

Table A11. World carbon dioxide emissions from liquid fuels use by region, High 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	3,482	3,407	3,367	3,397	3,478	3,584	0.1%
United States	2,189	2,142	2,071	2,006	1,985	1,998	2,034	-0.3%
Canada	271	270	272	280	290	302	312	0.5%
Mexico	253	254	242	241	246	256	271	0.2%
Brazil	310	326	330	337	344	351	356	0.5%
Other Americas	478	491	491	504	533	571	612	0.9%
Europe and Eurasia	2,474	2,495	2,418	2,352	2,338	2,366	2,408	-0.1%
Western Europe	1,905	1,907	1,821	1,750	1,714	1,715	1,731	-0.3%
Russia	435	445	445	441	446	455	462	0.2%
Eastern Europe and Eurasia	134	143	152	162	178	196	215	1.7%
Asia Pacific	4,139	4,474	4,843	5,159	5,439	5,740	6,003	1.3%
Japan	404	387	360	337	320	309	299	-1.1%
South Korea	262	276	275	268	259	252	244	-0.3%
Australia and New Zealand	168	169	176	177	179	184	190	0.4%
China	1,579	1,735	1,824	1,850	1,827	1,820	1,797	0.5%
India	610	702	875	1,076	1,285	1,491	1,680	3.7%
Other Asia Pacific	1,116	1,205	1,334	1,451	1,568	1,685	1,794	1.7%
Africa and Middle East	1,660	1,764	1,751	1,804	1,905	2,034	2,170	1.0%
Africa	597	641	687	752	839	940	1,051	2.0%
Middle East	1,062	1,123	1,064	1,051	1,067	1,093	1,120	0.2%
World	11,773	12,215	12,420	12,682	13,080	13,617	14,166	0.7%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hz_230821.151430 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

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