

Table A13. World carbon dioxide emissions from coal use by region, Reference case, 2015-50

million metric tons carbon dioxide

Region	2015	2020	2025	2030	2035	2040	2045	2050	Average annual percent change (2015-50)
OECD									
OECD Americas	1,606	1,571	1,402	1,196	1,143	1,097	1,059	1,027	-1.3
United States /a	1,483	1,452	1,284	1,099	1,045	1,005	968	937	-1.3
Canada	64	56	56	37	39	33	34	33	-1.8
Mexico and Chile	59	63	62	60	59	58	58	57	-0.1
OECD Europe	1,087	1,137	1,103	1,080	1,077	1,071	1,083	1,117	0.1
OECD Asia	838	831	838	838	841	844	854	871	0.1
Japan	392	382	375	363	351	338	325	313	-0.6
South Korea	286	296	314	327	344	363	386	414	1.1
Australia and New Zealand	160	152	149	147	146	144	143	144	-0.3
Total OECD	3,530	3,538	3,343	3,114	3,061	3,012	2,996	3,014	-0.5
Non-OECD									
Non-OECD Europe and Eurasia	766	736	711	708	719	718	705	686	-0.3
Russia	385	353	336	349	364	366	356	339	-0.4
Other	381	383	375	359	355	352	349	347	-0.3
Non-OECD Asia	10,057	10,367	10,532	10,467	10,547	10,689	10,870	11,028	0.3
China	7,989	7,934	7,812	7,509	7,157	6,823	6,474	6,118	-0.8
India	1,377	1,554	1,715	1,919	2,249	2,612	3,004	3,333	2.6
Other	691	879	1,005	1,040	1,141	1,255	1,392	1,576	2.4
Middle East	8	8	10	19	25	32	39	47	5.3
Africa	399	454	500	509	517	544	574	608	1.2
Non-OECD Americas	96	97	103	108	111	122	132	142	1.1
Brazil	56	53	59	62	64	69	75	79	1.0
Other	40	44	45	46	47	53	58	64	1.3
Total Non-OECD	11,325	11,663	11,857	11,811	11,919	12,104	12,320	12,510	0.3
Total World	14,855	15,200	15,199	14,924	14,980	15,116	15,316	15,524	0.1

a/ Includes the 50 states and the District of Columbia.

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System Plus (2017), run IEO2017_d2017.08.23_153156 and EIA, *Annual Energy Outlook 2017*, DOE/EIA-0383(2017) (Washington, DC: January 2017); AEO2017 National Energy Modeling System, run ref2017.d120816a, www.eia.gov/aeo.