

Table A11. World carbon dioxide emissions from liquid fuels use by region, Reference case

million metric tons of carbon dioxide

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	3,501	3,478	3,395	3,353	3,379	3,460	3,568	0.1%
United States	2,189	2,133	2,060	1,994	1,969	1,982	2,020	-0.3%
Canada	272	272	272	280	289	300	309	0.5%
Mexico	253	254	243	241	247	257	272	0.3%
Brazil	310	326	330	336	343	350	355	0.5%
Other Americas	478	492	490	502	532	570	611	0.9%
Europe and Eurasia	2,479	2,504	2,418	2,353	2,339	2,366	2,408	-0.1%
Western Europe	1,909	1,911	1,821	1,750	1,715	1,716	1,732	-0.3%
Russia	436	449	446	442	447	455	462	0.2%
Eastern Europe and Eurasia	134	144	151	162	177	195	214	1.7%
Asia Pacific	4,139	4,482	4,832	5,147	5,428	5,729	5,996	1.3%
Japan	405	389	361	335	319	308	297	-1.1%
South Korea	262	277	274	267	258	251	243	-0.3%
Australia and New Zealand	168	170	175	176	179	184	190	0.4%
China	1,581	1,734	1,826	1,850	1,828	1,818	1,794	0.5%
India	611	707	875	1,078	1,287	1,494	1,688	3.7%
Other Asia Pacific	1,112	1,206	1,321	1,441	1,557	1,674	1,784	1.7%
Africa and Middle East	1,659	1,769	1,755	1,816	1,913	2,040	2,178	1.0%
Africa	597	642	686	758	838	940	1,052	2.0%
Middle East	1,062	1,127	1,069	1,058	1,075	1,100	1,127	0.2%
World	11,778	12,233	12,400	12,669	13,060	13,595	14,150	0.7%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run r_230822.081459 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/ao

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