

Table A12. World carbon dioxide emissions from natural gas use by region, Low Zero-carbon Technology Cost case

million metric tons of carbon dioxide

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	2,405	2,283	2,234	2,187	2,263	2,286	2,271	-0.2%
United States	1,724	1,574	1,476	1,411	1,447	1,437	1,386	-0.8%
Canada	231	237	239	239	256	274	291	0.8%
Mexico	147	154	171	181	197	206	213	1.3%
Brazil	72	81	95	89	83	77	76	0.2%
Other Americas	231	237	253	267	280	292	305	1.0%
Europe and Eurasia	2,318	2,352	2,434	2,499	2,599	2,712	2,828	0.7%
Western Europe	1,086	1,124	1,190	1,186	1,190	1,203	1,222	0.4%
Russia	931	919	935	994	1,050	1,109	1,166	0.8%
Eastern Europe and Eurasia	300	309	308	319	358	400	440	1.4%
Asia Pacific	1,845	1,984	2,131	2,251	2,399	2,536	2,686	1.4%
Japan	223	226	213	196	182	175	176	-0.8%
South Korea	137	136	131	124	121	117	119	-0.5%
Australia and New Zealand	91	91	93	92	91	90	92	0.0%
China	738	814	867	948	1,041	1,093	1,141	1.6%
India	137	152	211	272	332	392	452	4.4%
Other Asia Pacific	519	565	615	620	632	668	705	1.1%
Africa and Middle East	1,517	1,581	1,663	1,785	1,899	2,000	2,071	1.1%
Africa	331	339	359	390	430	462	496	1.5%
Middle East	1,186	1,242	1,304	1,395	1,469	1,538	1,575	1.0%
World	8,085	8,200	8,461	8,722	9,159	9,533	9,856	0.7%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run lz_230821.151531 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

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