

Total Energy Related CO2 Emissions Projections by the EIA Annual Energy Outlook 2014  
and 2015\* in Millions of Metric Tons/Year

Scen. #	Scenario	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
1	Reference case*		5,272	5,405	5,488	5,428	5,436	5,405	5,425	5,477	5,499	5,495	5,499	5,508
2	High economic growth*		5,272	5,405	5,488	5,453	5,473	5,474	5,518	5,586	5,631	5,651	5,675	5,699
3	Low economic growth*		5,272	5,405	5,489	5,441	5,413	5,361	5,339	5,350	5,343	5,331	5,319	5,311
4	High oil price*		5,272	5,405	5,491	5,415	5,415	5,338	5,324	5,402	5,441	5,449	5,454	5,460
5	Low oil price*		5,272	5,405	5,488	5,447	5,448	5,468	5,483	5,512	5,523	5,524	5,532	5,552
6	Extended policies	5,498	5,290	5,420	5,420	5,431	5,397	5,425	5,455	5,463	5,466	5,475	5,479	5,478
7	No sunset	5,498	5,290	5,420	5,421	5,428	5,400	5,424	5,459	5,467	5,468	5,482	5,489	5,494
8	Accelerated nuclear retirements	5,498	5,290	5,420	5,424	5,417	5,380	5,418	5,452	5,468	5,476	5,487	5,497	5,502
9	High nuclear	5,498	5,290	5,420	5,424	5,415	5,374	5,412	5,440	5,457	5,460	5,472	5,474	5,482
10	Accelerated coal retirements	5,498	5,290	5,419	5,410	5,387	5,295	5,288	5,284	5,283	5,287	5,280	5,265	5,255
11	Accelerated nuclear and coal retirements	5,498	5,290	5,419	5,411	5,387	5,294	5,291	5,286	5,284	5,290	5,283	5,269	5,257
12	Low nuclear	5,498	5,290	5,399	5,394	5,394	5,339	5,356	5,401	5,429	5,453	5,463	5,480	5,505
13	ESICA legislation	5,498	5,290	5,421	5,425	5,416	5,380	5,414	5,449	5,464	5,472	5,480	5,489	5,496
14	Low coal cost	5,498	5,290	5,420	5,427	5,427	5,411	5,463	5,506	5,529	5,541	5,557	5,568	5,581
15	High coal cost	5,498	5,290	5,420	5,418	5,396	5,335	5,348	5,363	5,368	5,370	5,367	5,365	5,353
16	Low renewable technology cost	5,498	5,290	5,419	5,420	5,408	5,363	5,397	5,436	5,442	5,437	5,449	5,459	5,474
17	Low oil and gas resource	5,498	5,290	5,423	5,424	5,428	5,406	5,445	5,471	5,482	5,483	5,479	5,472	5,474
18	High oil and gas resource*		5,272	5,405	5,487	5,442	5,411	5,396	5,383	5,418	5,435	5,451	5,471	5,507
19	High vehicle miles traveled	5,498	5,290	5,421	5,440	5,446	5,415	5,454	5,491	5,510	5,517	5,524	5,539	5,552
20	Low vehicle miles traveled	5,498	5,290	5,421	5,423	5,413	5,371	5,403	5,428	5,436	5,437	5,439	5,444	5,441
21	High rail liquefied natural gas	5,498	5,290	5,419	5,421	5,416	5,379	5,419	5,454	5,473	5,477	5,490	5,501	5,506
22	Low rail liquefied natural gas	5,498	5,290	5,419	5,421	5,416	5,379	5,420	5,455	5,473	5,477	5,491	5,501	5,511
23	2013 demand technology	5,498	5,290	5,420	5,442	5,444	5,430	5,483	5,529	5,556	5,579	5,583	5,605	5,616
24	High demand technology	5,498	5,290	5,421	5,390	5,372	5,318	5,325	5,339	5,339	5,322	5,310	5,300	5,300
25	Best available demand technology	5,498	5,290	5,420	5,342	5,299	5,218	5,214	5,222	5,215	5,220	5,209	5,198	5,197
26	No greenhouse gas concern	5,498	5,290	5,420	5,425	5,420	5,388	5,426	5,462	5,477	5,484	5,495	5,506	5,514
27	Greenhouse gas \$10	5,498	5,290	5,419	5,421	5,315	5,172	5,164	5,179	5,178	5,161	5,154	5,145	5,127
28	Greenhouse gas \$25	5,498	5,290	5,422	5,418	5,142	4,758	4,626	4,608	4,594	4,555	4,523	4,474	4,428
29	Greenhouse gas \$10 and low gas prices	5,498	5,290	5,401	5,392	5,274	5,072	5,052	5,057	5,070	5,069	5,066	5,048	5,049
30	Low electricity demand	5,498	5,290	5,418	5,337	5,282	5,162	5,130	5,104	5,094	5,098	5,088	5,077	5,071

Note: An astrisk (\*) denotes the scenario is from EIA's 2015 Annual Energy Outlook.

Scen. #	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
1	5,517	5,511	5,508	5,509	5,510	5,511	5,514	5,509	5,505	5,505	5,510	5,521	5,531	5,536	5,545	5,546	5,549
2	5,718	5,724	5,735	5,753	5,768	5,781	5,791	5,796	5,798	5,809	5,831	5,861	5,888	5,918	5,946	5,962	5,979
3	5,302	5,282	5,262	5,247	5,235	5,223	5,210	5,198	5,185	5,179	5,172	5,171	5,171	5,173	5,173	5,166	5,160
4	5,461	5,461	5,463	5,467	5,465	5,466	5,461	5,455	5,451	5,457	5,475	5,496	5,523	5,544	5,559	5,572	5,584
5	5,567	5,567	5,567	5,572	5,574	5,578	5,585	5,588	5,591	5,596	5,602	5,613	5,624	5,638	5,654	5,663	5,671
6	5,489	5,485	5,475	5,468	5,451	5,431	5,415	5,400	5,378	5,362	5,351	5,341	5,333	5,327	5,317	5,312	5,313
7	5,507	5,505	5,503	5,505	5,499	5,492	5,480	5,472	5,462	5,457	5,454	5,451	5,448	5,450	5,454	5,460	5,469
8	5,511	5,518	5,518	5,522	5,520	5,516	5,525	5,525	5,527	5,538	5,561	5,591	5,598	5,631	5,652	5,671	5,677
9	5,490	5,488	5,489	5,494	5,492	5,487	5,490	5,487	5,487	5,489	5,498	5,508	5,516	5,528	5,539	5,549	5,560
10	5,239	5,238	5,227	5,219	5,204	5,187	5,174	5,161	5,154	5,145	5,143	5,145	5,138	5,129	5,136	5,136	5,124
11	5,242	5,235	5,227	5,218	5,205	5,190	5,184	5,173	5,173	5,179	5,196	5,228	5,216	5,230	5,242	5,249	5,244
12	5,531	5,545	5,551	5,572	5,574	5,570	5,586	5,607	5,614	5,642	5,678	5,731	5,752	5,807	5,847	5,893	5,925
13	5,512	5,513	5,513	5,520	5,519	5,514	5,513	5,511	5,510	5,513	5,522	5,532	5,538	5,544	5,557	5,568	5,579
14	5,596	5,606	5,611	5,611	5,615	5,613	5,614	5,615	5,619	5,627	5,638	5,649	5,665	5,685	5,699	5,714	5,728
15	5,362	5,364	5,358	5,345	5,336	5,321	5,316	5,306	5,290	5,283	5,281	5,279	5,278	5,292	5,287	5,290	5,290
16	5,488	5,490	5,494	5,495	5,494	5,491	5,485	5,481	5,476	5,474	5,479	5,484	5,489	5,497	5,506	5,513	5,520
17	5,472	5,465	5,452	5,435	5,421	5,404	5,393	5,386	5,376	5,367	5,363	5,356	5,354	5,355	5,358	5,359	5,361
18	5,538	5,557	5,572	5,595	5,611	5,619	5,636	5,650	5,654	5,677	5,702	5,717	5,735	5,753	5,772	5,781	5,800
19	5,568	5,574	5,576	5,582	5,580	5,578	5,572	5,571	5,569	5,572	5,580	5,588	5,593	5,604	5,621	5,632	5,642
20	5,445	5,445	5,438	5,430	5,424	5,414	5,409	5,399	5,390	5,390	5,394	5,399	5,404	5,412	5,420	5,424	5,430
21	5,518	5,524	5,522	5,526	5,526	5,524	5,524	5,521	5,520	5,527	5,533	5,541	5,550	5,560	5,573	5,585	5,593
22	5,522	5,525	5,526	5,530	5,534	5,531	5,532	5,529	5,529	5,534	5,541	5,548	5,556	5,565	5,579	5,590	5,598
23	5,641	5,656	5,673	5,683	5,685	5,693	5,702	5,712	5,717	5,728	5,742	5,755	5,769	5,782	5,799	5,804	5,810
24	5,301	5,297	5,286	5,282	5,276	5,268	5,263	5,259	5,255	5,254	5,259	5,265	5,274	5,283	5,293	5,302	5,313
25	5,199	5,199	5,191	5,183	5,175	5,166	5,163	5,160	5,155	5,153	5,156	5,161	5,168	5,182	5,193	5,201	5,213
26	5,527	5,530	5,530	5,537	5,539	5,535	5,537	5,539	5,545	5,552	5,561	5,572	5,587	5,605	5,625	5,642	5,653
27	5,127	5,116	5,116	5,110	5,092	5,078	5,049	5,018	4,981	4,953	4,931	4,906	4,876	4,848	4,803	4,754	4,703
28	4,377	4,337	4,271	4,213	4,140	4,063	4,001	3,946	3,895	3,852	3,811	3,759	3,709	3,671	3,640	3,615	3,591
29	5,050	5,042	5,031	4,997	4,975	4,952	4,949	4,934	4,927	4,907	4,891	4,880	4,868	4,863	4,832	4,803	4,782
30	5,069	5,063	5,053	5,044	5,034	5,024	5,020	5,018	5,007	5,002	5,003	5,006	5,008	5,014	5,026	5,033	5,043

Scen. #	Growth Rate (2012-2040)
1	0.10%
2	0.40%
3	-0.20%
4	0.10%
5	0.20%
6	0.00%
7	0.10%
8	0.30%
9	0.20%
10	-0.10%
11	0.00%
12	0.40%
13	0.20%
14	0.30%
15	0.00%
16	0.20%
17	0.00%
18	0.30%
19	0.20%
20	0.10%
21	0.20%
22	0.20%
23	0.30%
24	0.00%
25	-0.10%
26	0.20%
27	-0.40%
28	-1.40%
29	-0.40%
30	-0.20%