

Table A11. World carbon dioxide emissions from liquid fuels 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	3,501	3,481	3,401	3,356	3,383	3,464	3,567	0.1%
United States	2,189	2,141	2,066	1,996	1,972	1,985	2,018	-0.3%
Canada	271	270	271	278	288	300	308	0.5%
Mexico	253	254	242	241	246	256	271	0.2%
Brazil	310	326	331	337	344	351	357	0.5%
Other Americas	478	491	491	504	533	572	613	0.9%
Europe and Eurasia	2,474	2,495	2,419	2,352	2,338	2,365	2,407	-0.1%
Western Europe	1,905	1,907	1,821	1,749	1,714	1,715	1,731	-0.3%
Russia	435	445	445	441	447	455	462	0.2%
Eastern Europe and Eurasia	134	143	152	162	178	196	215	1.7%
Asia Pacific	4,139	4,474	4,838	5,157	5,437	5,737	6,003	1.3%
Japan	404	387	360	336	320	309	299	-1.1%
South Korea	262	276	274	268	259	251	244	-0.3%
Australia and New Zealand	168	169	176	177	179	184	190	0.4%
China	1,579	1,735	1,821	1,849	1,828	1,819	1,798	0.5%
India	610	702	875	1,077	1,284	1,489	1,681	3.7%
Other Asia Pacific	1,116	1,205	1,332	1,450	1,567	1,685	1,792	1.7%
Africa and Middle East	1,660	1,764	1,751	1,805	1,908	2,036	2,174	1.0%
Africa	597	641	687	753	840	941	1,053	2.0%
Middle East	1,062	1,123	1,064	1,052	1,068	1,094	1,121	0.2%
World	11,773	12,214	12,408	12,670	13,067	13,602	14,151	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.