100%	-100%	0.23	0.40
Yemen		80%	20%	-100%	-100%	10.64	0.36
Zambia		191%	8%	-100%	-100%	8.11	0.45
Zimbabwe		-36%	-9%	-100%	-100%	12.06	0.70
EU27		-51%	-37%	-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	198%	-37%	-100%	-100%	11,504	8.1	31.5%	31%
United States	-39%	-38%	-100%	-100%	5,036	15.3	13.8%	45%
EU27	-51%	-37%	-100%	-100%	2,933	6.6	8.0%	45%
India	207%	-28%	-100%	-100%	2,564	1.9	7.0%	52%
Russia	-54%	-38%	-100%	-100%	1,778	12.4	4.9%	57%
Japan	-39%	-37%	-100%	-100%	1,139	9.0	3.1%	60%
Germany	-57%	-37%	-100%	-100%	702	8.5	1.9%	62%
Iran	110%	-37%	-100%	-100%	686	8.3	1.9%	64%
South Korea	51%	-38%	-100%	-100%	663	12.9	1.8%	66%
Indonesia	171%	-31%	-100%	-100%	645	2.4	1.8%	68%
Canada	-19%	-38%	-100%	-100%	595	16.0	1.6%	69%
Saudi Arabia	110%	-39%	-100%	-100%	593	17.4	1.6%	71%
Mexico	11%	-34%	-100%	-100%	488	3.7	1.3%	72%
Brazil	46%	-30%	-100%	-100%	477	2.2	1.3%	74%
South Africa	-6%	-37%	-100%	-100%	468	8.1	1.3%	75%
Australia	-8%	-38%	-100%	-100%	414	16.5	1.1%	76%
Turkey	78%	-35%	-100%	-100%	414	5.0	1.1%	77%
United Kingdom	-61%	-36%	-100%	-100%	359	5.4	1.0%	78%
Italy, San Marino and the Holy S	-50%	-36%	-100%	-100%	333	5.6	0.9%	79%
Vietnam	965%	-33%	-100%	-100%	328	3.4	0.9%	80%
France and Monaco	-46%	-35%	-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	766.39	351.47	487.52	373.62	563.73	441.13	466.5	39
Albania	111.23	90.22	97.14	91.29	100.94	94.70	96.0	17
Algeria	2,667.56	2,605.49	2,626.81	2,606.71	2,636.09	2,616.61	2,621.6	15
Angola	809.62	491.17	595.66	507.98	653.97	559.78	579.3	24
Anguilla	0.56	0.45	0.48	0.45	0.51	0.47	0.5	17
Antigua and Barbuda	7.55	7.64	7.61	7.63	7.59	7.62	7.6	14
Argentina	2,843.74	2,783.45	2,804.26	2,784.44	2,813.06	2,794.03	2,798.9	15
Armenia	110.97	89.74	96.73	90.82	100.57	94.27	95.6	17
Aruba	11.14	12.04	11.75	11.98	11.57	11.83	11.8	14
Australia	4,978.13	5,729.48	5,485.54	5,684.18	5,342.25	5,561.43	5,518.4	13
Austria	927.55	1,003.07	978.72	998.17	963.96	985.80	981.7	14
Azerbaijan	558.21	527.67	537.87	528.89	543.07	533.82	535.9	15
Bahamas	30.70	31.42	31.20	31.36	31.04	31.24	31.2	14
Bahrain	429.65	502.24	478.65	497.90	464.85	486.05	481.9	13
Bangladesh	4,077.25	2,344.84	2,913.20	2,436.58	3,230.67	2,718.40	2,824.7	26
Barbados	19.08	18.95	19.00	18.94	19.01	18.96	19.0	15
Belarus	850.26	896.59	881.75	893.35	872.47	885.74	883.3	14
Belgium	1,280.84	1,394.93	1,358.09	1,387.62	1,335.89	1,368.94	1,362.6	14
Belize	11.72	8.23	9.37	8.41	10.01	8.98	9.2	20
Benin	290.12	169.51	209.08	175.89	231.18	195.51	202.9	25
Bermuda	7.30	8.02	7.79	7.98	7.65	7.86	7.8	14
Bhutan	30.30	24.14	26.17	24.46	27.29	25.46	25.8	18
Bolivia	455.96	380.73	405.52	384.48	419.07	396.70	401.4	17
Bosnia and Herzegovina	355.91	382.89	374.20	381.12	368.91	376.70	375.2	14
Botswana	123.57	114.36	117.42	114.76	119.02	116.25	116.9	15
Brazil	8,867.08	7,536.34	7,975.10	7,602.13	8,214.20	7,818.16	7,902.4	17
British Virgin Islands	2.34	2.37	2.36	2.37	2.35	2.36	2.4	14
Brunei	96.06	111.16	106.26	110.25	103.38	107.79	106.9	13
Bulgaria	589.59	615.16	607.02	613.28	601.79	609.07	607.8	14
Burkina Faso	385.43	151.29	228.04	163.82	271.09	201.92	216.2	60
Burundi	200.54	62.76	107.92	70.16	133.27	92.58	101.0	311
Cabo Verde	19.40	14.98	16.43	15.21	17.24	15.92	16.2	18
Cambodia	457.07	300.30	351.77	308.53	380.42	334.03	343.7	22
Cameroon	539.07	260.97	352.17	275.79	403.22	321.04	338.1	34
Canada	7,170.07	8,237.11	7,890.73	8,172.69	7,687.14	7,998.36	7,937.2	13
Cayman Islands	6.41	6.90	6.74	6.87	6.65	6.79	6.8	14
Central African Republic	86.52	29.76	48.37	32.81	58.81	42.04	45.5	113
Chad	278.56	91.38	152.73	101.42	187.16	131.89	143.3	167
Chile	1,308.35	1,319.04	1,316.04	1,317.38	1,312.97	1,315.54	1,315.5	15
China	151,637.41	163,875.46	159,928.63	163,080.84	157,537.00	161,076.10	160,405.6	14
Colombia	1,870.84	1,509.37	1,628.35	1,527.69	1,693.74	1,586.41	1,609.0	17
Comoros	17.77	8.35	11.44	8.85	13.17	10.38	11.0	36
Congo	164.37	114.14	130.64	116.77	139.81	124.93	128.0	20
Cook Islands	0.92	0.86	0.88	0.86	0.89	0.87	0.9	15
Costa Rica	181.97	144.61	156.90	146.51	163.67	152.58	154.9	18
Côte d'Ivoire	572.69	298.84	388.65	313.40	438.90	357.95	374.7	30
Croatia	275.94	273.79	274.60	273.68	274.77	274.01	274.3	15
Cuba	482.05	411.00	434.43	414.51	447.19	426.04	430.5	16
Curaçao	37.57	43.72	41.73	43.35	40.56	42.35	42.0	13
Cyprus	98.74	102.59	101.36	102.29	100.57	101.66	101.5	14
Czechia	1,330.94	1,470.82	1,425.56	1,462.05	1,398.54	1,439.17	1,431.3	14
Democratic Republic of the Congo	1,514.05	484.41	821.86	539.67	1,011.30	707.24	770.0	222
Denmark	428.67	436.46	434.07	435.68	432.27	434.37	434.1	14
Djibouti	27.87	18.65	21.68	19.13	23.36	20.63	21.2	21
Dominica	3.19	2.74	2.89	2.77	2.97	2.84	2.9	16
Dominican Republic	498.63	438.27	458.21	441.18	468.98	450.97	454.8	16
Ecuador	726.96	623.89	657.89	628.95	676.37	645.68	652.2	16
Egypt	4,833.01	4,339.31	4,502.67	4,362.46	4,590.10	4,442.49	4,474.4	16
El Salvador	193.78	136.12	155.06	139.13	165.57	148.50	152.1	20
Equatorial Guinea	70.75	65.41	67.18	65.64	68.11	66.51	66.9	16
Eritrea	99.67	38.26	58.39	41.55	69.68	51.54	55.3	65
Estonia	199.85	225.48	217.17	223.91	212.26	219.72	218.3	13
Eswatini	41.36	28.41	32.66	29.09	35.03	31.19	32.0	20
Ethiopia	2,083.25	813.00	1,229.39	881.00	1,462.92	1,087.71	1,165.3	61

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	0.42	0.48	0.46	0.47	0.45	0.46	0.5	13
Faroese	0.87	0.28	0.47	0.31	0.58	0.40	0.4	227
Fiji	42.47	37.64	39.24	37.87	40.09	38.65	39.0	16
Finland	580.20	625.95	611.20	622.96	602.25	615.47	613.0	14
France and Monaco	4,611.33	4,639.70	4,632.17	4,634.36	4,623.08	4,629.38	4,629.7	14
French Guiana	10.76	8.54	9.27	8.65	9.67	9.01	9.2	18
French Polynesia	15.50	14.48	14.82	14.52	14.99	14.69	14.8	15
Gabon	104.62	95.22	98.34	95.65	99.99	97.18	97.8	16
Georgia	187.62	168.84	175.06	169.72	178.38	172.76	174.0	16
Germany	9,107.72	9,905.54	9,647.97	9,854.30	9,492.64	9,723.66	9,679.6	14
Ghana	707.20	391.90	495.33	408.63	553.14	459.92	479.3	27
Gibraltar	9.29	10.88	10.36	10.79	10.06	10.53	10.4	13
Greece	975.23	1,026.33	1,009.99	1,022.72	999.70	1,014.32	1,011.7	14
Greenland	6.68	7.32	7.11	7.28	6.99	7.18	7.1	14
Grenada	4.18	3.42	3.67	3.46	3.81	3.58	3.6	17
Guadeloupe	27.50	26.74	27.00	26.76	27.12	26.88	26.9	15
Guatemala	548.74	396.35	446.42	404.26	474.18	429.04	438.5	19
Guinea	261.71	109.09	159.12	117.25	187.17	142.09	151.4	49
Guinea-Bissau	36.79	14.22	21.62	15.43	25.77	19.10	20.5	63
Guyana	32.31	27.29	28.95	27.54	29.85	28.36	28.7	17
Haiti	229.02	103.16	144.42	109.88	167.54	130.36	138.1	40
Honduras	296.87	213.46	240.86	217.79	256.06	231.35	236.5	19
Hong Kong	590.17	609.13	603.15	607.60	599.15	604.47	603.6	14
Hungary	721.38	733.97	730.12	732.69	727.19	730.59	730.1	14
Iceland	44.56	49.47	47.88	49.17	46.93	48.36	48.1	14
India	51,507.81	41,635.15	44,884.85	42,134.87	46,670.60	43,738.70	44,357.3	17
Indonesia	11,651.36	10,064.52	10,588.14	10,142.06	10,872.33	10,399.57	10,500.5	16
Iran	9,003.70	9,755.56	9,512.96	9,706.99	9,366.29	9,583.85	9,542.5	14
Iraq	2,951.76	2,991.31	2,979.49	2,986.73	2,969.71	2,980.06	2,979.0	14
Ireland	483.68	518.72	507.44	516.40	500.55	510.66	508.8	14
Israel and Palestine, State of	908.35	982.31	958.46	977.51	944.00	965.39	961.3	14
Italy, San Marino and the Holy See	4,655.38	4,792.42	4,749.36	4,781.08	4,720.10	4,758.41	4,752.2	14
Jamaica	145.75	133.28	137.41	133.84	139.60	135.86	136.7	16
Japan	14,689.98	16,067.51	15,622.39	15,979.92	15,355.07	15,754.44	15,678.0	14
Jordan	469.98	418.13	435.27	420.59	444.49	429.00	432.3	16
Kazakhstan	3,337.48	3,810.33	3,656.89	3,781.67	3,566.55	3,704.41	3,677.4	13
Kenya	1,096.59	519.77	708.91	550.53	814.83	644.38	679.7	36
Kiribati	2.77	1.49	1.91	1.56	2.14	1.77	1.8	28
Kuwait	1,152.26	1,351.40	1,286.68	1,339.53	1,248.84	1,307.01	1,295.5	13
Kyrgyzstan	227.43	180.78	196.13	183.16	204.58	190.74	193.7	18
Laos	584.67	606.81	599.78	605.12	595.20	601.47	600.4	14
Latvia	125.12	123.73	124.23	123.71	124.39	123.92	124.1	15
Lebanon	412.05	410.64	411.26	410.38	411.18	410.58	410.8	15
Lesotho	46.78	21.13	29.54	22.50	34.25	26.67	28.2	40
Liberia	100.00	43.94	62.32	46.93	72.62	56.05	59.5	43
Libya	743.09	810.56	788.77	806.25	775.66	795.21	791.5	14
Lithuania	202.26	203.31	203.04	203.08	202.68	202.90	202.9	15
Luxembourg	115.21	132.58	126.94	131.53	123.63	128.69	127.7	13
Macao	35.55	33.53	34.20	33.61	34.55	33.94	34.1	15
Madagascar	510.37	199.35	301.30	216.00	358.48	266.61	285.6	61
Malawi	352.22	119.96	196.09	132.42	238.81	170.22	184.4	121
Malaysia	3,478.63	3,762.82	3,671.16	3,744.40	3,615.65	3,697.85	3,682.3	14
Maldives	26.49	25.41	25.77	25.44	25.95	25.62	25.7	15
Mali	377.35	151.40	225.47	163.49	267.00	200.25	214.1	55
Malta	25.44	24.42	24.77	24.46	24.93	24.62	24.7	15
Martinique	28.86	29.43	29.25	29.38	29.12	29.28	29.3	14
Mauritania	111.68	63.37	79.22	65.93	88.07	73.79	76.7	26
Mauritius	65.52	60.46	62.14	60.69	63.03	61.51	61.8	15
Mexico	7,567.13	7,221.99	7,337.81	7,234.72	7,395.41	7,290.33	7,314.6	15
Moldova	160.05	132.76	141.75	134.13	146.67	138.56	140.3	17
Mongolia	478.82	538.57	519.20	534.90	507.74	525.13	521.7	14
Morocco	1,417.09	1,161.75	1,245.83	1,174.61	1,291.95	1,216.08	1,232.1	17
Mozambique	657.36	309.79	423.76	328.33	487.59	384.88	406.1	36
Myanmar/Burma	1,343.79	789.50	971.36	818.82	1,072.91	908.99	943.0	25

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	92.44	71.78	78.57	72.84	82.32	76.19	77.5	18
Nepal	709.03	396.37	498.93	412.95	556.25	463.81	483.0	27
Netherlands	2,024.79	2,220.81	2,157.45	2,208.40	2,119.46	2,176.32	2,165.4	14
New Caledonia	86.64	102.06	97.05	101.14	94.12	98.63	97.7	13
New Zealand	490.15	527.61	515.54	525.15	508.19	519.01	517.0	14
Nicaragua	171.52	110.21	130.33	113.43	141.55	123.40	127.2	22
Niger	420.72	149.31	238.27	163.86	288.19	208.03	224.6	94
Nigeria	4,890.05	2,822.99	3,501.15	2,932.43	3,879.93	3,268.68	3,395.5	25
North Korea	796.17	570.47	644.62	582.21	685.76	618.91	632.9	20
North Macedonia	130.05	127.00	128.05	127.06	128.51	127.55	127.8	15
Norway	570.18	615.64	600.98	612.68	592.09	605.23	602.7	14
Oman	1,051.79	1,214.03	1,161.34	1,204.27	1,130.43	1,177.77	1,168.5	13
Pakistan	5,892.48	3,996.68	4,619.18	4,095.91	4,965.42	4,404.20	4,521.2	21
Palau	14.38	17.34	16.38	17.17	15.82	16.68	16.5	13
Panama	188.57	165.08	172.83	166.21	177.03	170.02	171.5	16
Papua New Guinea	227.40	143.28	170.89	147.71	186.28	161.40	166.6	23
Paraguay	216.74	155.88	175.88	159.05	186.97	168.94	172.7	19
Peru	1,159.33	905.00	988.65	918.00	1,034.79	959.33	975.2	18
Philippines	3,489.63	2,576.71	2,876.72	2,623.95	3,042.90	2,772.36	2,829.0	19
Poland	4,089.35	4,429.41	4,319.70	4,407.41	4,253.33	4,351.71	4,333.0	14
Portugal	696.35	695.14	695.80	694.64	695.45	694.78	695.2	15
Puerto Rico	108.09	74.91	85.81	76.65	91.86	82.04	84.1	20
Qatar	1,239.00	1,482.13	1,403.05	1,467.77	1,356.99	1,428.08	1,414.0	13
Réunion	46.76	43.48	44.57	43.62	45.14	44.15	44.4	15
Romania	1,220.34	1,192.36	1,201.97	1,192.90	1,206.14	1,197.36	1,199.6	15
Russia	22,018.45	24,814.75	23,908.21	24,643.34	23,372.05	24,186.23	24,027.5	14
Rwanda	230.65	80.46	129.69	88.52	157.31	112.96	122.1	103
Saint Helena, Ascension and Tristan da Cunha	0.26	0.25	0.25	0.25	0.25	0.25	0.3	15
Saint Kitts and Nevis	2.71	2.44	2.53	2.45	2.58	2.50	2.5	16
Saint Lucia	6.72	5.41	5.84	5.48	6.08	5.69	5.8	17
Saint Pierre and Miquelon	0.68	0.74	0.72	0.74	0.71	0.73	0.7	14
Saint Vincent and the Grenadines	3.34	2.36	2.68	2.41	2.86	2.57	2.6	20
Samoa	7.40	5.94	6.42	6.01	6.68	6.25	6.3	17
São Tomé and Príncipe	5.32	3.16	3.87	3.27	4.26	3.62	3.8	24
Saudi Arabia	7,141.92	8,241.31	7,884.31	8,175.17	7,674.79	7,995.58	7,932.5	13
Senegal	405.08	232.39	289.04	241.53	320.69	269.63	280.2	26
Serbia and Montenegro	1,139.92	1,255.87	1,218.37	1,248.57	1,195.94	1,229.60	1,223.1	14
Seychelles	14.92	16.83	16.21	16.72	15.85	16.40	16.3	14
Sierra Leone	146.30	54.72	84.74	59.63	101.58	74.53	80.1	72
Singapore	726.70	800.56	776.67	795.92	762.39	783.83	779.7	14
Slovakia	473.41	496.22	488.93	494.58	484.32	490.83	489.7	14
Slovenia	202.56	216.36	211.93	215.44	209.20	213.18	212.4	14
Solomon Islands	14.26	7.45	9.68	7.81	10.93	8.92	9.3	30
Somalia	276.20	91.33	151.92	101.25	185.93	131.34	142.6	154
South Africa	6,132.85	6,626.94	6,467.61	6,594.82	6,371.01	6,513.88	6,486.8	14
South Korea	8,168.57	9,239.14	8,891.97	9,173.73	8,686.92	8,998.74	8,937.8	13
Spain and Andorra	3,580.19	3,674.41	3,644.95	3,666.30	3,624.51	3,650.67	3,646.6	14
Sri Lanka	641.26	455.20	516.32	464.89	550.25	495.14	506.6	20
Sudan and South Sudan	1,206.69	598.81	798.16	631.18	909.74	730.09	767.3	33
Suriname	30.54	28.51	29.19	28.60	29.54	28.93	29.1	15
Sweden	663.06	656.25	658.73	656.08	659.44	657.14	657.8	15
Switzerland and Liechtenstein	581.76	579.69	580.59	579.33	580.49	579.62	580.0	15
Syria	604.10	449.20	500.11	457.21	528.30	482.39	492.0	19
Taiwan	3,541.87	3,978.90	3,837.25	3,952.04	3,753.38	3,880.59	3,855.8	14
Tajikistan	250.83	160.71	190.29	165.45	206.77	180.11	185.7	22
Tanzania	1,176.45	479.50	707.98	516.79	836.08	630.20	672.8	53
Thailand	4,143.69	3,997.91	4,047.18	4,002.53	4,070.74	4,025.95	4,036.6	15
The Gambia	44.26	19.05	27.31	20.39	31.94	24.50	26.0	45
Timor-Leste	34.42	20.85	25.30	21.56	27.78	23.77	24.6	24
Togo	173.24	83.07	112.64	87.87	129.19	102.55	108.1	35
Tonga	3.27	2.27	2.60	2.33	2.78	2.49	2.5	20
Trinidad and Tobago	388.13	456.12	434.02	452.07	421.11	440.97	437.0	13
Tunisia	538.12	475.07	495.90	478.09	507.14	488.32	492.4	16
Turkey	5,980.57	6,038.66	6,021.92	6,030.60	6,006.21	6,020.68	6,019.9	15



<b>sum emissions 2020 - 2100 - national budgets -</b>	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	1,000.87	1,136.57	1,092.55	1,128.31	1,066.59	1,106.13	1,098.4	13
Turks and Caicos Islands	3.03	3.15	3.11	3.14	3.09	3.12	3.1	14
Uganda	845.67	314.09	488.33	342.57	586.08	429.07	461.5	74
Ukraine	2,915.42	2,891.25	2,900.26	2,890.20	2,902.32	2,893.91	2,896.7	15
United Arab Emirates	2,510.13	2,935.19	2,797.07	2,909.82	2,716.27	2,840.40	2,815.9	13
United Kingdom	5,070.89	5,182.74	5,148.08	5,172.44	5,123.14	5,153.83	5,149.4	14
United States	60,825.75	69,686.41	66,810.53	69,150.37	65,118.86	67,702.62	67,195.6	13
Uruguay	133.05	108.51	116.59	109.74	121.02	113.73	115.3	17
Uzbekistan	1,562.30	1,400.19	1,453.82	1,407.82	1,482.55	1,434.10	1,444.6	16
Vanuatu	6.85	3.85	4.84	4.01	5.39	4.50	4.7	27
Venezuela	1,741.72	1,625.73	1,664.34	1,630.66	1,684.37	1,649.41	1,657.2	15
Vietnam	5,283.15	4,950.74	5,061.50	4,964.68	5,118.69	5,018.41	5,040.8	15
Western Sahara	12.45	6.06	8.16	6.40	9.33	7.44	7.8	34
Yemen	620.80	293.67	400.94	311.11	461.01	364.34	384.3	36
Zambia	397.22	201.09	265.41	211.53	301.41	243.44	255.4	31
Zimbabwe	427.30	250.84	308.74	260.17	341.06	288.88	299.7	25
EU27	39,685.14	41,829.92	41,143.30	41,679.72	40,713.04	41,327.34	41,215.8	14
sub sum 2020 - 2100	573,321	576,006	575,345	575,391	574,373	574,909	575,005	
EU27	-39,685	-41,830	-41,143	-41,680	-40,713	-41,327	-41,216	
<b>sum</b>	<b>533,636</b>	<b>534,176</b>	<b>534,202</b>	<b>533,711</b>	<b>533,660</b>	<b>533,582</b>	<b>533,789</b>	
base data: global budget 2020 - 2100*	534,000	534,000	534,000	534,000	534,000	534,000	534,000	
rounding differences	-364	176	202	-289	-340	-418	-211	
difference in %	-0.07%	0.03%	0.04%	-0.05%	-0.06%	-0.08%	-0.04%	
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**	<b>26.3%</b>	<b>7.8%</b>	<b>13.8%</b>	<b>8.8%</b>	<b>17.3%</b>	<b>11.8%</b>	<b>12.9%</b>	
global normalised change rate 2020		-0.5%	-0.5%	-0.5%	-0.5%			
global change rate 2030 vs. 2010		-45%	-10%	-26%	-16%	-34%	-28%	
global overshoot in Gt	0	0	0	0	0	0		
base data: global CO2 budget 2020 - 2100 incl. LUC and ISA in Gt:							<b>550</b>	

\* excl. LUC and ISA

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

<b>national budgets 2020 - 2100</b> 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	151,637	163,875	159,929	163,081	157,537	161,076	160,406	14	30.1%
United States	60,826	69,686	66,811	69,150	65,119	67,703	67,196	13	12.6%
India	51,508	41,635	44,885	42,135	46,671	43,739	44,357	17	8.3%
EU27	39,685	41,830	41,143	41,680	40,713	41,327	41,216	14	7.7%
Russia	22,018	24,815	23,908	24,643	23,372	24,186	24,027	14	4.5%
Japan	14,690	16,068	15,622	15,980	15,355	15,754	15,678	14	2.9%
Indonesia	11,651	10,065	10,588	10,142	10,872	10,400	10,501	16	2.0%
Germany	9,108	9,906	9,648	9,854	9,493	9,724	9,680	14	1.8%
Iran	9,004	9,756	9,513	9,707	9,366	9,584	9,543	14	1.8%
South Korea	8,169	9,239	8,892	9,174	8,687	8,999	8,938	13	1.7%
Canada	7,170	8,237	7,891	8,173	7,687	7,998	7,937	13	1.5%
Saudi Arabia	7,142	8,241	7,884	8,175	7,675	7,996	7,932	13	1.5%
Brazil	8,867	7,536	7,975	7,602	8,214	7,818	7,902	17	1.5%
Mexico	7,567	7,222	7,338	7,235	7,395	7,290	7,315	15	1.4%
South Africa	6,133	6,627	6,468	6,595	6,371	6,514	6,487	14	1.2%
Turkey	5,981	6,039	6,022	6,031	6,006	6,021	6,020	15	1.1%
Australia	4,978	5,729	5,486	5,684	5,342	5,561	5,518	13	1.0%
United Kingdom	5,071	5,183	5,148	5,172	5,123	5,154	5,149	14	1.0%
Vietnam	5,283	4,951	5,061	4,965	5,119	5,018	5,041	15	0.9%
Italy, San Marino and the Holy See	4,655	4,792	4,749	4,781	4,720	4,758	4,752	14	0.9%
France and Monaco	4,611	4,640	4,632	4,634	4,623	4,629	4,630	14	0.9%

<b>central premises</b>	
global CO2 budget 2020 - 2100	550 Gt
LUC budget 2020 - 2100	0 Gt
ISA budget 2020 - 2100	-17 Gt
budget 2020 - 2100 to distribute in this tool	534 Gt
minimum annual global emissions	0 Gt
convergence level	0.5 t / capita

<b>properties of the global paths</b>	RM-1	RM-2	RM-3	RM-4	RM-5	RM-6
	const	exp	lin	quadr	rad	abs
implicit population weighting vs. emissions	26%	8%	14%	9%	17%	12%
global normalised change rate 2020		-0.5%	-0.5%	-0.5%	-0.5%	
global change rate 2030 vs. 2010	-45%	-10%	-26%	-16%	-34%	-28%
global overshoot in Gt	0	0	0	0	0	0
year emissions neutrality	2079	2043	2055	2047	2063	2049

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

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