

Table M1. World coal production by region, High Economic Growth case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	781	752	551	558	569	578	580	-1.1%
United States	626	600	381	366	357	347	333	-2.2%
Canada	61	55	50	53	54	68	69	0.4%
Mexico	8	8	12	13	13	13	14	1.9%
Brazil	4	5	6	7	15	7	7	1.8%
Other Americas	81	84	101	119	129	143	158	2.4%
Europe and Eurasia	1,017	993	946	983	1,088	1,147	1,170	0.5%
Western Europe	486	476	387	401	483	495	485	0.0%
Russia	402	390	424	439	461	504	530	1.0%
Eastern Europe and Eurasia	129	127	135	143	145	148	155	0.7%
Asia Pacific	6,455	6,533	7,211	7,526	7,698	7,818	7,899	0.7%
Japan	1	1	1	1	1	1	1	2.0%
South Korea	1	1	1	2	2	2	2	2.1%
Australia and New Zealand	412	479	537	581	604	634	685	1.8%
China	4,366	4,301	4,403	4,329	4,273	4,226	4,126	-0.2%
India	805	891	1,172	1,348	1,482	1,536	1,557	2.4%
Other Asia Pacific	870	860	1,097	1,264	1,337	1,419	1,528	2.0%
Africa and Middle East	210	224	287	320	354	381	411	2.4%
Africa	208	222	285	318	351	379	408	2.4%
Middle East	2	2	2	2	2	2	3	1.4%
World	8,463	8,502	8,996	9,387	9,709	9,924	10,061	0.6%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hm_230821.151836 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

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

Table M2. World thermal coal production by region, High Economic Growth case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	656	612	407	417	428	426	428	-1.5%
United States	548	507	284	272	263	254	241	-2.9%
Canada	26	19	15	17	19	21	23	-0.4%
Mexico	3	3	7	7	7	7	7	3.8%
Brazil	4	5	6	7	15	7	7	1.8%
Other Americas	75	78	95	114	123	136	149	2.5%
Europe and Eurasia	866	840	786	817	920	977	1,000	0.5%
Western Europe	468	458	367	381	463	475	465	0.0%
Russia	287	273	301	312	332	374	400	1.2%
Eastern Europe and Eurasia	111	109	117	124	125	129	135	0.7%
Asia Pacific	5,694	5,793	6,503	6,837	7,024	7,160	7,240	0.9%
Japan	1	1	1	1	1	1	1	2.0%
South Korea	1	1	1	2	2	2	2	2.1%
Australia and New Zealand	236	272	320	354	377	407	444	2.3%
China	3,874	3,864	4,009	3,967	3,926	3,896	3,823	0.0%
India	757	842	1,123	1,299	1,433	1,487	1,494	2.5%
Other Asia Pacific	825	813	1,048	1,214	1,286	1,367	1,475	2.1%
Africa and Middle East	201	215	278	311	344	371	399	2.5%
Africa	201	215	277	310	343	370	399	2.5%
Middle East	0	0	0	0	0	0	0	2.7%
World	7,417	7,459	7,973	8,382	8,716	8,934	9,067	0.7%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hm_230821.151836 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

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

Table M3. World metallurgical coal production by region, High Economic Growth case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	125	140	144	141	141	152	153	0.7%
United States	78	93	97	94	94	93	92	0.6%
Canada	36	36	36	36	36	47	47	1.0%
Mexico	6	5	6	6	6	6	6	0.6%
Brazil	0	0	0	0	0	0	0	0.0%
Other Americas	6	6	6	6	6	7	8	1.1%
Europe and Eurasia	151	153	161	166	168	170	170	0.4%
Western Europe	18	18	19	20	20	20	20	0.4%
Russia	116	117	123	127	129	130	130	0.4%
Eastern Europe and Eurasia	17	18	19	19	19	20	20	0.4%
Asia Pacific	761	740	708	688	674	658	660	-0.5%
Japan	0	0	0	0	0	0	0	0.0%
South Korea	0	0	0	0	0	0	0	0.0%
Australia and New Zealand	175	207	217	227	227	227	241	1.1%
China	491	437	393	362	347	330	303	-1.7%
India	49	49	49	49	49	49	63	0.9%
Other Asia Pacific	45	47	49	50	51	52	53	0.5%
Africa and Middle East	9	9	10	10	10	11	12	0.9%
Africa	7	7	8	8	8	9	9	0.8%
Middle East	2	2	2	2	2	2	3	1.2%
World	1,046	1,042	1,023	1,005	993	990	994	-0.2%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hm_230821.151836 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

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

Table M4. World coal consumption by region, High Economic Growth case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	574	530	345	356	370	361	347	-1.8%
United States	499	462	266	247	222	206	181	-3.6%
Canada	25	15	5	6	6	6	6	-4.9%
Mexico	7	8	14	15	15	16	16	3.0%
Brazil	25	26	30	32	44	35	36	1.4%
Other Americas	17	19	30	57	82	98	106	6.7%
Europe and Eurasia	1,019	1,001	879	886	1,014	1,075	1,086	0.2%
Western Europe	642	617	496	507	603	617	606	-0.2%
Russia	238	249	238	230	252	288	295	0.8%
Eastern Europe and Eurasia	138	136	145	149	159	171	185	1.0%
Asia Pacific	6,694	6,799	7,567	7,904	8,049	8,183	8,290	0.8%
Japan	193	192	136	142	139	151	151	-0.9%
South Korea	110	110	113	120	123	124	124	0.4%
Australia and New Zealand	100	93	106	114	117	117	119	0.6%
China	4,676	4,686	4,918	4,852	4,658	4,503	4,343	-0.3%
India	1,063	1,142	1,489	1,692	1,881	1,947	2,028	2.3%
Other Asia Pacific	551	577	804	984	1,132	1,341	1,526	3.7%
Africa and Middle East	177	171	204	242	276	305	338	2.3%
Africa	165	160	193	230	263	292	326	2.4%
Middle East	12	12	11	12	12	13	13	0.3%
World	8,463	8,502	8,996	9,387	9,709	9,924	10,061	0.6%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hm_230821.151836 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

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

Table M5. World thermal coal consumption by region, High Economic Growth case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	536	489	301	311	324	314	299	-2.1%
United States	483	444	247	228	204	188	165	-3.8%
Canada	22	12	3	3	3	3	3	-6.8%
Mexico	3	4	9	10	10	10	10	4.1%
Brazil	12	13	15	17	29	19	20	1.8%
Other Americas	15	16	27	53	78	93	101	7.1%
Europe and Eurasia	852	833	704	701	818	867	865	0.1%
Western Europe	582	559	438	448	545	558	548	-0.2%
Russia	155	164	148	135	151	180	181	0.6%
Eastern Europe and Eurasia	114	110	118	117	122	128	136	0.6%
Asia Pacific	5,860	5,975	6,774	7,142	7,316	7,471	7,594	0.9%
Japan	152	152	100	109	108	124	127	-0.7%
South Korea	72	72	73	78	80	80	80	0.3%
Australia and New Zealand	96	89	101	109	111	111	112	0.5%
China	4,067	4,086	4,364	4,359	4,229	4,138	4,044	0.0%
India	948	1,028	1,364	1,541	1,698	1,726	1,765	2.2%
Other Asia Pacific	524	548	772	947	1,089	1,292	1,467	3.7%
Africa and Middle East	170	163	194	228	259	283	309	2.2%
Africa	163	156	187	221	251	275	301	2.2%
Middle East	8	7	7	8	8	8	8	0.3%
World	7,417	7,459	7,973	8,382	8,716	8,934	9,067	0.7%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hm_230821.151836 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

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

Table M6. World metallurgical coal consumption by region, High Economic Growth case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	38	41	44	45	46	47	48	0.8%
United States	16	18	20	19	18	17	16	0.1%
Canada	3	3	3	3	3	3	3	0.1%
Mexico	4	4	4	5	5	6	6	1.8%
Brazil	13	13	14	15	16	17	17	1.0%
Other Americas	2	3	3	3	4	5	5	2.6%
Europe and Eurasia	167	169	175	185	196	208	221	1.0%
Western Europe	59	58	58	58	59	58	59	-0.1%
Russia	83	86	90	95	101	108	113	1.1%
Eastern Europe and Eurasia	24	25	28	32	36	42	49	2.6%
Asia Pacific	834	825	793	762	733	712	696	-0.6%
Japan	41	40	36	33	30	27	24	-1.9%
South Korea	38	38	40	42	43	44	45	0.6%
Australia and New Zealand	4	5	5	5	6	6	7	1.8%
China	609	600	554	493	429	365	299	-2.5%
India	115	114	126	151	183	221	263	3.0%
Other Asia Pacific	27	29	32	37	43	49	59	2.8%
Africa and Middle East	7	8	10	14	17	22	29	5.3%
Africa	3	4	6	9	13	18	24	8.3%
Middle East	4	4	4	4	4	5	5	0.4%
World	1,046	1,042	1,023	1,005	993	990	994	-0.2%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hm_230821.151836 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

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

Table M7. World coal imports by region, High Economic Growth case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	31	32	34	34	37	37	38	0.7%
United States	5	5	4	2	1	1	1	-6.4%
Canada	5	4	4	4	4	4	4	-0.6%
Mexico	1	1	3	3	3	3	3	5.0%
Brazil	20	21	23	25	29	28	29	1.3%
Other Americas	0	0	0	0	0	1	1	7.9%
Europe and Eurasia	168	152	122	121	139	146	152	-0.4%
Western Europe	155	141	109	106	120	122	121	-0.9%
Russia	0	0	0	0	0	0	0	0.0%
Eastern Europe and Eurasia	13	11	13	15	18	24	31	3.1%
Asia Pacific	1,113	1,188	1,438	1,569	1,562	1,604	1,749	1.6%
Japan	192	191	135	141	137	150	150	-0.9%
South Korea	109	109	112	118	121	122	122	0.4%
Australia and New Zealand	0	0	0	0	0	0	0	0.0%
China	311	385	515	523	385	288	268	-0.5%
India	257	251	317	344	399	411	470	2.2%
Other Asia Pacific	243	253	358	442	519	633	740	4.0%
Africa and Middle East	24	24	28	34	34	40	48	2.5%
Africa	15	15	19	24	24	30	39	3.5%
Middle East	10	9	9	10	10	10	10	0.0%
World	1,337	1,396	1,622	1,757	1,772	1,827	1,987	1.4%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hm_230821.151836 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

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Table M8. World thermal coal imports by region, High Economic Growth case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	12	12	14	15	18	17	18	1.3%
United States	2	2	1	1	1	1	1	-3.6%
Canada	2	1	1	1	1	1	1	-1.9%
Mexico	1	1	3	3	3	3	3	5.0%
Brazil	8	8	9	10	13	12	12	1.8%
Other Americas	0	0	0	0	0	1	1	7.9%
Europe and Eurasia	117	102	72	69	83	85	84	-1.2%
Western Europe	114	101	71	67	82	84	83	-1.1%
Russia	0	0	0	0	0	0	0	0.0%
Eastern Europe and Eurasia	3	1	1	1	1	1	1	-3.7%
Asia Pacific	828	859	1,098	1,230	1,240	1,280	1,392	1.9%
Japan	151	151	99	108	107	123	125	-0.7%
South Korea	71	70	72	76	79	78	78	0.3%
Australia and New Zealand	0	0	0	0	0	0	0	0.0%
China	193	222	355	392	303	246	226	0.6%
India	191	186	241	242	266	239	270	1.2%
Other Asia Pacific	222	230	332	413	486	594	692	4.1%
Africa and Middle East	20	19	21	24	27	29	31	1.6%
Africa	13	12	14	17	19	21	23	2.2%
Middle East	7	7	7	7	8	8	8	0.2%
World	978	992	1,205	1,338	1,368	1,411	1,524	1.6%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hm_230821.151836 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

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Table M9. World metallurgical coal imports by region, High Economic Growth case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	19	20	20	19	19	20	20	0.2%
United States	3	4	3	1	0	0	0	-10.9%
Canada	3	3	3	3	3	3	3	0.1%
Mexico	0	0	0	0	0	0	0	0.0%
Brazil	13	13	14	15	16	17	17	1.0%
Other Americas	0	0	0	0	0	0	0	0.0%
Europe and Eurasia	51	50	50	52	56	61	68	1.0%
Western Europe	41	40	38	38	39	38	39	-0.3%
Russia	0	0	0	0	0	0	0	0.0%
Eastern Europe and Eurasia	10	10	12	14	17	23	30	4.0%
Asia Pacific	284	329	339	338	322	323	358	0.8%
Japan	41	40	36	33	30	27	24	-1.9%
South Korea	38	38	40	42	43	44	45	0.6%
Australia and New Zealand	0	0	0	0	0	0	0	0.0%
China	118	163	160	131	82	41	41	-3.7%
India	66	65	77	102	134	172	200	4.0%
Other Asia Pacific	22	23	26	30	33	39	48	2.9%
Africa and Middle East	4	5	7	10	7	12	17	4.9%
Africa	2	3	5	8	5	9	15	7.2%
Middle East	2	2	2	2	3	3	2	-0.5%
World	359	404	417	419	404	416	463	0.9%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hm_230821.151836 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

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Table M10. World coal exports by region, High Economic Growth case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	238	254	240	236	237	254	271	0.5%
United States	132	143	119	121	137	142	152	0.5%
Canada	41	43	49	51	52	65	67	1.8%
Mexico	2	2	1	1	0	0	0	-8.4%
Brazil	0	0	0	0	0	0	0	0.0%
Other Americas	64	65	71	63	47	46	52	-0.7%
Europe and Eurasia	167	143	189	218	213	218	236	1.2%
Western Europe	0	0	0	0	0	0	0	-0.3%
Russia	164	141	186	209	208	216	235	1.3%
Eastern Europe and Eurasia	3	3	3	9	4	1	0	-7.6%
Asia Pacific	874	921	1,082	1,190	1,211	1,239	1,359	1.6%
Japan	0	0	0	0	0	0	0	0.0%
South Korea	0	0	0	0	0	0	0	0.0%
Australia and New Zealand	311	386	431	467	487	517	566	2.2%
China	0	0	0	0	0	11	51	--
India	0	0	0	0	0	0	0	0.0%
Other Asia Pacific	563	535	651	723	724	711	742	1.0%
Africa and Middle East	58	77	111	112	112	117	121	2.7%
Africa	58	77	111	112	112	117	121	2.7%
Middle East	0	0	0	0	0	0	0	0.0%
World	1,337	1,396	1,622	1,757	1,772	1,827	1,987	1.4%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hm_230821.151836 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

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Table M11. World thermal coal exports by region, High Economic Growth case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	132	135	120	121	122	129	146	0.4%
United States	67	65	39	45	60	67	77	0.5%
Canada	5	8	13	16	17	19	21	5.1%
Mexico	0	0	0	0	0	0	0	8.1%
Brazil	0	0	0	0	0	0	0	0.0%
Other Americas	60	62	68	61	46	44	49	-0.7%
Europe and Eurasia	132	109	153	184	185	195	219	1.8%
Western Europe	0	0	0	0	0	0	0	-0.3%
Russia	132	109	153	177	181	194	219	1.8%
Eastern Europe and Eurasia	0	0	0	8	4	1	0	--
Asia Pacific	663	678	827	926	948	970	1,038	1.6%
Japan	0	0	0	0	0	0	0	0.0%
South Korea	0	0	0	0	0	0	0	0.0%
Australia and New Zealand	140	184	219	246	266	297	332	3.1%
China	0	0	0	0	0	4	5	--
India	0	0	0	0	0	0	0	0.0%
Other Asia Pacific	523	494	608	680	683	669	700	1.0%
Africa and Middle East	51	70	105	106	112	117	121	3.1%
Africa	51	70	105	106	112	117	121	3.1%
Middle East	0	0	0	0	0	0	0	0.0%
World	978	992	1,205	1,338	1,368	1,411	1,524	1.6%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hm_230821.151836 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

Note: Totals may not equal sum of components due to independent rounding. "--" means not applicable. Imports, exports, and net trade coal movements do not include coal trade between countries in the same IEO region. As a result, modeled trade might be lower than published historical coal trade when aggregating all imports or exports within an IEO region.

Table M12. World metallurgical coal exports by region, High Economic Growth case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	106	119	120	115	114	124	125	0.6%
United States	65	78	80	76	76	75	75	0.5%
Canada	36	36	36	36	36	47	47	1.0%
Mexico	2	2	1	1	0	0	0	-8.5%
Brazil	0	0	0	0	0	0	0	0.0%
Other Americas	3	3	3	2	2	2	3	-0.5%
Europe and Eurasia	36	34	36	34	28	22	17	-2.7%
Western Europe	0	0	0	0	0	0	0	0.0%
Russia	32	32	33	32	27	22	17	-2.3%
Eastern Europe and Eurasia	3	3	3	2	0	0	0	-100.0%
Asia Pacific	211	244	255	265	263	269	321	1.5%
Japan	0	0	0	0	0	0	0	0.0%
South Korea	0	0	0	0	0	0	0	0.0%
Australia and New Zealand	171	202	212	222	221	221	234	1.1%
China	0	0	0	0	0	7	46	--
India	0	0	0	0	0	0	0	0.0%
Other Asia Pacific	40	41	43	43	41	41	41	0.1%
Africa and Middle East	7	7	7	6	0	0	0	-100.0%
Africa	7	7	7	6	0	0	0	-100.0%
Middle East	0	0	0	0	0	0	0	0.0%
World	359	404	417	419	404	416	463	0.9%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hm_230821.151836 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

Note: Totals may not equal sum of components due to independent rounding. "--" means not applicable. Imports, exports, and net trade coal movements do not include coal trade between countries in the same IEO region. As a result, modeled trade might be lower than published historical coal trade when aggregating all imports or exports within an IEO region.

Table M13. World coal net trade by region, High Economic Growth case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	-207	-222	-206	-202	-199	-217	-234	--
United States	-127	-138	-114	-119	-135	-141	-151	--
Canada	-36	-39	-45	-47	-48	-62	-63	--
Mexico	-1	-1	2	2	2	3	3	--
Brazil	20	21	23	25	29	28	29	1.3%
Other Americas	-64	-65	-71	-63	-47	-46	-51	--
Europe and Eurasia	1	8	-67	-98	-74	-72	-84	--
Western Europe	155	141	109	106	120	122	121	-0.9%
Russia	-164	-141	-186	-209	-208	-216	-235	--
Eastern Europe and Eurasia	10	8	10	6	14	22	30	4.1%
Asia Pacific	239	267	356	378	351	365	390	1.8%
Japan	192	191	135	141	137	150	150	-0.9%
South Korea	109	109	112	118	121	122	122	0.4%
Australia and New Zealand	-311	-386	-431	-467	-487	-517	-566	--
China	311	385	515	523	385	277	217	-1.3%
India	257	251	317	344	399	411	470	2.2%
Other Asia Pacific	-319	-283	-293	-280	-205	-78	-2	--
Africa and Middle East	-33	-53	-83	-79	-78	-76	-73	--
Africa	-43	-62	-92	-88	-88	-87	-83	--
Middle East	10	9	9	10	10	10	10	0.0%
World	0	0	0	0	0	0	0	--

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hm_230821.151836 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

Note: Totals may not equal sum of components due to independent rounding. "--" means not applicable. Imports, exports, and net trade coal movements do not include coal trade between countries in the same IEO region. As a result, modeled trade might be lower than published historical coal trade when aggregating all imports or exports within an IEO region.

Table M14. World thermal coal net trade by region, High Economic Growth case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	-120	-123	-106	-106	-104	-112	-129	--
United States	-65	-63	-38	-44	-59	-66	-76	--
Canada	-3	-7	-12	-15	-16	-18	-20	--
Mexico	1	1	3	3	3	3	3	5.0%
Brazil	8	8	9	10	13	12	12	1.8%
Other Americas	-60	-62	-68	-60	-45	-43	-48	--
Europe and Eurasia	-15	-7	-81	-116	-102	-110	-135	--
Western Europe	114	101	71	67	82	84	83	-1.1%
Russia	-132	-109	-153	-177	-181	-194	-219	--
Eastern Europe and Eurasia	3	1	1	-7	-3	0	1	-5.0%
Asia Pacific	166	182	271	305	292	311	354	2.7%
Japan	151	151	99	108	107	123	125	-0.7%
South Korea	71	70	72	76	79	78	78	0.3%
Australia and New Zealand	-140	-184	-219	-246	-266	-297	-332	--
China	193	222	355	392	303	242	221	0.5%
India	191	186	241	242	266	239	270	1.2%
Other Asia Pacific	-301	-264	-276	-267	-197	-75	-8	--
Africa and Middle East	-31	-52	-84	-82	-85	-88	-90	--
Africa	-38	-59	-91	-90	-93	-96	-98	--
Middle East	7	7	7	7	8	8	8	0.2%
World	0	0	0	0	0	0	0	4.2%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hm_230821.151836 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

Note: Totals may not equal sum of components due to independent rounding. "--" means not applicable. Imports, exports, and net trade coal movements do not include coal trade between countries in the same IEO region. As a result, modeled trade might be lower than published historical coal trade when aggregating all imports or exports within an IEO region.

Table M15. World metallurgical coal net trade by region, High Economic Growth case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	-87	-99	-99	-96	-95	-104	-105	--
United States	-62	-75	-77	-75	-76	-75	-75	--
Canada	-33	-33	-33	-33	-33	-44	-44	--
Mexico	-2	-2	-1	-1	0	0	0	--
Brazil	13	13	14	15	16	17	17	1.0%
Other Americas	-3	-3	-3	-2	-2	-2	-3	--
Europe and Eurasia	16	15	14	18	28	39	51	4.3%
Western Europe	41	40	38	38	39	38	39	-0.3%
Russia	-32	-32	-33	-32	-27	-22	-17	--
Eastern Europe and Eurasia	7	7	9	12	17	23	30	5.5%
Asia Pacific	73	85	85	74	59	54	36	-2.5%
Japan	41	40	36	33	30	27	24	-1.9%
South Korea	38	38	40	42	43	44	45	0.6%
Australia and New Zealand	-171	-202	-212	-222	-221	-221	-234	--
China	118	163	160	131	82	35	-4	--
India	66	65	77	102	134	172	200	4.0%
Other Asia Pacific	-18	-18	-17	-13	-8	-3	6	--
Africa and Middle East	-2	-2	1	4	7	12	17	--
Africa	-5	-4	-2	1	5	9	15	--
Middle East	2	2	2	2	3	3	2	-0.5%
World	0	0	0	0	0	0	0	--

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hm_230821.151836 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

Note: Totals may not equal sum of components due to independent rounding. "--" means not applicable. Imports, exports, and net trade coal movements do not include coal trade between countries in the same IEO region. As a result, modeled trade might be lower than published historical coal trade when aggregating all imports or exports within an IEO region.