

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	402%	18%	558%	55%	12.05	0.32		
Albania	-37%	-24%	-78%	-74%	5.58	1.90		
Algeria	84%	-29%	-69%	-88%	176.63	4.14		
Angola	92%	-12%	41%	-35%	24.46	0.77		
Anguilla	243%	-24%	24%	-72%	0.03	1.82		
Antigua and Barbuda	-8%	-30%	-87%	-90%	0.53	5.08		
Argentina	24%	-29%	-79%	-88%	188.74	4.18		
Armenia	-80%	-24%	-93%	-73%	5.48	1.87		
Aruba	12%	-31%	-90%	-94%	0.85	8.05		
Australia	1%	-32%	-95%	-97%	413.77	16.49		
Austria	-22%	-31%	-93%	-94%	71.00	8.10		
Azerbaijan	-54%	-28%	-91%	-86%	35.16	3.51		
Bahamas	-45%	-30%	-93%	-91%	2.18	5.41		
Bahrain	105%	-32%	-93%	-98%	36.27	22.15		
Bangladesh	605%	-8%	485%	-24%	110.16	0.66		
Barbados	-28%	-29%	-89%	-89%	1.30	4.52		
Belarus	-60%	-31%	-96%	-92%	62.66	6.64		
Belgium	-41%	-31%	-95%	-94%	99.35	8.59		
Belize	24%	-19%	-35%	-58%	0.46	1.19		
Benin	1683%	-9%	1324%	-27%	8.14	0.69		
Bermuda	-37%	-31%	-95%	-95%	0.57	9.42		
Bhutan	565%	-24%	146%	-72%	1.47	1.78		
Bolivia	175%	-25%	-13%	-76%	24.01	2.11		
Bosnia and Herzegovina	-24%	-31%	-93%	-94%	27.11	7.74		
Botswana	93%	-28%	-58%	-84%	7.56	3.18		
Brazil	55%	-26%	-53%	-78%	476.98	2.25		
British Virgin Islands	158%	-30%	-64%	-90%	0.16	5.09		
Brunei	62%	-32%	-93%	-97%	8.01	18.23		
Bulgaria	-62%	-30%	-96%	-92%	42.98	6.15		
Burkina Faso	1377%	60%	2499%	182%	3.61	0.18		
Burundi	811%	558%	2373%	1685%	0.33	0.03		
Cabo Verde	1052%	-23%	365%	-69%	0.90	1.61		
Cambodia	3131%	-16%	1889%	-48%	15.97	0.97		
Cameroon	124%	10%	164%	29%	9.84	0.39		
Canada	-11%	-32%	-96%	-97%	595.39	15.97		
Cayman Islands	21%	-31%	-89%	-94%	0.49	7.74		
Central African Republic	466%	166%	1179%	501%	0.40	0.08		
Chad	1045%	273%	2740%	824%	0.86	0.05		
Chile	93%	-30%	-72%	-90%	90.58	4.94		
China	227%	-31%	-71%	-94%	11,503.86	8.10		
Colombia	34%	-24%	-52%	-73%	92.62	1.86		
Comoros	641%	14%	821%	41%	0.30	0.35		
Congo	115%	-19%	16%	-56%	6.35	1.15		
Cook Islands	5%	-28%	-77%	-85%	0.06	3.24		
Costa Rica	130%	-24%	-14%	-72%	8.85	1.77		
Côte d'Ivoire	316%	1%	322%	2%	12.53	0.49		
Croatia	-48%	-29%	-92%	-89%	18.66	4.51		
Cuba	-50%	-26%	-85%	-78%	26.18	2.28		
Curaçao	-19%	-32%	-97%	-97%	3.18	19.59		
Cyprus	12%	-30%	-86%	-92%	7.16	5.97		
Czechia	-56%	-31%	-97%	-95%	105.11	9.89		
Democratic Republic of the Congo	385%	381%	1163%	1150%	3.48	0.04		
Denmark	-60%	-30%	-95%	-90%	30.27	5.24		
Djibouti	-29%	-17%	-58%	-51%	1.02	1.03		
Dominica	159%	-26%	-25%	-79%	0.18	2.35		
Dominican Republic	156%	-27%	-31%	-80%	28.06	2.55		
Ecuador	68%	-26%	-51%	-79%	40.01	2.34		
Egypt	126%	-27%	-44%	-82%	282.34	2.79		
El Salvador	135%	-19%	22%	-58%	7.68	1.19		
Equatorial Guinea	3410%	-28%	670%	-84%	4.30	3.17		
Eritrea	274%	70%	586%	212%	0.85	0.16		
Estonia	-69%	-32%	-98%	-96%	16.22	12.44		
Eswatini	33%	-18%	-26%	-55%	1.57	1.11		
Ethiopia	1193%	63%	2200%	189%	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	63%	-32%	-90%	-96%	0.03	11.70		
Faroes	539%	391%	1569%	1182%	0.00	0.04		
Fiji	85%	-27%	-52%	-81%	2.43	2.64		
Finland	-47%	-31%	-95%	-94%	44.20	7.95		
France and Monaco	-42%	-30%	-91%	-90%	319.61	4.88		
French Guiana	-38%	-24%	-77%	-72%	0.52	1.76		
French Polynesia	-15%	-28%	-82%	-85%	0.96	3.32		
Gabon	-27%	-27%	-83%	-83%	6.24	2.96		
Georgia	-77%	-27%	-94%	-82%	11.00	2.82		
Germany	-53%	-31%	-96%	-94%	702.20	8.52		
Ghana	431%	-5%	375%	-15%	17.74	0.59		
Gibraltar	273%	-32%	-88%	-98%	0.79	22.71		
Greece	-36%	-31%	-93%	-92%	72.50	6.52		
Greenland	11568%	-31%	826%	-95%	0.52	9.18		
Grenada	33%	-25%	-55%	-74%	0.21	1.96		
Guadeloupe	-14%	-29%	-85%	-88%	1.82	4.05		
Guatemala	364%	-20%	125%	-61%	22.85	1.30		
Guinea	279%	39%	495%	118%	3.07	0.23		
Guinea-Bissau	171%	67%	390%	203%	0.32	0.17		
Guyana	106%	-26%	-37%	-77%	1.73	2.20		
Haiti	264%	21%	391%	63%	3.45	0.31		
Honduras	312%	-20%	102%	-61%	12.26	1.28		
Hong Kong	-13%	-30%	-89%	-91%	42.75	5.71		
Hungary	-51%	-30%	-93%	-90%	50.44	5.22		
Iceland	3%	-31%	-93%	-95%	3.54	10.38		
India	224%	-24%	15%	-73%	2,563.66	1.87		
Indonesia	190%	-26%	-18%	-79%	645.42	2.39		
Iran	131%	-31%	-80%	-94%	685.92	8.28		
Iraq	108%	-30%	-71%	-90%	205.93	5.10		
Ireland	-23%	-31%	-93%	-93%	36.62	7.55		
Israel and Palestine, State of	36%	-31%	-88%	-94%	69.53	8.10		
Italy, San Marino and the Holy See	-46%	-30%	-93%	-91%	332.86	5.62		
Jamaica	-16%	-28%	-81%	-83%	8.78	3.02		
Japan	-33%	-31%	-95%	-94%	1,139.49	8.98		
Jordan	96%	-27%	-50%	-81%	27.04	2.68		
Kazakhstan	-26%	-32%	-96%	-97%	273.61	14.72		
Kenya	230%	12%	304%	37%	19.04	0.36		
Kiribati	288%	-2%	269%	-7%	0.07	0.54		
Kuwait	104%	-32%	-93%	-98%	98.35	23.15		
Kyrgyzstan	-65%	-24%	-87%	-72%	10.94	1.76		
Laos	12453%	-30%	1419%	-92%	41.99	5.94		
Latvia	-71%	-29%	-95%	-89%	8.46	4.43		
Lebanon	230%	-30%	-49%	-89%	28.02	4.62		
Lesotho	592%	21%	832%	62%	0.71	0.31		
Liberia	293%	26%	458%	79%	1.39	0.28		
Libya	6%	-31%	-91%	-94%	57.49	8.75		
Lithuania	-72%	-30%	-96%	-90%	13.91	4.85		
Luxembourg	-44%	-32%	-97%	-97%	9.64	16.15		
Macao	71%	-28%	-66%	-86%	2.23	3.47		
Madagascar	905%	62%	1686%	188%	4.69	0.17		
Malawi	484%	182%	1246%	551%	1.52	0.08		
Malaysia	217%	-31%	-72%	-94%	264.68	8.16		
Maldives	1235%	-29%	149%	-87%	1.70	3.77		
Mali	1425%	52%	2475%	156%	3.86	0.20		
Malta	-50%	-29%	-91%	-87%	1.64	3.79		
Martinique	-10%	-30%	-88%	-91%	2.04	5.29		
Mauritania	284%	-7%	226%	-21%	2.95	0.63		
Mauritius	142%	-28%	-47%	-84%	4.00	3.15		
Mexico	20%	-29%	-77%	-86%	487.57	3.68		
Moldova	-81%	-25%	-94%	-76%	8.25	2.05		
Mongolia	99%	-32%	-88%	-96%	38.42	12.13		
Morocco	142%	-25%	-18%	-75%	72.12	1.97		
Mozambique	975%	13%	1230%	40%	11.22	0.36		
Myanmar/Burma	669%	-9%	509%	-28%	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	92%	-23%	-23%	-69%	4.32	1.63		
Nepal	1452%	-6%	1267%	-17%	18.04	0.60		
Netherlands	-33%	-31%	-95%	-95%	157.82	9.21		
New Caledonia	219%	-32%	-91%	-98%	7.40	26.12		
New Zealand	8%	-31%	-90%	-94%	37.31	7.79		
Nicaragua	150%	-15%	62%	-45%	5.80	0.91		
Niger	403%	127%	971%	384%	2.40	0.10		
Nigeria	64%	-8%	35%	-25%	133.47	0.66		
North Korea	-80%	-20%	-90%	-60%	32.40	1.26		
North Macedonia	-45%	-29%	-91%	-88%	8.63	4.13		
Norway	-20%	-31%	-93%	-94%	43.33	8.02		
Oman	281%	-32%	-84%	-97%	87.39	17.47		
Pakistan	175%	-18%	57%	-53%	217.96	1.07		
Palau	-60%	-33%	-99%	-99%	1.27	57.11		
Panama	186%	-27%	-23%	-80%	10.67	2.52		
Papua New Guinea	201%	-14%	104%	-41%	7.35	0.86		
Paraguay	215%	-20%	54%	-61%	8.95	1.28		
Peru	103%	-23%	-21%	-70%	55.08	1.67		
Philippines	169%	-21%	23%	-64%	150.10	1.39		
Poland	-42%	-31%	-95%	-94%	312.92	8.23		
Portugal	-23%	-30%	-88%	-89%	47.83	4.66		
Puerto Rico	268%	-19%	98%	-56%	4.17	1.14		
Qatar	330%	-33%	-92%	-99%	108.57	39.57		
Réunion	104%	-28%	-56%	-85%	2.90	3.26		
Romania	-69%	-29%	-95%	-88%	80.77	4.15		
Russia	-49%	-32%	-97%	-96%	1,777.91	12.36		
Rwanda	415%	146%	1033%	441%	1.18	0.09		
Saint Helena, Ascension and Tristan da	26%	-29%	-78%	-88%	0.02	4.13		
Saint Kitts and Nevis	131%	-27%	-44%	-82%	0.16	2.84		
Saint Lucia	50%	-24%	-47%	-73%	0.33	1.85		
Saint Pierre and Miquelon	-84%	-31%	-99%	-94%	0.05	8.24		
Saint Vincent and the Grenadines	58%	-19%	-19%	-59%	0.13	1.21		
Samoa	142%	-24%	-13%	-73%	0.36	1.83		
São Tomé and Príncipe	210%	-10%	139%	-31%	0.15	0.72		
Saudi Arabia	132%	-32%	-90%	-97%	593.33	17.38		
Senegal	320%	-8%	249%	-23%	10.94	0.65		
Serbia and Montenegro	-7%	-31%	-93%	-95%	89.72	9.58		
Seychelles	163%	-32%	-85%	-96%	1.20	12.58		
Sierra Leone	169%	85%	419%	257%	1.11	0.14		
Singapore	23%	-31%	-91%	-95%	56.70	9.66		
Slovakia	-60%	-30%	-95%	-92%	34.65	6.36		
Slovenia	-37%	-31%	-94%	-93%	15.24	7.32		
Solomon Islands	104%	1%	107%	2%	0.31	0.49		
Somalia	342%	246%	977%	744%	0.93	0.06		
South Africa	3%	-31%	-91%	-94%	467.90	8.06		
South Korea	67%	-32%	-91%	-96%	663.00	12.91		
Spain and Andorra	-23%	-30%	-90%	-91%	255.83	5.51		
Sri Lanka	388%	-20%	148%	-59%	25.82	1.23		
Sudan and South Sudan	348%	6%	400%	18%	23.60	0.42		
Suriname	-13%	-28%	-82%	-85%	1.90	3.32		
Sweden	-46%	-29%	-91%	-89%	44.68	4.44		
Switzerland and Liechtenstein	-38%	-29%	-90%	-89%	39.74	4.62		
Syria	-38%	-21%	-72%	-65%	26.20	1.42		
Taiwan	56%	-32%	-90%	-96%	283.84	11.95		
Tajikistan	-42%	-15%	-62%	-44%	8.32	0.90		
Tanzania	782%	46%	1344%	139%	12.76	0.21		
Thailand	105%	-29%	-63%	-87%	269.12	3.88		
The Gambia	436%	31%	691%	93%	0.58	0.26		
Timor-Leste	510%	-11%	352%	-34%	1.03	0.76		
Togo	347%	11%	436%	33%	3.09	0.38		
Tonga	23%	-19%	-34%	-56%	0.13	1.15		
Trinidad and Tobago	77%	-32%	-95%	-98%	33.23	24.16		
Tunisia	53%	-27%	-60%	-81%	30.70	2.61		
Turkey	93%	-30%	-72%	-90%	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		21%	-32%	-93%	-96%	81.38	13.69
Turks and Caicos Islands		no data	no data	no data	no data	0.22	6.04
Uganda		1639%	89%	3296%	269%	6.20	0.14
Ukraine		-82%	-29%	-97%	-89%	196.80	4.49
United Arab Emirates		153%	-32%	-91%	-98%	212.83	21.98
United Kingdom		-57%	-30%	-94%	-91%	359.42	5.37
United States		-32%	-32%	-97%	-97%	5,036.05	15.30
Uruguay		30%	-25%	-55%	-74%	6.75	1.94
Uzbekistan		-46%	-27%	-87%	-82%	90.77	2.77
Vanuatu		59%	-6%	38%	-18%	0.18	0.61
Venezuela		-24%	-28%	-84%	-85%	108.78	3.32
Vietnam		1049%	-28%	138%	-85%	328.18	3.37
Western Sahara		69%	8%	95%	25%	0.23	0.40
Yemen		70%	13%	109%	39%	10.64	0.36
Zambia		180%	4%	201%	12%	8.11	0.45
Zimbabwe		-36%	-9%	-50%	-28%	12.06	0.70
EU27		-47%	-31%	-94%	-92%	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					2019
China		227%	-31%	-71%	-94%	11,504	8.1	31.5%	31%
United States		-32%	-32%	-97%	-97%	5,036	15.3	13.8%	45%
EU27		-47%	-31%	-94%	-92%	2,933	6.6	8.0%	45%
India		224%	-24%	15%	-73%	2,564	1.9	7.0%	52%
Russia		-49%	-32%	-97%	-96%	1,778	12.4	4.9%	57%
Japan		-33%	-31%	-95%	-94%	1,139	9.0	3.1%	60%
Germany		-53%	-31%	-96%	-94%	702	8.5	1.9%	62%
Iran		131%	-31%	-80%	-94%	686	8.3	1.9%	64%
South Korea		67%	-32%	-91%	-96%	663	12.9	1.8%	66%
Indonesia		190%	-26%	-18%	-79%	645	2.4	1.8%	68%
Canada		-11%	-32%	-96%	-97%	595	16.0	1.6%	69%
Saudi Arabia		132%	-32%	-90%	-97%	593	17.4	1.6%	71%
Mexico		20%	-29%	-77%	-86%	488	3.7	1.3%	72%
Brazil		55%	-26%	-53%	-78%	477	2.2	1.3%	74%
South Africa		3%	-31%	-91%	-94%	468	8.1	1.3%	75%
Australia		1%	-32%	-95%	-97%	414	16.5	1.1%	76%
Turkey		93%	-30%	-72%	-90%	414	5.0	1.1%	77%
United Kingdom		-57%	-30%	-94%	-91%	359	5.4	1.0%	78%
Italy, San Marino and the Holy S		-46%	-30%	-93%	-91%	333	5.6	0.9%	79%
Vietnam		1049%	-28%	138%	-85%	328	3.4	0.9%	80%
France and Monaco		-42%	-30%	-91%	-90%	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	908.54	417.90	560.93	450.85	679.78	499.60	547.8	45
Albania	131.63	106.71	114.06	108.49	120.11	110.92	113.4	20
Algeria	3,153.34	3,077.55	3,102.51	3,086.07	3,121.34	3,092.12	3,100.5	18
Angola	959.14	582.36	692.45	607.96	783.76	645.27	682.4	28
Anguilla	0.66	0.53	0.57	0.54	0.60	0.55	0.6	21
Antigua and Barbuda	8.92	9.03	9.01	9.03	8.98	9.02	9.0	17
Argentina	3,361.24	3,287.38	3,311.98	3,296.02	3,330.38	3,301.76	3,310.0	18
Armenia	131.17	106.00	113.42	107.79	119.53	110.25	112.7	21
Aruba	13.17	14.22	13.93	14.17	13.67	14.05	14.0	16
Australia	5,878.10	6,760.58	6,510.46	6,709.90	6,297.87	6,618.49	6,534.2	16
Austria	1,096.17	1,184.47	1,159.93	1,179.98	1,138.74	1,170.58	1,162.3	16
Azerbaijan	659.74	623.15	634.38	626.29	643.34	629.63	633.4	18
Bahamas	36.31	37.13	36.92	37.12	36.73	37.02	36.9	17
Bahrain	506.76	592.07	567.83	587.09	547.27	578.29	570.1	16
Bangladesh	4,829.81	2,780.43	3,378.85	2,919.21	3,875.45	3,122.36	3,324.0	30
Barbados	22.57	22.39	22.46	22.43	22.51	22.43	22.5	17
Belarus	1,004.47	1,058.37	1,043.71	1,056.01	1,030.82	1,050.11	1,045.2	17
Belgium	1,514.54	1,648.04	1,610.80	1,641.09	1,578.74	1,626.95	1,614.4	16
Belize	13.88	9.75	10.96	10.03	11.96	10.44	10.8	23
Benin	343.78	201.08	242.76	210.76	277.34	224.90	238.9	29
Bermuda	8.62	9.48	9.24	9.43	9.03	9.34	9.3	16
Bhutan	35.84	28.54	30.69	29.06	32.46	29.77	30.5	21
Bolivia	539.73	450.47	476.85	456.89	498.53	465.57	474.5	20
Bosnia and Herzegovina	420.78	452.31	443.58	450.74	436.02	447.37	444.4	16
Botswana	146.11	135.11	138.44	135.99	141.12	137.02	138.1	18
Brazil	10,487.70	8,908.10	9,375.77	9,022.77	9,759.60	9,176.01	9,333.5	20
British Virgin Islands	2.77	2.80	2.79	2.80	2.79	2.80	2.8	17
Brunei	113.34	131.07	126.04	130.05	121.77	128.21	126.5	16
Bulgaria	697.01	726.65	718.73	725.52	711.67	722.20	719.5	17
Burkina Faso	457.19	180.36	261.01	198.88	328.06	226.42	253.6	70
Burundi	237.98	75.10	122.53	85.97	161.97	102.19	118.2	364
Cabo Verde	22.97	17.73	19.27	18.09	20.54	18.61	19.1	21
Cambodia	541.12	355.59	409.86	368.27	454.84	386.61	404.9	25
Cameroon	639.02	310.16	406.06	332.27	485.73	364.94	397.2	40
Canada	8,468.83	9,722.01	9,366.95	9,650.18	9,065.08	9,520.31	9,400.6	16
Cayman Islands	7.58	8.15	7.99	8.12	7.85	8.06	8.0	16
Central African Republic	102.66	35.56	55.10	40.04	71.35	46.72	53.3	132
Chad	330.53	109.25	173.68	124.02	227.27	146.04	167.8	196
Chile	1,546.19	1,557.59	1,555.76	1,558.61	1,553.24	1,556.71	1,556.1	17
China	178,955.58	193,264.31	189,287.49	192,536.79	185,853.48	191,013.83	189,672.9	16
Colombia	2,212.89	1,784.34	1,910.62	1,814.73	2,014.65	1,856.62	1,899.2	21
Comoros	21.07	9.93	13.18	10.68	15.88	11.79	12.9	43
Congo	194.57	135.11	152.52	139.20	166.94	145.06	150.9	24
Cook Islands	1.09	1.01	1.03	1.02	1.05	1.02	1.0	18
Costa Rica	215.41	171.12	184.16	174.24	194.91	178.58	183.0	21
Côte d'Ivoire	678.68	354.79	449.28	376.63	527.76	408.77	440.6	35
Croatia	326.08	323.28	324.40	323.84	325.13	323.96	324.3	17
Cuba	570.49	486.14	511.13	492.28	531.62	500.46	508.9	19
Curaçao	44.40	51.63	49.58	51.21	47.84	50.46	49.8	16
Cyprus	116.74	121.19	120.01	121.04	118.95	120.53	120.1	17
Czechia	1,573.08	1,737.00	1,691.00	1,728.14	1,651.59	1,710.92	1,695.4	16
Democratic Republic of the Congo	1,796.60	579.43	933.82	660.63	1,228.60	781.81	901.2	259
Denmark	507.03	515.82	513.76	515.83	511.71	514.70	514.0	17
Djibouti	33.02	22.11	25.30	22.85	27.94	23.93	25.0	25
Dominica	3.78	3.24	3.40	3.28	3.53	3.34	3.4	19
Dominican Republic	589.20	517.47	538.81	522.80	556.26	529.71	536.9	19
Ecuador	860.62	738.24	774.52	747.18	804.27	759.03	771.2	19
Egypt	5,714.27	5,126.79	5,302.45	5,171.51	5,445.48	5,227.60	5,286.8	19
El Salvador	229.49	161.23	181.22	165.93	197.78	172.66	179.4	23
Equatorial Guinea	83.61	77.23	79.16	77.74	80.71	78.34	79.0	18
Eritrea	118.24	45.64	66.79	50.49	84.37	57.72	64.8	76
Estonia	236.16	266.23	257.74	264.54	250.50	261.41	258.6	16
Eswatini	48.98	33.64	38.13	34.70	41.85	36.21	37.7	24
Ethiopia	2,471.15	969.33	1,406.84	1,069.81	1,770.59	1,219.21	1,366.6	72

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	0.50	0.56	0.54	0.56	0.53	0.55	0.5	16
Faroese	1.03	0.33	0.53	0.38	0.70	0.45	0.5	265
Fiji	50.20	44.47	46.18	44.90	47.57	45.45	46.0	19
Finland	685.49	738.96	724.12	736.27	711.29	730.57	725.6	16
France and Monaco	5,453.04	5,482.19	5,478.95	5,486.53	5,472.75	5,480.91	5,479.8	17
French Guiana	12.74	10.10	10.88	10.29	11.52	10.55	10.8	21
French Polynesia	18.32	17.10	17.47	17.20	17.77	17.31	17.4	18
Gabon	123.69	112.49	115.86	113.36	118.58	114.43	115.6	19
Georgia	221.84	199.49	206.18	201.19	211.62	203.33	205.6	19
Germany	10,761.75	11,695.21	11,434.98	11,646.80	11,210.82	11,547.86	11,460.1	16
Ghana	838.02	465.07	573.93	490.28	664.30	527.27	563.9	32
Gibraltar	10.97	12.84	12.31	12.73	11.86	12.54	12.4	16
Greece	1,154.32	1,213.73	1,197.62	1,211.19	1,183.43	1,204.66	1,199.2	17
Greenland	7.89	8.64	8.43	8.60	8.25	8.52	8.5	16
Grenada	4.95	4.05	4.32	4.11	4.53	4.20	4.3	20
Guadeloupe	32.53	31.61	31.91	31.70	32.13	31.78	31.9	18
Guatemala	649.91	469.45	522.36	481.93	566.13	499.71	517.5	23
Guinea	310.39	129.94	182.52	142.03	226.23	159.97	177.7	58
Guinea-Bissau	43.64	16.96	24.73	18.74	31.19	21.40	24.0	74
Guyana	38.24	32.29	34.05	32.72	35.50	33.30	33.9	20
Haiti	271.59	122.76	166.14	132.75	202.19	147.54	162.2	47
Honduras	351.58	252.82	281.77	259.64	305.72	269.37	279.1	23
Hong Kong	698.72	720.55	714.89	719.93	709.72	717.39	715.5	17
Hungary	852.05	866.24	862.94	866.29	859.64	864.45	863.3	17
Iceland	52.65	58.41	56.79	58.10	55.41	57.49	56.9	16
India	60,940.34	49,234.82	52,684.52	50,065.53	55,526.23	51,209.37	52,371.4	20
Indonesia	13,787.50	11,902.87	12,462.10	12,041.19	12,920.26	12,223.37	12,411.7	19
Iran	10,626.67	11,506.02	11,261.28	11,460.90	11,050.18	11,367.48	11,285.0	16
Iraq	3,488.42	3,532.36	3,522.95	3,533.48	3,512.86	3,527.35	3,524.2	17
Ireland	571.67	612.59	601.28	610.58	591.47	606.19	602.4	16
Israel and Palestine, State of	1,073.47	1,159.94	1,135.91	1,155.54	1,115.15	1,146.34	1,138.2	16
Italy, San Marino and the Holy See	5,503.43	5,660.85	5,620.49	5,656.91	5,583.27	5,638.40	5,624.8	17
Jamaica	172.40	157.54	162.01	158.70	165.63	160.10	161.6	18
Japan	17,352.04	18,964.78	18,513.98	18,879.69	18,126.50	18,709.38	18,557.4	16
Jordan	555.58	493.92	512.31	498.56	527.32	504.47	510.7	19
Kazakhstan	3,938.96	4,494.16	4,337.02	4,462.54	4,203.31	4,404.91	4,351.9	16
Kenya	1,300.30	618.18	817.07	664.03	982.31	731.79	798.8	42
Kiribati	3.28	1.77	2.21	1.87	2.58	2.02	2.2	33
Kuwait	1,360.74	1,594.78	1,528.26	1,581.12	1,471.85	1,556.97	1,534.6	16
Kyrgyzstan	268.89	213.60	229.87	217.50	243.29	222.91	228.4	21
Laos	690.35	715.95	709.18	715.07	703.10	712.16	709.9	17
Latvia	147.96	146.21	146.86	146.49	147.31	146.60	146.8	17
Lebanon	486.88	484.83	485.89	485.52	486.46	485.48	485.8	17
Lesotho	55.47	25.14	33.98	27.17	41.33	30.19	33.2	47
Liberia	118.58	52.29	71.61	56.74	87.67	63.33	69.8	50
Libya	877.94	956.91	934.86	952.78	915.90	944.42	937.0	16
Lithuania	238.93	239.97	239.90	240.18	239.68	239.96	239.9	17
Luxembourg	136.23	156.62	150.84	155.45	145.93	153.34	151.4	16
Macao	42.01	39.59	40.33	39.79	40.92	40.02	40.3	18
Madagascar	605.38	237.66	344.79	262.26	433.85	298.84	334.9	71
Malawi	417.90	143.34	223.29	161.67	289.79	189.00	215.9	142
Malaysia	4,106.48	4,438.79	4,346.39	4,421.85	4,266.63	4,386.50	4,355.3	16
Maldives	31.30	30.00	30.40	30.12	30.72	30.23	30.4	18
Mali	447.58	180.42	258.26	198.31	322.97	224.88	251.1	65
Malta	30.07	28.85	29.23	28.96	29.53	29.07	29.2	18
Martinique	34.13	34.77	34.62	34.77	34.47	34.69	34.6	17
Mauritania	132.34	75.19	91.88	79.06	105.73	84.73	90.3	31
Mauritius	77.49	71.46	73.28	71.94	74.75	72.51	73.1	18
Mexico	8,954.26	8,539.59	8,668.30	8,576.82	8,770.05	8,613.96	8,657.3	18
Moldova	189.21	156.83	166.39	159.15	174.26	162.31	165.5	20
Mongolia	565.05	635.15	615.37	631.23	598.50	623.92	617.3	16
Morocco	1,676.51	1,373.68	1,463.02	1,395.28	1,536.55	1,424.82	1,454.9	20
Mozambique	779.44	368.43	488.26	396.05	587.83	436.88	477.3	43
Myanmar/Burma	1,591.62	935.88	1,127.40	980.34	1,286.30	1,045.32	1,109.8	29

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	109.40	84.92	92.11	86.63	98.05	89.03	91.5	21
Nepal	839.97	470.13	578.09	495.13	667.70	531.81	568.2	31
Netherlands	2,392.11	2,621.66	2,557.42	2,609.46	2,502.26	2,585.25	2,563.6	16
New Caledonia	102.21	120.34	115.18	119.28	110.81	117.41	115.7	16
New Zealand	579.35	623.11	610.98	620.93	600.49	616.25	612.2	16
Nicaragua	203.20	130.64	151.86	135.59	169.45	142.77	149.9	26
Niger	499.15	178.28	271.73	199.72	349.44	231.65	263.1	110
Nigeria	5,793.38	3,348.09	4,062.14	3,513.72	4,654.68	3,756.09	3,996.7	30
North Korea	942.18	674.94	753.27	693.39	818.07	719.72	746.1	23
North Macedonia	153.79	150.06	151.29	150.48	152.21	150.78	151.2	18
Norway	673.23	726.38	711.62	723.69	698.86	718.02	713.0	16
Oman	1,240.92	1,431.51	1,377.46	1,420.52	1,331.54	1,400.80	1,382.6	16
Pakistan	6,974.85	4,730.85	5,387.69	4,884.72	5,931.72	5,106.33	5,327.6	24
Palau	16.97	20.45	19.45	20.24	18.62	19.88	19.5	15
Panama	223.15	195.23	203.53	197.30	210.32	199.99	202.8	19
Papua New Guinea	269.27	169.74	198.83	176.52	222.96	186.37	196.2	27
Paraguay	256.67	184.62	205.74	189.60	223.21	196.69	203.8	23
Peru	1,373.20	1,071.80	1,160.44	1,092.97	1,233.59	1,122.52	1,152.4	21
Philippines	4,130.79	3,049.58	3,366.80	3,124.60	3,629.04	3,231.00	3,337.9	22
Poland	4,830.53	5,228.22	5,117.58	5,207.87	5,022.12	5,165.60	5,128.3	16
Portugal	823.76	821.67	823.06	822.75	823.70	822.55	823.0	17
Puerto Rico	127.96	88.69	100.19	91.39	109.71	95.27	99.1	24
Qatar	1,462.95	1,748.85	1,667.40	1,731.93	1,598.46	1,702.53	1,675.1	15
Réunion	55.34	51.42	52.61	51.74	53.57	52.11	52.5	18
Romania	1,442.38	1,408.20	1,419.47	1,412.06	1,427.97	1,414.78	1,418.6	18
Russia	26,000.24	29,281.35	28,355.32	29,097.60	27,565.55	28,755.70	28,443.5	16
Rwanda	273.67	96.11	147.82	107.97	190.82	125.64	143.1	121
Saint Helena, Ascension and Tristan da Cunha	0.30	0.29	0.30	0.30	0.30	0.30	0.3	18
Saint Kitts and Nevis	3.21	2.89	2.98	2.91	3.06	2.94	3.0	19
Saint Lucia	7.96	6.40	6.86	6.51	7.24	6.66	6.8	20
Saint Pierre and Miquelon	0.81	0.87	0.86	0.87	0.84	0.86	0.9	16
Saint Vincent and the Grenadines	3.96	2.80	3.14	2.88	3.42	2.99	3.1	23
Samoa	8.75	7.02	7.53	7.14	7.95	7.31	7.5	21
São Tomé and Príncipe	6.30	3.74	4.49	3.92	5.11	4.17	4.4	29
Saudi Arabia	8,426.61	9,718.05	9,351.82	9,643.63	9,040.68	9,509.97	9,386.5	16
Senegal	479.98	275.70	335.35	289.53	384.85	309.78	329.9	30
Serbia and Montenegro	1,347.53	1,483.36	1,445.29	1,476.07	1,412.64	1,461.78	1,448.9	16
Seychelles	17.61	19.85	19.22	19.73	18.68	19.49	19.3	16
Sierra Leone	173.55	65.28	96.82	72.52	123.04	83.30	93.9	85
Singapore	857.75	944.29	920.03	939.64	899.22	930.54	922.4	16
Slovakia	559.42	585.91	578.77	584.83	572.45	581.89	579.5	17
Slovenia	239.38	255.49	251.05	254.71	247.19	252.98	251.5	17
Solomon Islands	16.90	8.84	11.19	9.38	13.14	10.18	11.0	35
Somalia	327.74	109.20	172.83	123.78	225.76	145.54	167.0	180
South Africa	7,244.94	7,822.59	7,662.10	7,793.29	7,523.48	7,731.77	7,677.7	16
South Korea	9,646.05	10,902.47	10,547.58	10,831.76	10,245.11	10,700.99	10,581.4	16
Spain and Andorra	4,234.95	4,342.81	4,315.61	4,340.66	4,290.18	4,327.73	4,318.5	17
Sri Lanka	759.24	538.95	603.51	554.14	656.92	575.86	597.6	23
Sudan and South Sudan	1,430.77	711.88	921.55	760.26	1,095.70	831.65	902.3	38
Suriname	36.13	33.71	34.44	33.91	35.04	34.13	34.4	18
Sweden	783.58	774.91	778.17	776.37	780.39	776.85	777.9	17
Switzerland and Liechtenstein	687.89	684.90	686.43	685.88	687.26	685.84	686.4	17
Syria	714.85	531.37	585.22	544.12	629.72	562.17	580.3	22
Taiwan	4,180.06	4,692.77	4,548.17	4,664.18	4,424.77	4,610.70	4,562.0	16
Tajikistan	296.85	190.20	221.39	197.48	247.24	208.03	218.5	26
Tanzania	1,395.35	571.32	811.42	626.50	1,011.01	708.46	789.3	62
Thailand	4,897.47	4,721.46	4,777.11	4,738.48	4,820.47	4,753.72	4,772.4	18
The Gambia	52.48	22.68	31.36	24.68	38.58	27.64	30.6	53
Timor-Leste	40.76	24.71	29.40	25.80	33.29	27.39	29.0	28
Togo	205.38	98.75	129.84	105.92	155.67	116.51	127.0	41
Tonga	3.87	2.69	3.04	2.77	3.32	2.89	3.0	24
Trinidad and Tobago	458.37	538.29	515.57	533.61	496.30	525.37	517.7	16
Tunisia	636.44	561.48	583.81	567.08	602.04	574.28	581.8	19
Turkey	7,064.26	7,127.25	7,115.70	7,131.19	7,101.57	7,121.39	7,117.5	17

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	1,181.08	1,340.37	1,295.33	1,331.35	1,256.98	1,314.80	1,299.6	16
Turks and Caicos Islands	3.58	3.72	3.69	3.72	3.65	3.70	3.7	17
Uganda	1,003.26	374.80	557.85	416.81	710.07	479.34	541.0	87
Ukraine	3,444.73	3,413.47	3,425.80	3,419.43	3,433.90	3,420.86	3,425.0	17
United Arab Emirates	2,962.80	3,462.35	3,320.41	3,433.24	3,200.01	3,381.67	3,333.8	16
United Kingdom	5,996.21	6,123.49	6,092.33	6,122.08	6,062.48	6,106.34	6,095.8	17
United States	71,854.91	82,259.96	79,313.48	81,665.43	76,807.31	80,586.33	79,593.1	16
Uruguay	157.49	128.39	136.97	130.46	144.04	133.30	136.2	20
Uzbekistan	1,846.51	1,653.65	1,711.28	1,668.29	1,758.23	1,686.72	1,706.1	19
Vanuatu	8.12	4.57	5.60	4.81	6.46	5.16	5.5	31
Venezuela	2,061.55	1,922.95	1,965.08	1,934.33	1,998.94	1,947.20	1,961.4	18
Vietnam	6,243.39	5,845.95	5,967.03	5,878.90	6,064.17	5,915.68	5,956.4	18
Western Sahara	14.76	7.21	9.41	7.72	11.24	8.47	9.2	40
Yemen	735.92	349.07	461.86	375.07	555.58	413.50	451.5	42
Zambia	470.84	238.89	306.55	254.51	362.74	277.54	300.3	37
Zimbabwe	506.19	297.43	358.40	311.58	408.99	332.27	352.8	29
EU27	46,907.86	49,402.97	48,724.70	49,294.34	48,128.40	49,020.87	48,792.1	17
sub sum 2020 - 2100	677,442	680,075	679,955	680,675	679,425	680,077	680,033	
EU27	-46,908	-49,403	-48,725	-49,294	-48,128	-49,021	-48,792	
<b>sum</b>	<b>630,534</b>	<b>630,672</b>	<b>631,231</b>	<b>631,381</b>	<b>631,296</b>	<b>631,056</b>	<b>631,241</b>	
base data: global budget 2020 - 2100*	630,000	630,000	630,000	630,000	630,000	630,000	630,000	
rounding differences	534	672	1,231	1,381	1,296	1,056	1,241	
difference in %	0.08%	0.11%	0.20%	0.22%	0.21%	0.17%	0.20%	
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>26.1%</b>	<b>7.8%</b>	<b>13.1%</b>	<b>9.0%</b>	<b>17.6%</b>	<b>10.9%</b>	<b>12.6%</b>	
global normalised change rate 2020		-0.5%	-0.5%	-0.5%	-0.5%			
global change rate 2030 vs. 2010		-38%	-5%	-18%	-8%	-26%	-22%	
global overshoot in Gt	0	0	0	0	0	0		
base data: global CO2 budget 2020 - 2100 incl. LUC and ISA in Gt:							<b>650</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	178,956	193,264	189,287	192,537	185,853	191,014	189,673	16	30.0%
United States	71,855	82,260	79,313	81,665	76,807	80,586	79,593	16	12.6%
India	60,940	49,235	52,685	50,066	55,526	51,209	52,371	20	8.3%
EU27	46,908	49,403	48,725	49,294	48,128	49,021	48,792	17	7.7%
Russia	26,000	29,281	28,355	29,098	27,566	28,756	28,444	16	4.5%
Japan	17,352	18,965	18,514	18,880	18,127	18,709	18,557	16	2.9%
Indonesia	13,788	11,903	12,462	12,041	12,920	12,223	12,412	19	2.0%
Germany	10,762	11,695	11,435	11,647	11,211	11,548	11,460	16	1.8%
Iran	10,627	11,506	11,261	11,461	11,050	11,367	11,285	16	1.8%
South Korea	9,646	10,902	10,548	10,832	10,245	10,701	10,581	16	1.7%
Canada	8,469	9,722	9,367	9,650	9,065	9,520	9,401	16	1.5%
Saudi Arabia	8,427	9,718	9,352	9,644	9,041	9,510	9,387	16	1.5%
Brazil	10,488	8,908	9,376	9,023	9,760	9,176	9,334	20	1.5%
Mexico	8,954	8,540	8,668	8,577	8,770	8,614	8,657	18	1.4%
South Africa	7,245	7,823	7,662	7,793	7,523	7,732	7,678	16	1.2%
Turkey	7,064	7,127	7,116	7,131	7,102	7,121	7,117	17	1.1%
Australia	5,878	6,761	6,510	6,710	6,298	6,618	6,534	16	1.0%
United Kingdom	5,996	6,123	6,092	6,122	6,062	6,106	6,096	17	1.0%
Vietnam	6,243	5,846	5,967	5,879	6,064	5,916	5,956	18	0.9%
Italy, San Marino and the Holy See	5,503	5,661	5,620	5,657	5,583	5,638	5,625	17	0.9%
France and Monaco	5,453	5,482	5,479	5,487	5,473	5,481	5,480	17	0.9%

<b>central premises</b>	
global CO2 budget 2020 - 2100	650 Gt
LUC budget 2020 - 2100	0 Gt
ISA budget 2020 - 2100	-20 Gt
budget 2020 - 2100 to distribute in this tool	630 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%	13%	9%	18%	11%
global normalised change rate 2020		-0.5%	-0.5%	-0.5%	-0.5%	
global change rate 2030 vs. 2010	-38%	-5%	-18%	-8%	-26%	-22%
global overshoot in Gt	0	0	0	0	0	0
year emissions neutrality	2090	2047	2062	2052	2072	2054

<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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