

Table A10. World carbon dioxide emissions by region, Low Economic Growth case

million metric tons of carbon dioxide

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	6,992	6,620	5,970	5,823	5,833	5,866	5,987	-0.6%
United States	4,842	4,446	3,815	3,656	3,599	3,561	3,601	-1.1%
Canada	548	533	512	511	527	548	565	0.1%
Mexico	419	422	416	413	429	438	443	0.2%
Brazil	439	463	469	458	451	446	456	0.1%
Other Americas	744	756	759	783	827	874	921	0.8%
Europe and Eurasia	6,361	6,338	6,053	5,940	5,886	5,880	5,994	-0.2%
Western Europe	3,803	3,784	3,564	3,438	3,331	3,259	3,304	-0.5%
Russia	1,815	1,812	1,754	1,738	1,746	1,761	1,780	-0.1%
Eastern Europe and Eurasia	742	743	735	765	808	860	911	0.7%
Asia Pacific	18,703	18,844	19,153	19,248	18,973	18,764	18,454	0.0%
Japan	1,036	1,010	845	762	715	680	654	-1.6%
South Korea	639	639	637	628	614	602	589	-0.3%
Australia and New Zealand	404	391	413	420	421	423	427	0.2%
China	11,498	11,332	10,785	10,268	9,590	8,994	8,438	-1.1%
India	2,446	2,669	3,319	3,700	4,041	4,376	4,495	2.2%
Other Asia Pacific	2,680	2,802	3,154	3,469	3,592	3,689	3,851	1.3%
Africa and Middle East	3,610	3,768	3,865	4,000	4,241	4,449	4,702	0.9%
Africa	1,333	1,379	1,488	1,572	1,751	1,885	2,073	1.6%
Middle East	2,277	2,389	2,377	2,428	2,491	2,565	2,629	0.5%
World	35,666	35,569	35,042	35,011	34,933	34,959	35,138	-0.1%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Im_230821.151939 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

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