

Table A12. World carbon dioxide emissions from natural gas use by region, Reference case

million metric tons carbon dioxide

Region	2020	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2020–2050
OECD								
OECD Americas	2,091	2,154	2,195	2,267	2,376	2,487	2,574	0.7
United States	1,675	1,676	1,683	1,705	1,774	1,854	1,924	0.5
Canada	237	257	275	298	327	350	369	1.5
Mexico and other OECD Americas	179	221	237	264	275	282	281	1.5
OECD Europe	1,037	1,091	1,108	1,106	1,105	1,130	1,166	0.4
OECD Asia	461	451	453	429	409	390	394	-0.5
Japan	232	215	213	194	179	168	167	-1.1
South Korea	130	131	134	128	123	116	119	-0.3
Australia and New Zealand	99	105	106	107	107	106	109	0.3
Total OECD	3,589	3,697	3,756	3,802	3,891	4,007	4,134	0.5
Non-OECD								
Non-OECD Europe and Eurasia	1,326	1,370	1,432	1,467	1,507	1,548	1,589	0.6
Russia	956	979	1,031	1,058	1,095	1,127	1,152	0.6
Other Europe and Eurasia	370	391	401	409	412	421	437	0.6
Non-OECD Asia	1,261	1,521	1,730	1,860	2,014	2,171	2,341	2.1
China	610	778	898	962	1,034	1,105	1,165	2.2
India	110	153	200	244	290	342	394	4.3
Other Asia	541	590	632	654	690	724	782	1.2
Middle East	1,020	1,159	1,214	1,211	1,257	1,282	1,299	0.8
Africa	300	326	363	403	423	438	488	1.6
Non-OECD Americas	301	314	317	327	337	350	377	0.8
Brazil	65	86	85	78	76	75	78	0.6
Other Non-OECD Americas	236	228	231	249	261	275	300	0.8
Total Non-OECD	4,209	4,690	5,055	5,268	5,538	5,789	6,093	1.2
Total World	7,797	8,386	8,811	9,070	9,429	9,796	10,228	0.9

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System (2021), run r_210719.163829; and EIA, *Annual Energy Outlook 2021*, (February 2021), www.eia.gov/aeo

Notes:

* Values presented are gross CO₂ emissions; CO₂ captured by CCS, accounting for less than 0.2% of the 2050 world total, is not subtracted

* Totals may not equal sum of components due to independent rounding.