

Table M1. World coal production by region, Low Oil Price case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	781	747	513	531	523	545	547	-1.3%
United States	626	590	352	351	333	338	328	-2.3%
Canada	61	55	50	52	53	62	66	0.3%
Mexico	8	8	12	12	12	12	13	1.8%
Brazil	4	5	4	5	8	5	5	0.2%
Other Americas	81	90	95	110	117	128	135	1.8%
Europe and Eurasia	1,015	989	928	959	953	1,037	1,070	0.2%
Western Europe	486	478	377	390	379	441	457	-0.2%
Russia	399	387	420	429	431	449	463	0.5%
Eastern Europe and Eurasia	129	124	131	140	142	146	149	0.5%
Asia Pacific	6,455	6,488	6,830	6,942	6,892	6,809	6,816	0.2%
Japan	1	1	1	1	1	1	1	1.6%
South Korea	1	1	1	2	2	2	2	1.7%
Australia and New Zealand	411	488	516	561	576	600	611	1.4%
China	4,366	4,238	4,111	3,908	3,718	3,540	3,464	-0.8%
India	805	901	1,136	1,276	1,344	1,387	1,404	2.0%
Other Asia Pacific	870	858	1,064	1,194	1,251	1,279	1,334	1.5%
Africa and Middle East	214	223	274	310	329	354	361	1.9%
Africa	212	221	272	308	327	352	358	1.9%
Middle East	2	2	2	2	2	2	3	1.0%
World	8,464	8,447	8,545	8,741	8,697	8,746	8,793	0.1%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip_230823.090253 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, Low Oil Price case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	656	608	374	389	384	399	395	-1.8%
United States	549	497	260	257	240	248	238	-2.9%
Canada	26	19	14	17	17	18	19	-1.0%
Mexico	3	3	6	7	7	7	7	3.5%
Brazil	4	5	4	5	8	5	5	0.2%
Other Americas	75	84	89	105	111	121	127	1.9%
Europe and Eurasia	863	835	768	792	785	867	900	0.1%
Western Europe	468	459	358	370	359	422	437	-0.2%
Russia	284	270	297	302	303	319	333	0.6%
Eastern Europe and Eurasia	111	106	112	121	123	127	130	0.6%
Asia Pacific	5,694	5,763	6,172	6,347	6,342	6,302	6,339	0.4%
Japan	1	1	1	1	1	1	1	1.6%
South Korea	1	1	1	2	2	2	2	1.7%
Australia and New Zealand	236	281	307	345	351	373	384	1.7%
China	3,874	3,816	3,760	3,628	3,493	3,361	3,329	-0.5%
India	757	852	1,087	1,227	1,295	1,338	1,342	2.1%
Other Asia Pacific	825	811	1,015	1,144	1,200	1,228	1,281	1.6%
Africa and Middle East	205	213	265	300	319	344	350	1.9%
Africa	204	213	264	300	319	344	350	1.9%
Middle East	0	0	0	0	0	0	0	2.2%
World	7,418	7,420	7,579	7,829	7,830	7,913	7,984	0.3%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip_230823.090253 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, Low Oil Price case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	125	139	139	141	140	147	151	0.7%
United States	78	92	92	94	93	91	90	0.5%
Canada	36	36	36	36	36	44	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	6	8	1.1%
Europe and Eurasia	151	153	160	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	18	19	19	19	20	0.4%
Asia Pacific	761	725	657	595	550	507	477	-1.7%
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	209	216	225	227	227	0.9%
China	491	422	351	280	225	179	135	-4.5%
India	49	49	49	49	49	49	62	0.9%
Other Asia Pacific	45	47	49	50	51	52	53	0.5%
Africa and Middle East	9	9	10	10	10	10	11	0.7%
Africa	7	7	8	8	8	8	9	0.6%
Middle East	2	2	2	2	2	2	2	0.8%
World	1,046	1,027	967	912	867	834	809	-0.9%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip_230823.090253 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, Low Oil Price case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	574	539	319	331	330	339	330	-2.0%
United States	499	472	245	237	211	212	200	-3.2%
Canada	25	15	5	6	6	6	6	-5.2%
Mexico	7	7	13	14	15	15	15	2.7%
Brazil	25	26	26	28	33	29	29	0.6%
Other Americas	17	19	29	46	66	78	80	5.6%
Europe and Eurasia	1,018	996	856	857	849	931	960	-0.2%
Western Europe	642	616	483	488	472	542	560	-0.5%
Russia	238	247	232	219	222	225	228	-0.2%
Eastern Europe and Eurasia	138	133	140	149	156	164	172	0.8%
Asia Pacific	6,694	6,744	7,182	7,327	7,262	7,195	7,198	0.3%
Japan	193	191	134	137	132	127	122	-1.6%
South Korea	110	111	113	117	120	121	121	0.3%
Australia and New Zealand	100	93	106	114	115	116	117	0.5%
China	4,676	4,619	4,593	4,464	4,180	3,951	3,820	-0.7%
India	1,063	1,152	1,467	1,608	1,724	1,794	1,815	1.9%
Other Asia Pacific	551	578	768	888	992	1,085	1,202	2.8%
Africa and Middle East	177	168	189	226	256	281	306	2.0%
Africa	165	156	177	215	244	269	293	2.1%
Middle East	12	12	11	12	12	12	12	0.1%
World	8,464	8,447	8,545	8,741	8,697	8,746	8,793	0.1%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip_230823.090253 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/ao

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

Table M5. World thermal coal consumption by region, Low Oil Price case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	536	499	278	289	288	297	288	-2.2%
United States	483	455	228	220	194	196	185	-3.4%
Canada	22	12	2	3	3	3	3	-7.1%
Mexico	3	4	9	10	10	10	10	4.1%
Brazil	12	13	12	13	19	14	14	0.7%
Other Americas	15	16	26	43	63	75	76	6.0%
Europe and Eurasia	852	828	687	683	671	747	772	-0.4%
Western Europe	582	559	429	436	421	494	515	-0.4%
Russia	155	162	145	128	127	127	126	-0.7%
Eastern Europe and Eurasia	114	107	113	120	123	127	131	0.5%
Asia Pacific	5,860	5,932	6,435	6,643	6,631	6,606	6,643	0.4%
Japan	152	152	99	106	105	103	102	-1.4%
South Korea	72	73	74	78	80	81	81	0.4%
Australia and New Zealand	96	89	102	109	110	111	112	0.5%
China	4,067	4,031	4,079	4,032	3,826	3,668	3,602	-0.4%
India	948	1,039	1,345	1,466	1,558	1,600	1,593	1.9%
Other Asia Pacific	524	550	737	853	952	1,041	1,153	2.9%
Africa and Middle East	170	160	179	214	240	262	281	1.8%
Africa	163	153	172	206	232	254	274	1.9%
Middle East	8	8	7	7	8	8	8	0.1%
World	7,418	7,420	7,579	7,829	7,830	7,913	7,984	0.3%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip_230823.090253 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, Low Oil Price case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	38	40	41	42	42	42	41	0.3%
United States	16	17	18	17	16	16	15	-0.3%
Canada	3	3	3	3	3	3	3	-0.1%
Mexico	4	4	4	4	5	5	5	0.8%
Brazil	13	13	14	14	14	15	15	0.5%
Other Americas	2	3	3	3	3	4	4	1.9%
Europe and Eurasia	167	168	169	173	178	183	188	0.4%
Western Europe	59	57	54	53	51	48	45	-0.9%
Russia	83	85	88	91	95	98	101	0.7%
Eastern Europe and Eurasia	24	25	27	30	33	37	42	2.0%
Asia Pacific	834	812	747	684	631	589	555	-1.4%
Japan	41	39	35	31	27	23	20	-2.5%
South Korea	38	38	39	40	40	40	40	0.2%
Australia and New Zealand	4	5	5	5	5	5	6	1.0%
China	609	588	515	432	354	283	218	-3.6%
India	115	113	122	142	166	194	222	2.4%
Other Asia Pacific	27	29	32	35	39	44	50	2.2%
Africa and Middle East	7	8	10	13	16	19	24	4.7%
Africa	3	4	6	8	11	15	20	7.5%
Middle East	4	4	4	4	4	4	4	0.2%
World	1,046	1,027	967	912	867	834	809	-0.9%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip_230823.090253 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, Low Oil Price case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	31	31	33	34	34	33	34	0.3%
United States	6	5	4	4	2	2	2	-3.1%
Canada	5	4	4	4	4	4	4	-0.8%
Mexico	1	1	3	3	3	3	3	5.6%
Brazil	20	21	22	23	25	24	24	0.6%
Other Americas	0	0	0	0	0	0	0	6.6%
Europe and Eurasia	168	150	118	112	109	119	126	-1.0%
Western Europe	155	138	106	99	93	100	103	-1.5%
Russia	0	0	0	0	0	0	0	0.0%
Eastern Europe and Eurasia	13	12	12	14	16	19	23	2.1%
Asia Pacific	1,113	1,184	1,403	1,530	1,535	1,557	1,570	1.2%
Japan	192	190	133	136	130	125	121	-1.6%
South Korea	109	109	112	116	118	120	119	0.3%
Australia and New Zealand	0	0	0	0	0	0	0	0.0%
China	311	381	483	556	461	411	356	0.5%
India	258	251	331	331	380	407	411	1.7%
Other Asia Pacific	243	253	345	391	445	493	563	3.0%
Africa and Middle East	24	24	27	32	37	37	42	1.9%
Africa	15	14	18	22	27	27	32	2.8%
Middle East	10	9	9	9	10	10	9	-0.1%
World	1,337	1,389	1,581	1,708	1,714	1,746	1,772	1.0%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip_230823.090253 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 M8. World thermal coal imports by region, Low Oil Price case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	10	12	13	14	16	15	15	1.4%
United States	0	2	1	1	1	1	1	--
Canada	2	1	1	1	1	1	1	-2.2%
Mexico	1	1	3	3	3	3	3	5.6%
Brazil	8	8	8	9	10	10	10	0.9%
Other Americas	0	0	0	0	0	0	0	6.6%
Europe and Eurasia	117	101	72	67	63	74	79	-1.4%
Western Europe	114	99	71	66	62	73	78	-1.4%
Russia	0	0	0	0	0	0	0	0.0%
Eastern Europe and Eurasia	3	1	1	1	1	1	1	-3.6%
Asia Pacific	829	854	1,067	1,186	1,190	1,209	1,228	1.4%
Japan	151	151	98	105	104	102	101	-1.4%
South Korea	71	71	73	76	78	80	80	0.4%
Australia and New Zealand	0	0	0	0	0	0	0	0.0%
China	193	215	319	404	332	308	273	1.3%
India	192	187	258	238	263	263	251	1.0%
Other Asia Pacific	222	230	319	363	413	457	523	3.1%
Africa and Middle East	20	19	20	23	25	27	28	1.3%
Africa	13	11	13	16	18	20	21	1.9%
Middle East	7	7	7	7	7	7	7	0.0%
World	976	985	1,171	1,290	1,294	1,325	1,350	1.2%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip_230823.090253 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

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Table M9. World metallurgical coal imports by region, Low Oil Price case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	21	19	20	20	18	18	19	-0.4%
United States	6	4	3	3	1	1	2	-4.5%
Canada	3	3	3	3	3	3	3	-0.1%
Mexico	0	0	0	0	0	0	0	0.0%
Brazil	13	13	14	14	14	15	15	0.5%
Other Americas	0	0	0	0	0	0	0	0.0%
Europe and Eurasia	51	49	46	46	46	46	47	-0.3%
Western Europe	41	39	35	33	31	28	25	-1.7%
Russia	0	0	0	0	0	0	0	0.0%
Eastern Europe and Eurasia	10	11	11	13	15	18	22	2.9%
Asia Pacific	284	331	336	343	344	347	343	0.7%
Japan	41	39	35	31	27	23	20	-2.5%
South Korea	38	38	39	40	40	40	40	0.2%
Australia and New Zealand	0	0	0	0	0	0	0	0.0%
China	118	166	164	152	129	104	82	-1.3%
India	66	65	73	93	117	145	160	3.2%
Other Asia Pacific	22	23	25	28	31	35	40	2.3%
Africa and Middle East	4	5	7	9	12	10	13	3.9%
Africa	2	3	5	7	9	8	11	6.0%
Middle East	2	2	2	2	2	2	2	-0.3%
World	361	404	409	418	420	421	422	0.6%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip_230823.090253 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

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Table M10. World coal exports by region, Low Oil Price case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	238	239	227	234	227	240	251	0.2%
United States	132	123	112	118	124	129	130	-0.1%
Canada	41	43	48	50	51	60	64	1.6%
Mexico	2	2	1	1	1	1	2	-0.2%
Brazil	0	0	0	0	0	0	0	0.0%
Other Americas	64	72	66	65	51	50	55	-0.5%
Europe and Eurasia	164	143	190	214	212	226	236	1.3%
Western Europe	0	0	0	0	0	0	0	-0.1%
Russia	161	140	188	210	210	224	236	1.4%
Eastern Europe and Eurasia	3	3	3	4	2	1	0	-100.0%
Asia Pacific	874	928	1,051	1,144	1,165	1,171	1,188	1.1%
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	395	410	447	461	484	494	1.7%
China	0	0	0	0	0	0	0	0.0%
India	0	0	0	0	0	0	0	0.0%
Other Asia Pacific	563	533	641	697	704	687	695	0.8%
Africa and Middle East	61	79	112	116	110	110	97	1.7%
Africa	61	79	112	116	110	110	97	1.7%
Middle East	0	0	0	0	0	0	0	0.0%
World	1,337	1,389	1,581	1,708	1,714	1,746	1,772	1.0%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip_230823.090253 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 M11. World thermal coal exports by region, Low Oil Price case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	131	121	109	115	111	117	122	-0.2%
United States	65	45	34	38	47	53	53	-0.7%
Canada	5	8	12	15	16	17	18	4.5%
Mexico	0	0	0	0	0	0	0	6.9%
Brazil	0	0	0	0	0	0	0	0.0%
Other Americas	60	68	63	62	49	47	51	-0.6%
Europe and Eurasia	129	108	153	176	177	194	207	1.7%
Western Europe	0	0	0	0	0	0	0	-0.1%
Russia	129	108	153	174	176	192	207	1.7%
Eastern Europe and Eurasia	0	0	0	2	1	1	0	0.0%
Asia Pacific	663	684	804	891	902	906	924	1.2%
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	192	206	236	241	262	272	2.4%
China	0	0	0	0	0	0	0	0.0%
India	0	0	0	0	0	0	0	0.0%
Other Asia Pacific	523	492	598	654	661	644	652	0.8%
Africa and Middle East	54	72	106	109	105	109	97	2.1%
Africa	54	72	106	109	105	109	97	2.1%
Middle East	0	0	0	0	0	0	0	0.0%
World	976	985	1,171	1,290	1,294	1,325	1,350	1.2%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip_230823.090253 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, Low Oil Price case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	108	119	118	120	116	123	129	0.6%
United States	67	78	78	80	77	76	76	0.5%
Canada	36	36	36	36	36	44	47	1.0%
Mexico	2	2	1	1	1	1	2	-0.2%
Brazil	0	0	0	0	0	0	0	0.0%
Other Americas	3	3	3	3	2	3	4	0.5%
Europe and Eurasia	36	35	38	38	35	32	29	-0.7%
Western Europe	0	0	0	0	0	0	0	0.0%
Russia	32	32	35	36	34	32	29	-0.4%
Eastern Europe and Eurasia	3	3	3	2	1	0	0	-100.0%
Asia Pacific	211	244	247	254	263	265	265	0.8%
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	203	204	211	220	222	222	0.9%
China	0	0	0	0	0	0	0	0.0%
India	0	0	0	0	0	0	0	0.0%
Other Asia Pacific	40	41	42	43	43	43	43	0.3%
Africa and Middle East	7	7	7	6	6	1	0	-100.0%
Africa	7	7	7	6	6	1	0	-100.0%
Middle East	0	0	0	0	0	0	0	0.0%
World	361	404	409	418	420	421	422	0.6%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip_230823.090253 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, Low Oil Price case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	-207	-209	-194	-200	-193	-206	-217	--
United States	-127	-117	-107	-114	-122	-127	-128	--
Canada	-36	-39	-44	-47	-47	-57	-61	--
Mexico	-1	-1	2	2	2	3	2	--
Brazil	20	21	22	23	25	24	24	0.6%
Other Americas	-64	-72	-66	-64	-51	-50	-55	--
Europe and Eurasia	4	7	-72	-102	-103	-106	-110	--
Western Europe	155	138	106	99	93	100	103	-1.5%
Russia	-161	-140	-188	-210	-210	-224	-236	--
Eastern Europe and Eurasia	10	9	9	10	14	18	23	3.1%
Asia Pacific	240	256	352	385	370	386	382	1.7%
Japan	192	190	133	136	130	125	121	-1.6%
South Korea	109	109	112	116	118	120	119	0.3%
Australia and New Zealand	-311	-395	-410	-447	-461	-484	-494	--
China	311	381	483	556	461	411	356	0.5%
India	258	251	331	331	380	407	411	1.7%
Other Asia Pacific	-319	-280	-296	-306	-259	-194	-132	--
Africa and Middle East	-37	-55	-86	-84	-74	-73	-56	--
Africa	-47	-64	-95	-93	-83	-83	-65	--
Middle East	10	9	9	9	10	10	9	-0.1%
World	0	0	0	0	0	0	0	--

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip_230823.090253 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, Low Oil Price case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	-120	-109	-96	-100	-95	-101	-107	--
United States	-65	-43	-33	-37	-46	-52	-53	--
Canada	-3	-7	-12	-14	-15	-16	-17	--
Mexico	1	1	3	3	3	3	3	5.6%
Brazil	8	8	8	9	10	10	10	0.9%
Other Americas	-60	-68	-63	-62	-48	-47	-51	--
Europe and Eurasia	-12	-7	-81	-109	-114	-120	-128	--
Western Europe	114	99	71	66	62	73	78	-1.4%
Russia	-129	-108	-153	-174	-176	-192	-207	--
Eastern Europe and Eurasia	3	1	1	-1	0	0	1	-3.6%
Asia Pacific	167	170	263	296	289	303	304	2.2%
Japan	151	151	98	105	104	102	101	-1.4%
South Korea	71	71	73	76	78	80	80	0.4%
Australia and New Zealand	-140	-192	-206	-236	-241	-262	-272	--
China	193	215	319	404	332	308	273	1.3%
India	192	187	258	238	263	263	251	1.0%
Other Asia Pacific	-301	-262	-279	-291	-248	-186	-129	--
Africa and Middle East	-34	-53	-86	-87	-80	-82	-69	--
Africa	-42	-61	-93	-94	-87	-89	-76	--
Middle East	7	7	7	7	7	7	7	0.0%
World	0	0	0	0	0	0	0	--

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip_230823.090253 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, Low Oil Price case

million short tons

Region	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Americas	-87	-100	-98	-100	-98	-105	-110	--
United States	-61	-75	-75	-77	-76	-75	-75	--
Canada	-33	-33	-33	-33	-33	-41	-44	--
Mexico	-2	-2	-1	-1	-1	-1	-2	--
Brazil	13	13	14	14	14	15	15	0.5%
Other Americas	-3	-3	-3	-3	-2	-3	-4	--
Europe and Eurasia	16	14	9	7	10	14	19	0.6%
Western Europe	41	39	35	33	31	28	25	-1.7%
Russia	-32	-32	-35	-36	-34	-32	-29	--
Eastern Europe and Eurasia	7	8	8	10	14	18	22	4.4%
Asia Pacific	73	87	89	89	81	82	78	0.2%
Japan	41	39	35	31	27	23	20	-2.5%
South Korea	38	38	39	40	40	40	40	0.2%
Australia and New Zealand	-171	-203	-204	-211	-220	-222	-222	--
China	118	166	164	152	129	104	82	-1.3%
India	66	65	73	93	117	145	160	3.2%
Other Asia Pacific	-18	-18	-17	-15	-11	-8	-3	--
Africa and Middle East	-2	-2	0	3	6	9	13	--
Africa	-5	-4	-2	1	4	7	11	--
Middle East	2	2	2	2	2	2	2	-0.3%
World	0	0	0	0	0	0	0	-1.5%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip_230823.090253 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.