

Table 2. Energy Consumption by Sector and Source

<https://www.eia.gov/outlooks/aeo/data/browser/#/?id=2-AEO2022®ion=1-9&cases=ref2022&start=2020&end=2050&f=Q&linechart=ref2022-d011222a.3-2-AEO2022.1-9&map=ref2022-d011222a.4-2-AEO2022.1-9&ctype=linechart&sourcekey=0>

Sun May 01 2022 16:26:22 GMT-0700 (Pacific Daylight Time)

Source: U.S. Energy Information Administration

	full name	api key	units	2020	2025	2030	2035	2040	2045	2050	Growth (2021-2050)
Residential		2-AEO2022.2.									
Propane	Energy Use: Residenti	2-AEO2022.3.ref20;	quads	0.035301	0.034294	0.032961	0.032511	0.032314	0.032451	0.032451	-0.60%
Distillate Fuel Oil	Energy Use: Residenti	2-AEO2022.4.ref20;	quads	0.011203	0.010085	0.00918	0.008369	0.007638	0.006996	0.006996	-2.20%
Petroleum and Other Liquids Subtotal	Energy Use: Residenti	2-AEO2022.5.ref20;	quads	0.046504	0.044379	0.042141	0.04088	0.039951	0.039447	0.039447	-0.90%
Natural Gas	Energy Use: Residenti	2-AEO2022.6.ref20;	quads	0.643725	0.668155	0.652252	0.653175	0.652983	0.653728	0.653728	-0.10%
Renewable Energy	Energy Use: Residenti	2-AEO2022.7.ref20;	quads	0.071857	0.067223	0.059876	0.053154	0.047702	0.042763	0.042763	-2.10%
Purchased Electricity	Energy Use: Residenti	2-AEO2022.8.ref20;	quads	0.531145	0.526238	0.523074	0.529118	0.53055	0.532249	0.532249	0.00%
Delivered Energy	Energy Use: Residenti	2-AEO2022.9.ref20;	quads	1.29323	1.305995	1.277343	1.276327	1.271186	1.268186	1.268186	-0.20%
Electricity Related Losses	Energy Use: Residenti	2-AEO2022.10.ref20;	quads	0.709774	0.653803	0.609332	0.583777	0.603935	0.615198	0.615198	-0.50%
Total	Energy Use: Residenti	2-AEO2022.11.ref20;	quads	2.003003	1.959798	1.886674	1.860104	1.875121	1.883384	1.883384	-0.30%
Commercial		2-AEO2022.13.									
Propane	Energy Use: Commerc	2-AEO2022.14.ref20;	quads	0.024815	0.024682	0.025191	0.025837	0.0265	0.027201	0.027201	0.30%
Motor Gasoline	Energy Use: Commerc	2-AEO2022.15.ref20;	quads	0.065049	0.065406	0.065459	0.06579	0.066115	0.066478	0.066478	0.10%
Kerosene	Energy Use: Commerc	2-AEO2022.16.ref20;	quads	0.000123	0.000105	0.000038	0.000027	0.000016	0.000013	0.000013	-5.60%
Distillate Fuel Oil	Energy Use: Commerc	2-AEO2022.17.ref20;	quads	0.03962	0.04045	0.039165	0.039019	0.038839	0.038868	0.038868	0.40%
Residual Fuel Oil	Energy Use: Commerc	2-AEO2022.18.ref20;	quads	0	0	0	0	0	0.000008	0.000008	--
Petroleum and Other Liquids Subtotal	Energy Use: Commerc	2-AEO2022.19.ref20;	quads	0.129607	0.130643	0.129853	0.130672	0.131471	0.132567	0.132567	0.20%
Natural Gas	Energy Use: Commerc	2-AEO2022.20.ref20;	quads	0.370241	0.37733	0.366504	0.371535	0.37627	0.380313	0.380313	0.20%
Coal	Energy Use: Commerc	2-AEO2022.21.ref20;	quads	0.005694	0.005694	0.005694	0.005694	0.005694	0.005694	0.005694	-0.30%
Renewable Energy	Energy Use: Commerc	2-AEO2022.22.ref20;	quads	0.026765	0.026765	0.026765	0.026765	0.026765	0.026765	0.026765	0.00%
Purchased Electricity	Energy Use: Commerc	2-AEO2022.23.ref20;	quads	0.531867	0.525042	0.526445	0.541333	0.561444	0.585082	0.585082	0.30%
Delivered Energy	Energy Use: Commerc	2-AEO2022.24.ref20;	quads	1.064174	1.065473	1.05526	1.076	1.101644	1.130421	1.130421	0.30%
Electricity Related Losses	Energy Use: Commerc	2-AEO2022.25.ref20;	quads	0.710739	0.652316	0.613258	0.597255	0.639102	0.676265	0.676265	-0.20%
Total	Energy Use: Commerc	2-AEO2022.26.ref20;	quads	1.774913	1.717789	1.668519	1.673254	1.740746	1.806686	1.806686	0.10%
Industrial		2-AEO2022.28.									
Liquefied Petroleum Gases and Other	Energy Use: Industrial	2-AEO2022.29.ref20;	quads	0.003827	0.003924	0.004029	0.004128	0.004206	0.00427	0.00427	-5.20%
Motor Gasoline	Energy Use: Industrial	2-AEO2022.30.ref20;	quads	0.042061	0.04375	0.045543	0.047638	0.049905	0.052201	0.052201	1.00%
Distillate Fuel Oil	Energy Use: Industrial	2-AEO2022.31.ref20;	quads	0.118495	0.120327	0.123745	0.128337	0.133364	0.138247	0.138247	0.70%
Residual Fuel Oil	Energy Use: Industrial	2-AEO2022.32.ref20;	quads	0.001961	0.002015	0.002002	0.001876	0.001591	0.0015	0.0015	-0.50%
Petrochemical Feedstocks	Energy Use: Industrial	2-AEO2022.33.ref20;	quads	0	0	0	0	0	0	0	--
Other Petroleum	Energy Use: Industrial	2-AEO2022.34.ref20;	quads	0.370793	0.403161	0.428156	0.453838	0.44645	0.462206	0.462206	0.10%
Petroleum and Other Liquids Subtotal	Energy Use: Industrial	2-AEO2022.35.ref20;	quads	0.537137	0.573176	0.603476	0.635817	0.635516	0.658425	0.658425	0.20%
Natural Gas	Energy Use: Industrial	2-AEO2022.36.ref20;	quads	1.1215	1.194561	1.195592	1.283303	1.375062	1.47696	1.47696	1.40%
Natural-Gas-to-Liquids Heat and Power	Energy Use: Industrial	2-AEO2022.37.ref20;	quads	0	0	0	0	0	0	0	--
Lease and Plant Fuel	Energy Use: Industrial	2-AEO2022.38.ref20;	quads	0.270205	0.307828	0.318785	0.308481	0.315875	0.348114	0.348114	0.70%
Natural Gas to Liquefy Gas for Export	Energy Use: Industrial	2-AEO2022.39.ref20;	quads	0	0	0	0	0	0	0	--
Natural Gas Subtotal	Energy Use: Industrial	2-AEO2022.40.ref20;	quads	1.391705	1.50239	1.514377	1.591784	1.690938	1.825074	1.825074	1.20%
Metallurgical Coal	Energy Use: Industrial	2-AEO2022.41.ref20;	quads	0	0	0	0	0	0	0	--
Other Industrial Coal	Energy Use: Industrial	2-AEO2022.42.ref20;	quads	0.032169	0.032942	0.033021	0.032913	0.033009	0.032929	0.032929	0.20%
Coal-to-Liquids Heat and Power	Energy Use: Industrial	2-AEO2022.44.ref20;	quads	0	0	0	0	0	0	0	--
Net Coal Coke Imports	Energy Use: Industrial	2-AEO2022.45.ref20;	quads	0	0	0	0	0	0	0	--
Coal Subtotal	Energy Use: Industrial	2-AEO2022.46.ref20;	quads	0.032169	0.032942	0.033021	0.032913	0.033009	0.032929	0.032929	0.20%
Biofuels Heat and Coproducts	Energy Use: Industrial	2-AEO2022.47.ref20;	quads	0.132263	0.134045	0.137036	0.142444	0.147944	0.156365	0.156365	0.60%
Renewable Energy	Energy Use: Industrial	2-AEO2022.48.ref20;	quads	0.160026	0.170007	0.180213	0.190949	0.20387	0.216819	0.216819	1.20%
Purchased Electricity	Energy Use: Industrial	2-AEO2022.49.ref20;	quads	0.330143	0.343158	0.356405	0.376484	0.398401	0.420301	0.420301	1.00%
Delivered Energy	Energy Use: Industrial	2-AEO2022.50.ref20;	quads	2.583444	2.755717	2.824528	2.970392	3.109678	3.309913	3.309913	0.90%
Electricity Related Losses	Energy Use: Industrial	2-AEO2022.51.ref20;	quads	0.441174	0.426342	0.415178	0.415376	0.453507	0.485804	0.485804	0.50%
Total	Energy Use: Industrial	2-AEO2022.52.ref20;	quads	3.024617	3.182059	3.239705	3.385768	3.563185	3.795717	3.795717	0.90%
Transportation		2-AEO2022.55.									
Propane	Energy Use: Transport	2-AEO2022.56.ref20;	quads	0.001549	0.001714	0.001897	0.002104	0.002334	0.002613	0.002613	2.90%
Motor Gasoline	Energy Use: Transport	2-AEO2022.57.ref20;	quads	2.296553	2.22489	2.179579	2.162257	2.175186	2.217283	2.217283	0.00%
of which: E85	Energy Use: Transport	2-AEO2022.58.ref20;	quads	0.00259	0.002369	0.00218	0.002166	0.002287	0.002508	0.002508	-0.40%

Jet Fuel	Energy Use: Transport 2-AEO2022.59.ref2(quads	0.910222	0.972329	1.015869	1.073856	1.137677	1.206217	1.90%
Distillate Fuel Oil	Energy Use: Transport 2-AEO2022.60.ref2(quads	0.73813	0.716777	0.701998	0.698035	0.700877	0.706631	-0.10%
Residual Fuel Oil	Energy Use: Transport 2-AEO2022.61.ref2(quads	0.267148	0.250493	0.254815	0.249934	0.232484	0.229225	-0.70%
Other Petroleum	Energy Use: Transport 2-AEO2022.62.ref2(quads	0.024174	0.024414	0.024532	0.024682	0.024839	0.024947	0.20%
Petroleum and Other Liquids Subtotal	Energy Use: Transport 2-AEO2022.63.ref2(quads	4.237778	4.190616	4.17869	4.210868	4.273397	4.386915	0.40%
Pipeline and Distribution Fuel Natural Gas	Energy Use: Transport 2-AEO2022.64.ref2(quads	0.043299	0.043822	0.042698	0.043932	0.045787	0.046808	0.10%
Compressed / Liquefied Natural Gas	Energy Use: Transport 2-AEO2022.65.ref2(quads	0.042541	0.052694	0.055827	0.065271	0.081448	0.090938	3.40%
Hydrogen	Energy Use: Transport 2-AEO2022.66.ref2(quads	0.000519	0.000686	0.000919	0.00117	0.001431	0.00167	5.70%
Purchased Electricity	Energy Use: Transport 2-AEO2022.67.ref2(quads	0.023768	0.034753	0.046753	0.06111	0.078173	0.097892	7.10%
Delivered Energy	Energy Use: Transport 2-AEO2022.68.ref2(quads	4.347905	4.322571	4.324887	4.382352	4.480236	4.624223	0.50%
Electricity Related Losses	Energy Use: Transport 2-AEO2022.69.ref2(quads	0.031762	0.043178	0.054462	0.067423	0.088985	0.113148	6.50%
Total	Energy Use: Transport 2-AEO2022.70.ref2(quads	4.379667	4.365748	4.37935	4.449776	4.569221	4.737371	0.50%
Unspecified Sector	2-AEO2022.72.							
Total	Energy Use: Unspecifi 2-AEO2022.76.ref2(quads	-0.03675	-0.03764	-0.03827	-0.03946	-0.04095	-0.04262	--
Delivered Energy Consumption	All Sectors 2-AEO2022.78.							
Liquefied Petroleum Gases and Other	Energy Use: Delivered 2-AEO2022.79.ref2(quads	0.065493	0.064613	0.064079	0.064581	0.065354	0.066535	-0.80%
Motor Gasoline	Energy Use: Delivered 2-AEO2022.80.ref2(quads	2.401539	2.331986	2.288565	2.273685	2.289193	2.33391	0.00%
of which: E85	Energy Use: Delivered 2-AEO2022.81.ref2(quads	0.00259	0.002369	0.00218	0.002166	0.002287	0.002508	-0.40%
Jet Fuel	Energy Use: Delivered 2-AEO2022.82.ref2(quads	0.890043	0.950773	0.993348	1.05005	1.112455	1.179476	1.60%
Kerosene	Energy Use: Delivered 2-AEO2022.83.ref2(quads	0.000131	0.000113	0.000046	0.000035	0.000024	0.000021	-4.40%
Distillate Fuel Oil	Energy Use: Delivered 2-AEO2022.84.ref2(quads	0.893008	0.873617	0.860354	0.860103	0.867006	0.876918	0.00%
Residual Fuel Oil	Energy Use: Delivered 2-AEO2022.85.ref2(quads	0.269109	0.252507	0.256817	0.25181	0.234075	0.230732	-0.70%
Petrochemical Feedstocks	Energy Use: Delivered 2-AEO2022.86.ref2(quads	0	0	0	0	0	0	--
Other Petroleum	Energy Use: Delivered 2-AEO2022.87.ref2(quads	0.394959	0.427567	0.452681	0.478512	0.471282	0.487145	0.10%
Petroleum and Other Liquids Subtotal	Energy Use: Delivered 2-AEO2022.88.ref2(quads	4.914281	4.901177	4.915889	4.978774	5.039388	5.174737	0.30%
Natural Gas	Energy Use: Delivered 2-AEO2022.89.ref2(quads	2.178006	2.29274	2.270175	2.373284	2.485763	2.601939	0.80%
Natural-Gas-to-Liquids Heat and Power	Energy Use: Delivered 2-AEO2022.90.ref2(quads	0	0	0	0	0	0	--
Lease and Plant Fuel	Energy Use: Delivered 2-AEO2022.91.ref2(quads	0.270205	0.307828	0.318785	0.308481	0.315875	0.348114	0.70%
Natural Gas to Liquefy Gas for Export	Energy Use: Delivered 2-AEO2022.92.ref2(quads	0	0	0	0	0	0	--
Pipeline and Distribution Fuel Natural Gas	Energy Use: Delivered 2-AEO2022.93.ref2(quads	0.043299	0.043822	0.042698	0.043932	0.045787	0.046808	0.10%
Natural Gas Subtotal	Energy Use: Delivered 2-AEO2022.94.ref2(quads	2.491511	2.64439	2.631658	2.725698	2.847426	2.996861	0.80%
Metallurgical Coal	Energy Use: Delivered 2-AEO2022.95.ref2(quads	0	0	0	0	0	0	--
Other Coal	Energy Use: Delivered 2-AEO2022.96.ref2(quads	0.037863	0.038636	0.038715	0.038607	0.038703	0.038623	0.10%
Coal-to-Liquids Heat and Power	Energy Use: Delivered 2-AEO2022.97.ref2(quads	0	0	0	0	0	0	--
Net Coal Coke Imports	Energy Use: Delivered 2-AEO2022.98.ref2(quads	0	0	0	0	0	0	--
Coal Subtotal	Energy Use: Delivered 2-AEO2022.99.ref2(quads	0.037863	0.038636	0.038715	0.038607	0.038703	0.038623	0.10%
Biofuels Heat and Coproducts	Energy Use: Delivered 2-AEO2022.100.ref(quads	0.132263	0.134045	0.137036	0.142444	0.147944	0.156365	0.60%
Renewable Energy	Energy Use: Delivered 2-AEO2022.101.ref(quads	0.258648	0.263994	0.266854	0.270868	0.278336	0.286346	0.30%
Hydrogen	Energy Use: Delivered 2-AEO2022.102.ref(quads	0.000519	0.000686	0.000919	0.00117	0.001431	0.00167	5.70%
Purchased Electricity	Energy Use: Delivered 2-AEO2022.103.ref(quads	1.416923	1.429191	1.452676	1.508045	1.568569	1.635525	0.60%
Delivered Energy	Energy Use: Delivered 2-AEO2022.104.ref(quads	9.252007	9.412119	9.443747	9.665607	9.921798	10.29013	0.50%
Electricity Related Losses	Energy Use: Delivered 2-AEO2022.105.ref(quads	1.893448	1.775639	1.69223	1.663831	1.785529	1.890415	0.00%
Total	Energy Use: Delivered 2-AEO2022.106.ref(quads	11.14546	11.18776	11.13598	11.32944	11.70733	12.18054	0.40%
Electric Power	2-AEO2022.109.							
Distillate Fuel Oil	Energy Use: Electric Pt 2-AEO2022.110.ref(quads	0.017738	0.016709	0.016433	0.015666	0.01296	0.013631	-1.10%
Residual Fuel Oil	Energy Use: Electric Pt 2-AEO2022.111.ref(quads	0.024784	0.021913	0.020558	0.017432	0.007533	0.007848	-4.10%
Petroleum and Other Liquids Subtotal	Energy Use: Electric Pt 2-AEO2022.112.ref(quads	0.042523	0.038622	0.036991	0.033097	0.020493	0.021479	-2.60%
Natural Gas	Energy Use: Electric Pt 2-AEO2022.113.ref(quads	0.76692	0.743707	0.544685	0.500153	0.491513	0.50115	-2.00%
Steam Coal	Energy Use: Electric Pt 2-AEO2022.114.ref(quads	0.057894	0.019272	0.019018	0.018439	0.015656	0.016318	-4.00%
Nuclear / Uranium	Energy Use: Electric Pt 2-AEO2022.115.ref(quads	0.186961	0.095523	0.095523	0.095523	0.095523	0.095523	-3.60%
Renewable Energy	Energy Use: Electric Pt 2-AEO2022.116.ref(quads	2.227976	2.273521	2.415921	2.492009	2.700025	2.860294	1.30%
Non-biogenic Municipal Waste	Energy Use: Electric Pt 2-AEO2022.117.ref(quads	0.005677	0.005677	0.005677	0.005677	0.005677	0.005677	0.00%
Electricity Imports	Energy Use: Electric Pt 2-AEO2022.118.ref(quads	0.022422	0.028506	0.02709	0.026978	0.025212	0.025498	-1.20%
Total	Energy Use: Electric Pt 2-AEO2022.119.ref(quads	3.310371	3.204829	3.144905	3.171877	3.354098	3.52594	0.30%
Total Energy Consumption	2-AEO2022.121.							
Liquefied Petroleum Gases and Other	Energy Use: Total: Liqi 2-AEO2022.122.ref(quads	0.065493	0.064613	0.064079	0.064581	0.065354	0.066535	-0.80%
Motor Gasoline	Energy Use: Total: Mo 2-AEO2022.123.ref(quads	2.401539	2.331986	2.288565	2.273685	2.289193	2.33391	0.00%

of which: E85	Energy Use: Total: E85 2-AEO2022.124.ref: quads	0.00259	0.002369	0.00218	0.002166	0.002287	0.002508	-0.40%
Jet Fuel	Energy Use: Total: Jet 2-AEO2022.125.ref: quads	0.890043	0.950773	0.993348	1.05005	1.112455	1.179476	1.60%
Kerosene	Energy Use: Total: Ker 2-AEO2022.126.ref: quads	0.000131	0.000113	0.000046	0.000035	0.000024	0.000021	-4.40%
Distillate Fuel Oil	Energy Use: Total: Dis 2-AEO2022.127.ref: quads	0.910746	0.890325	0.876787	0.875769	0.879966	0.890548	0.00%
Residual Fuel Oil	Energy Use: Total: Res 2-AEO2022.128.ref: quads	0.293894	0.274421	0.277375	0.269241	0.241607	0.238581	-0.90%
Petrochemical Feedstocks	Energy Use: Total: Pet 2-AEO2022.129.ref: quads	0	0	0	0	0	0	--
Other Petroleum	Energy Use: Total: Oth 2-AEO2022.130.ref: quads	0.394959	0.427567	0.452681	0.478512	0.471282	0.487145	0.10%
Petroleum and Other Liquids Subtotal	Energy Use: Total: Liq 2-AEO2022.131.ref: quads	4.956804	4.939799	4.952881	5.011871	5.059881	5.196216	0.30%
Natural Gas	Energy Use: Total: Nat 2-AEO2022.132.ref: quads	2.944926	3.036447	2.81486	2.873437	2.977276	3.103089	0.20%
Natural-Gas-to-Liquids Heat and Power	Energy Use: Total: Nat 2-AEO2022.133.ref: quads	0	0	0	0	0	0	--
Lease and Plant Fuel	Energy Use: Total: Lea 2-AEO2022.134.ref: quads	0.270205	0.307828	0.318785	0.308481	0.315875	0.348114	0.70%
Natural Gas to Liquefy Gas for Export	Energy Use: Total: Liq 2-AEO2022.135.ref: quads	0	0	0	0	0	0	--
Pipeline and Distribution Fuel Natural Gas	Energy Use: Total: Pip 2-AEO2022.136.ref: quads	0.043299	0.043822	0.042698	0.043932	0.045787	0.046808	0.10%
Natural Gas Subtotal	Energy Use: Total: Nat 2-AEO2022.137.ref: quads	3.25843	3.388097	3.176343	3.225851	3.338938	3.498011	0.20%
Metallurgical Coal	Energy Use: Total: Me 2-AEO2022.138.ref: quads	0	0	0	0	0	0	--
Other Coal	Energy Use: Total: Oth 2-AEO2022.139.ref: quads	0.095756	0.057908	0.057734	0.057047	0.054359	0.054941	-1.70%
Coal-to-Liquids Heat and Power	Energy Use: Total: CoL 2-AEO2022.140.ref: quads	0	0	0	0	0	0	--
Net Coal Coke Imports	Energy Use: Total: Net 2-AEO2022.141.ref: quads	0	0	0	0	0	0	--
Coal Subtotal	Energy Use: Total: CoL 2-AEO2022.142.ref: quads	0.095756	0.057908	0.057734	0.057047	0.054359	0.054941	-1.70%
Nuclear / Uranium	Energy Use: Total: Nuc 2-AEO2022.143.ref: quads	0.186961	0.095523	0.095523	0.095523	0.095523	0.095523	-3.60%
Biofuels Heat and Coproducts	Energy Use: Total: Bio 2-AEO2022.144.ref: quads	0.132263	0.134045	0.137036	0.142444	0.147944	0.156365	0.60%
Renewable Energy	Energy Use: Total: Ren 2-AEO2022.145.ref: quads	2.486624	2.537515	2.682774	2.762877	2.978361	3.14664	1.20%
Hydrogen	Energy Use: Total: Hyc 2-AEO2022.146.ref: quads	0.000519	0.000686	0.000919	0.00117	0.001431	0.00167	5.70%
Non-biogenic Municipal Waste	Energy Use: Total: Non 2-AEO2022.147.ref: quads	0.005677	0.005677	0.005677	0.005677	0.005677	0.005677	0.00%
Electricity Imports	Energy Use: Total: Ele 2-AEO2022.148.ref: quads	0.022422	0.028506	0.02709	0.026978	0.025212	0.025498	-1.20%
Total	Energy Use: Total: Tot 2-AEO2022.149.ref: quads	11.14546	11.18776	11.13598	11.32944	11.70733	12.18054	0.40%
Energy Use & Related Statistics	2-AEO2022.151.							
Delivered Energy Use	Energy Use & Related 2-AEO2022.152.ref: quads	9.252007	9.412119	9.443747	9.665607	9.921798	10.29013	0.50%
Total Energy Use	Energy Use & Related 2-AEO2022.153.ref: quads	11.14546	11.18776	11.13598	11.32944	11.70733	12.18054	0.40%
Ethanol (denatured) Consumed in Motor Gasoline	Energy Use & Related 2-AEO2022.154.ref: quads	0.170788	0.165806	0.162664	0.161644	0.162847	0.166163	0.00%
Population (millions)	Energy Use & Related 2-AEO2022.155.ref: millions	56.13601	57.91969	59.5939	61.06147	62.45216	63.76794	0.50%
Gross Domestic Product (billion 2012 dollars)	Energy Use & Related 2-AEO2022.156.ref: billion 2012 \$	22061.07	24555	27278.78	30134.96	33192.91	36652.42	2.20%
Carbon Dioxide Emissions (million metric tons carbon dioxide)	Energy Use & Related 2-AEO2022.157.							
	Energy Use & Related 2-AEO2022.158.ref: MMmtCO2	495.8538	498.6444	487.5997	494.0645	503.3801	520.5963	0.20%