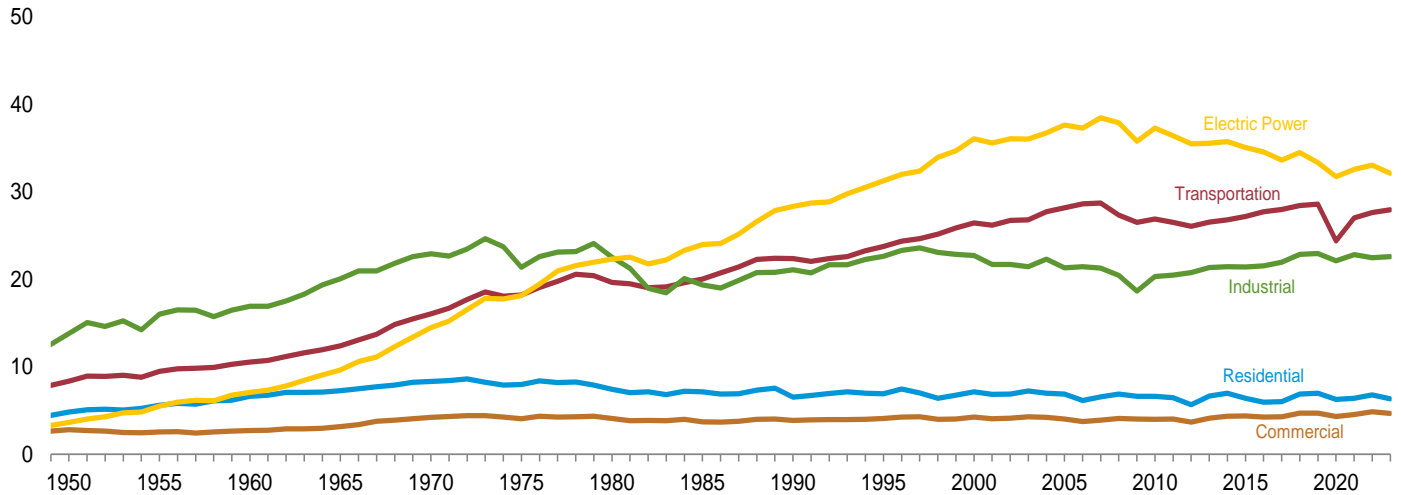


2. Energy Consumption By Sector

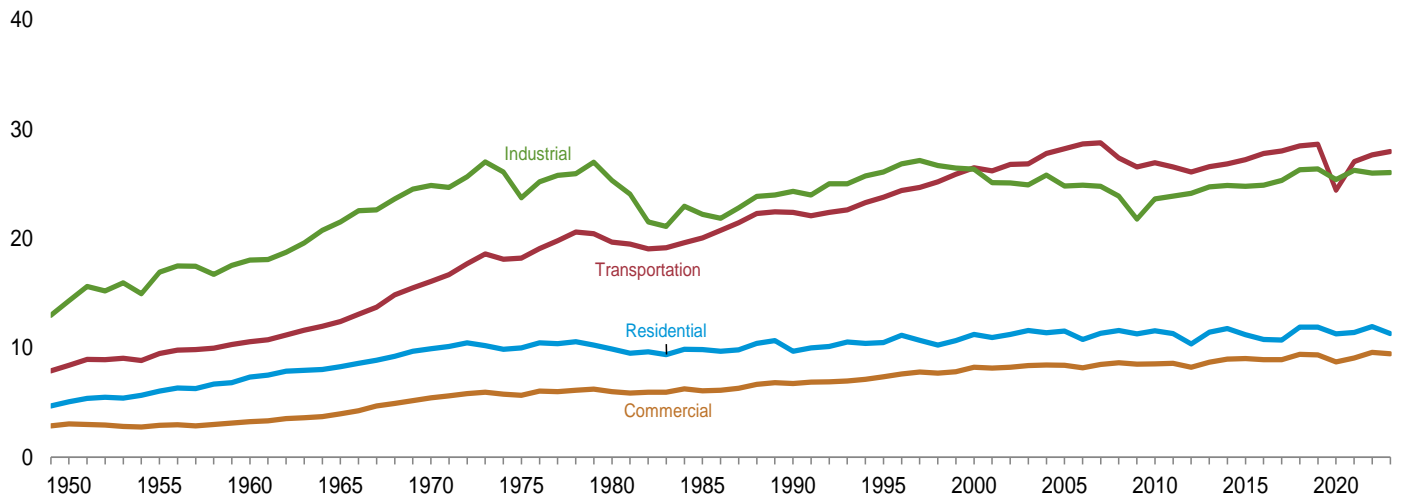
Figure 2.1a Energy Consumption by Sector, 1949–2023

(Quadrillion Btu)

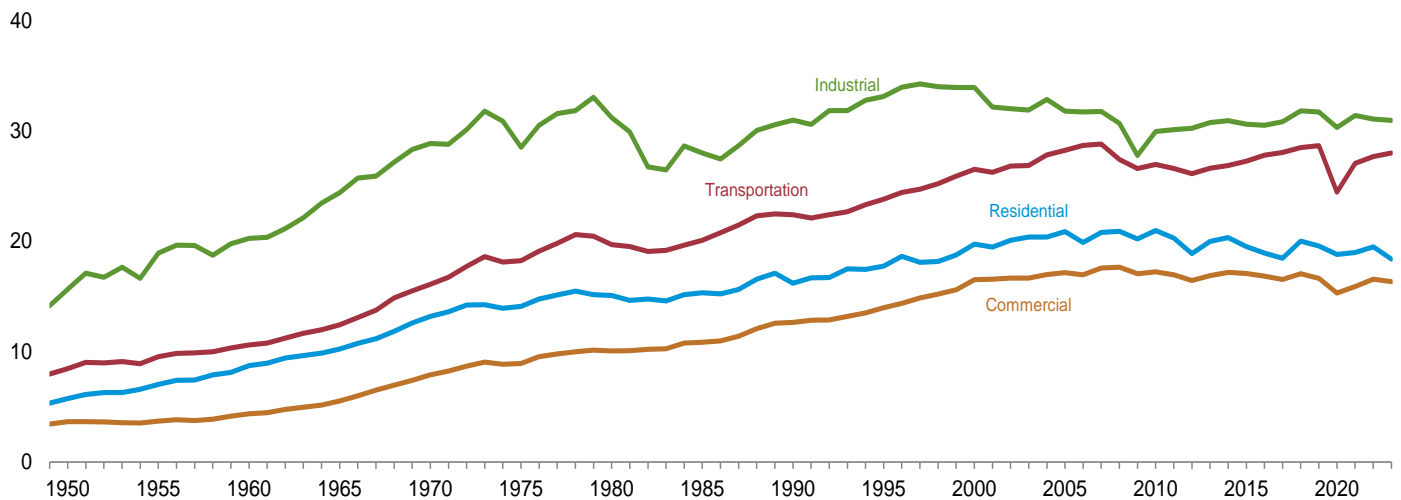
Primary Consumption by Sector



End-Use Consumption by End-Use Sector



Total Consumption by End-Use Sector



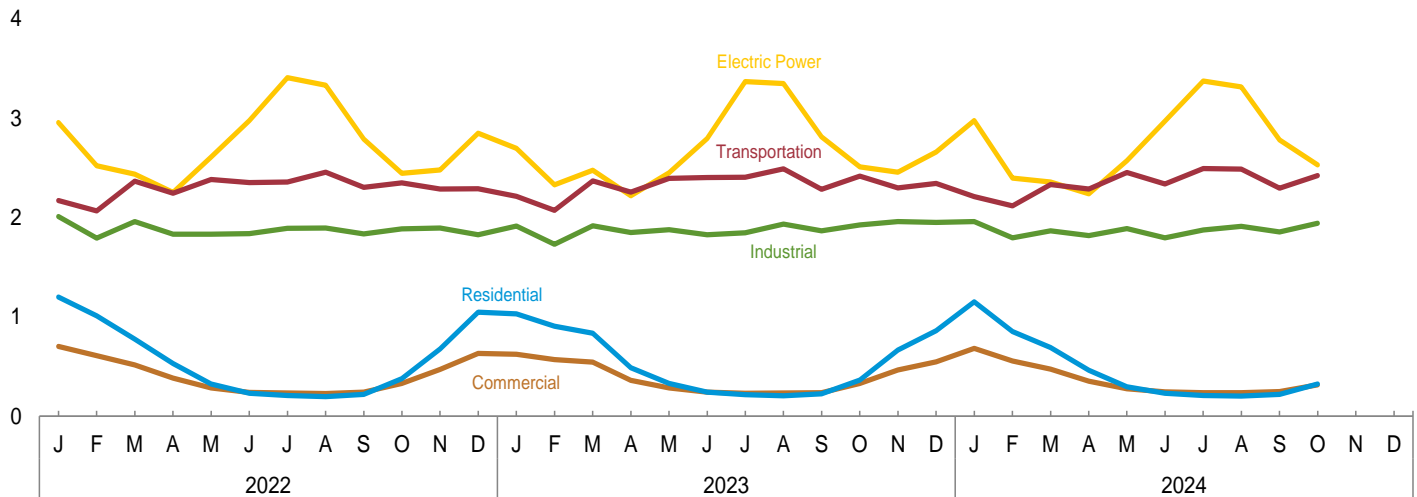
Web Page: <http://www.eia.gov/totalenergy/data/monthly/#consumption>.

Source: Tables 2.1a–2.1b.

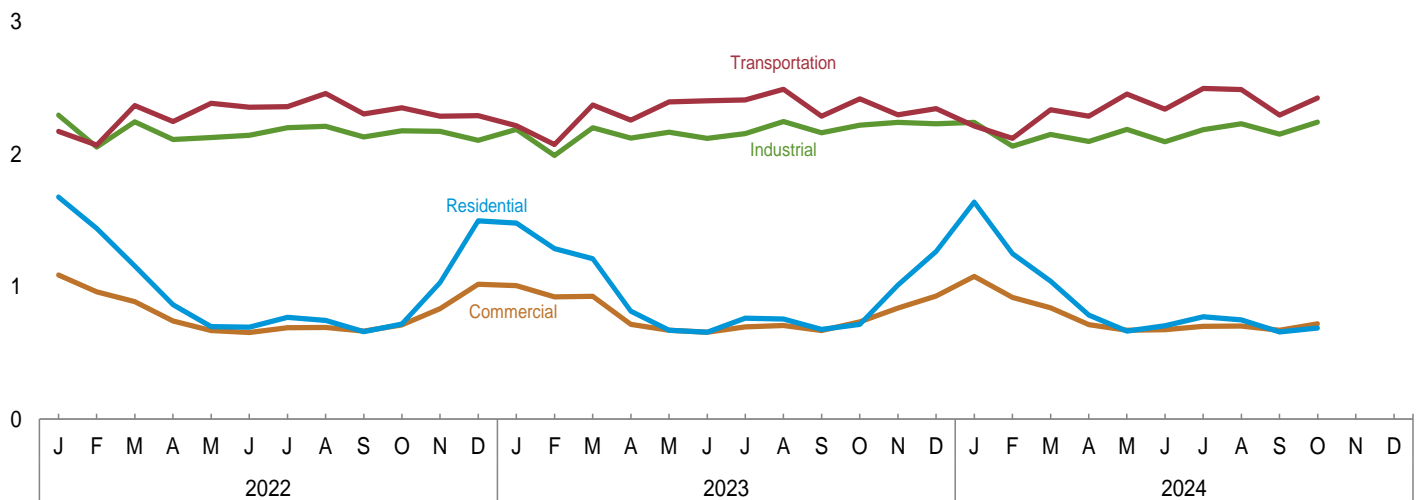
Figure 2.1b Energy Consumption by Sector, Monthly

(Quadrillion Btu)

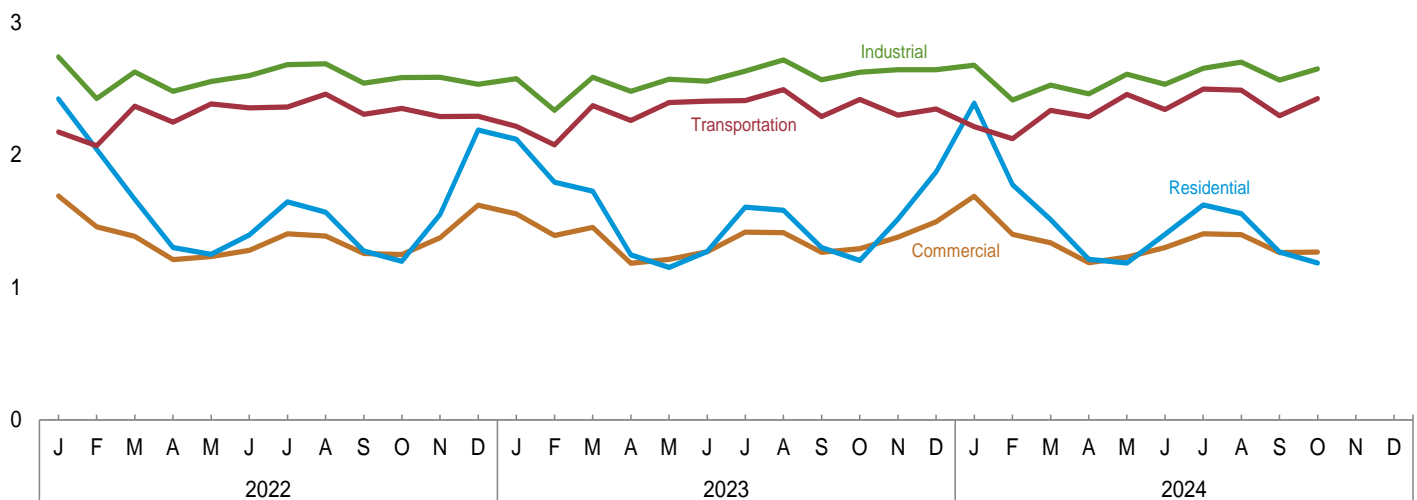
Primary Consumption by Sector



End-Use Consumption by End-Use Sector



Total Consumption by End-Use Sector



Web Page: <http://www.eia.gov/totalenergy/data/monthly/#consumption>.

Source: Tables 2.1a—2.1b.

Table 2.1a Energy Consumption: Residential, Commercial, and Industrial Sectors
(Trillion Btu)

	End-Use Sectors														
	Residential					Commercial ^a					Industrial ^a				
	Primary ^b	Electricity ^c	End Use ^d	Electrical System Energy Losses ^e	Total ^f	Primary ^b	Electricity ^c	End Use ^d	Electrical System Energy Losses ^e	Total ^f	Primary ^b	Electricity ^c	End Use ^d	Electrical System Energy Losses ^e	Total ^f
1950 Total	4,830	246	5,076	661	5,736	2,834	225	3,059	604	3,663	13,820	500	14,319	1,340	15,659
1955 Total	5,608	438	6,046	990	7,036	2,561	350	2,911	791	3,702	16,046	887	16,933	2,005	18,938
1960 Total	6,651	687	7,339	1,387	8,726	2,723	543	3,266	1,096	4,362	16,923	1,107	18,030	2,234	20,264
1965 Total	7,280	993	8,273	1,950	10,223	3,177	789	3,966	1,549	5,514	20,063	1,463	21,526	2,873	24,399
1970 Total	8,323	1,591	9,914	3,264	13,178	4,237	1,201	5,438	2,464	7,902	22,918	1,948	24,866	3,995	28,862
1975 Total	7,990	2,007	9,997	4,103	14,100	4,059	1,598	5,657	3,267	8,924	21,378	2,346	23,725	4,797	28,522
1980 Total	7,440	2,448	9,888	5,194	15,082	4,105	1,906	6,011	4,044	10,055	22,527	2,781	25,308	5,900	31,209
1985 Total	7,149	2,709	9,858	5,486	15,344	3,732	2,351	6,084	4,762	10,845	19,363	2,855	22,218	5,782	28,000
1990 Total	6,552	3,153	9,705	6,501	16,206	3,892	2,860	6,753	5,898	12,650	21,100	3,226	24,326	6,652	30,978
1995 Total	6,934	3,557	10,491	7,256	17,747	4,099	3,252	7,352	6,634	13,985	22,622	3,455	26,077	7,048	33,125
2000 Total	7,156	4,069	11,225	8,507	19,732	4,277	3,956	8,233	8,271	16,504	22,721	3,631	26,352	7,592	33,945
2005 Total	6,901	4,638	11,538	9,340	20,879	4,051	4,351	8,401	8,762	17,163	21,322	3,477	24,799	7,003	31,803
2010 Total	6,635	4,933	11,568	9,419	20,987	4,014	4,539	8,553	8,666	17,219	20,317	3,314	23,631	6,328	29,958
2011 Total	6,465	4,855	11,319	8,967	20,286	4,051	4,531	8,583	8,370	16,952	20,494	3,382	23,876	6,247	30,123
2012 Total	5,672	4,690	10,362	8,510	18,871	3,702	4,528	8,230	8,216	16,446	20,765	3,363	24,128	6,103	30,230
2013 Total	6,669	4,759	11,428	8,554	19,983	4,134	4,562	8,696	8,200	16,897	21,357	3,362	24,719	6,043	30,762
2014 Total	6,976	4,801	11,778	8,560	20,338	4,353	4,614	8,966	8,226	17,192	21,449	3,404	24,853	6,068	30,921
2015 Total	6,423	4,791	11,214	8,306	19,520	4,398	4,643	9,040	8,050	17,090	21,411	3,366	24,777	5,836	30,613
2016 Total	5,968	4,815	10,783	8,146	18,929	4,270	4,665	8,935	7,893	16,828	21,549	3,333	24,882	5,639	30,520
2017 Total	6,017	4,704	10,721	7,751	18,471	4,308	4,616	8,924	7,606	16,530	21,951	3,358	25,309	5,534	30,843
2018 Total	6,885	5,013	11,897	8,126	20,023	4,705	4,715	9,419	7,643	17,062	22,864	3,414	26,278	5,535	31,813
2019 Total	6,974	4,914	11,889	7,686	19,575	4,722	4,643	9,365	7,263	16,628	22,946	3,420	26,366	5,349	31,716
2020 Total	6,296	4,997	11,293	7,503	18,796	4,325	4,393	8,718	6,595	15,313	22,128	3,272	25,401	4,913	30,314
2021 Total	6,409	5,017	11,426	7,564	18,991	4,537	4,533	9,070	6,834	15,904	22,833	3,414	26,247	5,147	31,394
2022 January	R 1,199	479	R 1,678	747	R 2,425	701	388	1,089	604	1,692	R 2,009	287	R 2,296	446	R 2,742
February	1,011	428	1,439	605	2,044	609	352	961	498	1,458	R 1,793	262	R 2,055	371	R 2,426
March	775	380	1,155	512	1,667	517	371	887	499	1,386	R 1,958	286	R 2,244	385	R 2,628
April	531	332	863	438	1,301	383	357	740	470	1,210	R 1,831	281	R 2,112	370	R 2,482
May	324	376	699	552	1,251	283	386	669	566	1,235	R 1,832	294	R 2,126	431	R 2,557
June	229	465	694	704	1,398	R 238	415	653	628	1,281	R 1,839	303	R 2,142	458	2,600
July	208	561	768	878	1,647	R 232	457	R 689	716	1,405	R 1,891	309	R 2,200	484	R 2,683
August	197	547	744	824	1,568	228	463	691	698	1,388	R 1,894	318	R 2,211	479	R 2,690
September	219	441	660	618	1,277	241	424	664	593	1,258	R 1,835	295	R 2,131	414	2,544
October	377	340	717	480	R 1,198	328	382	710	539	1,249	R 1,886	290	R 2,176	409	2,585
November	678	352	1,030	523	1,552	470	365	834	541	R 1,376	R 1,894	279	R 2,173	414	2,587
December	1,048	448	1,496	693	2,190	631	389	R 1,019	601	1,621	R 1,825	279	R 2,104	432	R 2,536
Total	6,793	5,150	11,943	7,553	19,496	4,860	4,746	9,605	6,961	16,566	22,488	3,482	25,970	5,107	31,077
2023 January	R 1,030	449	R 1,479	R 641	R 2,120	R 622	385	R 1,007	549	R 1,556	R 1,913	274	R 2,187	391	R 2,578
February	R 905	383	R 1,287	R 509	R 1,796	568	354	922	471	1,393	R 1,730	261	R 1,991	347	R 2,338
March	R 834	377	R 1,211	R 516	R 1,727	544	384	928	526	1,454	R 1,918	283	R 2,200	387	R 2,587
April	487	328	815	432	1,247	361	355	716	468	1,184	R 1,849	273	R 2,122	360	2,482
May	328	342	670	R 481	1,151	284	386	R 706	543	1,213	R 1,878	289	R 2,167	406	R 2,574
June	241	414	655	618	1,273	243	412	655	615	1,270	R 1,825	294	R 2,119	439	2,558
July	216	545	761	R 845	1,606	231	465	R 697	721	R 1,418	R 1,846	309	R 2,155	R 479	R 2,634
August	R 205	551	R 756	R 827	1,583	R 234	472	R 706	709	R 1,415	R 1,933	314	R 2,247	472	R 2,719
September	224	453	677	R 625	R 1,302	R 237	432	669	596	R 1,265	R 1,867	295	R 2,162	407	R 2,569
October	R 362	353	R 715	R 489	R 1,204	330	403	R 734	560	R 1,293	R 1,926	293	R 2,219	407	2,626
November	R 664	348	1,012	503	R 1,515	R 464	374	839	542	1,381	R 1,960	280	R 2,240	405	R 2,645
December	R 861	406	R 1,266	606	1,873	R 548	380	R 929	568	R 1,497	R 1,951	279	R 2,230	416	R 2,646
Total	6,356	4,947	11,304	7,077	18,381	4,666	4,804	9,470	6,873	16,343	22,597	3,444	26,041	4,926	30,967
2024 January	1,150	489	1,639	753	2,392	R 682	396	1,078	611	1,689	R 1,958	284	R 2,241	437	R 2,678
February	R 853	397	R 1,250	527	R 1,777	554	364	918	483	1,402	R 1,794	267	R 2,061	355	R 2,416
March	692	351	1,042	471	R 1,514	R 472	369	R 841	496	1,338	R 1,866	283	R 2,149	381	R 2,529
April	R 461	325	R 786	427	1,212	351	361	713	475	1,188	R 1,817	279	R 2,096	367	R 2,463
May	295	368	664	522	1,186	276	395	R 671	560	R 1,231	R 1,889	299	R 2,188	423	R 2,611
June	231	474	705	696	1,401	R 245	429	674	629	1,303	R 1,796	299	R 2,095	438	R 2,534
July	207	565	772	853	R 1,625	R 235	467	701	704	R 1,406	R 1,875	311	R 2,186	469	R 2,656
August	203	545	748	811	1,559	235	467	703	696	1,399	R 1,912	317	R 2,229	472	2,702
September	R 219	438	R 657	612	R 1,269	247	424	671	592	1,263	R 1,854	297	R 2,152	415	2,567
October	323	365	688	497	1,185	315	404	719	550	1,269	R 1,943	300	R 2,243	409	2,651
10-Month Total ...	4,634	4,316	8,950	6,168	15,118	3,612	4,077	7,690	5,797	13,487	18,704	2,936	21,640	4,167	25,807
2023 10-Month Total ...	4,832	4,194	9,026	5,982	15,009	3,654	4,049	7,703	5,757	13,461	18,685	2,885	21,570	4,094	25,664
2022 10-Month Total ...	5,069	4,349	9,418	6,358	15,776	3,760	3,992	7,752	5,810	13,562	18,769	2,924	21,693	4,247	25,940

^a Includes energy consumed at combined-heat-and-power (CHP) and electricity-only plants within the sector.

^b Energy consumed in the form that it is first accounted for, before any transformation to secondary or tertiary forms of energy. See "Primary Energy Consumption" in Glossary.

^c Electricity sold to the sector. See "Electricity Sales to Ultimate Customers" in Glossary.

^d Sum of "Primary" and "Electricity." See "End-Use Energy Consumption" in Glossary.

^e Calculated as the difference between primary energy consumed by the electric power sector and the energy content of electricity sales to ultimate customers sent to the end-use sectors. Allocated proportionally to the electricity sales to ultimate customers in each end-use sector. See Note 1, "Electrical System Energy Losses,"

at end of section.

^f Equal to end-use energy consumption plus electrical system energy losses.

R=Revised.

Notes: • Data are estimates. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 2, "Other Energy Losses," at end of section. • See Note 3, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#consumption> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: Tables 2.2–2.4.

Table 2.1b Energy Consumption: Transportation Sector, Total End-Use Sectors, and Electric Power Sector (Trillion Btu)

	End-Use Sectors										Electric Power Sector ^a	Primary Total ^h
	Transportation					Total						
	Primary ^b	Elec- tricity ^c	End Use ^d	Electrical System Energy Losses ^e	Total ^f	Primary ^b	Elec- tricity ^c	End Use ^d	Electrical System Energy Losses ^e	Total ^g	Primary ^b	
1950 Total	8,383	23	8,407	62	8,469	29,867	994	30,861	2,666	33,527	3,661	33,527
1955 Total	9,474	20	9,494	45	9,539	33,690	1,695	35,385	3,830	39,215	5,525	39,215
1960 Total	10,560	10	10,570	21	10,591	36,856	2,348	39,204	4,738	43,942	7,086	43,942
1965 Total	12,399	10	12,409	20	12,428	42,919	3,254	46,173	6,392	52,565	9,646	52,565
1970 Total	16,062	11	16,073	22	16,094	51,540	4,751	56,291	9,745	66,036	14,495	66,036
1975 Total	18,211	10	18,221	21	18,241	51,638	5,961	57,599	12,188	69,787	18,149	69,788
1980 Total	19,659	11	19,670	23	19,694	53,731	7,146	60,878	15,162	76,040	22,309	76,038
1985 Total	20,042	14	20,056	29	20,084	50,285	7,929	58,214	16,059	74,273	23,988	74,268
1990 Total	22,366	16	22,382	33	22,415	53,910	9,255	63,165	19,084	82,250	28,340	82,256
1995 Total	23,757	17	23,774	35	23,808	57,412	10,281	67,694	20,973	88,666	31,254	88,668
2000 Total	26,456	18	26,474	38	26,512	60,610	11,674	72,284	24,409	96,693	36,083	96,694
2005 Total	28,179	26	28,205	52	28,257	60,452	12,491	72,944	25,158	98,101	37,649	98,101
2010 Total	26,894	26	26,920	50	26,970	57,860	12,812	70,672	24,463	95,135	37,275	95,142
2011 Total	26,523	26	26,549	48	26,598	57,533	12,794	70,327	23,632	93,959	36,426	93,966
2012 Total	26,057	25	26,082	45	26,127	56,195	12,606	68,801	22,874	91,675	35,480	91,677
2013 Total	26,541	26	26,567	47	26,614	58,701	12,709	71,410	22,845	94,255	35,554	94,253
2014 Total	26,802	26	26,828	47	26,875	59,580	12,845	72,425	22,902	95,326	35,747	95,332
2015 Total	27,182	26	27,208	45	27,253	59,414	12,826	72,239	22,237	94,476	35,063	94,478
2016 Total	27,741	26	27,767	43	27,810	59,529	12,838	72,366	21,720	94,087	34,558	94,082
2017 Total	27,979	26	28,005	42	28,047	60,255	12,704	72,959	20,932	93,891	33,636	93,892
2018 Total	28,435	26	28,461	42	28,504	62,888	13,168	76,056	21,346	97,402	34,514	97,395
2019 Total	28,602	26	28,628	41	28,669	63,245	13,004	76,249	20,339	96,587	33,343	96,593
2020 Total	24,397	22	24,419	34	24,453	^R 57,146	12,685	^R 69,831	^R 19,045	88,875	^R 31,730	88,872
2021 Total	27,015	22	27,037	33	27,070	60,794	12,986	73,780	19,578	93,358	32,564	93,353
2022 January	^R 2,170	2	^R 2,172	3	^R 2,175	^R 6,080	1,155	^R 7,235	1,800	^R 9,035	2,955	^R 9,036
February	2,066	2	2,068	3	2,071	^R 5,479	1,044	^R 6,523	1,477	^R 8,000	2,520	^R 7,998
March	2,365	2	2,367	3	2,370	^R 5,615	1,038	^R 6,653	1,399	^R 8,052	2,437	^R 8,047
April	2,245	2	2,246	2	2,249	^R 4,990	972	^R 5,962	1,280	^R 7,242	2,252	^R 7,238
May	2,382	2	2,384	3	2,386	4,821	1,057	5,878	1,552	7,430	2,609	7,428
June	2,352	2	2,354	3	2,356	4,659	1,184	5,843	1,793	^R 7,635	2,977	7,638
July	2,358	2	2,360	3	2,363	^R 4,689	1,328	^R 6,017	2,081	^R 8,098	3,409	^R 8,104
August	2,456	2	2,458	3	2,461	4,774	1,329	6,104	2,003	8,107	3,333	8,112
September	2,303	2	2,305	3	^R 2,308	4,597	1,162	5,759	1,627	^R 7,387	2,789	^R 7,388
October	2,349	2	2,350	3	2,353	4,940	1,014	5,954	1,431	^R 7,384	2,445	7,381
November	2,286	2	2,288	3	2,291	^R 5,328	997	^R 6,325	1,480	7,805	2,478	7,802
December	^R 2,289	2	2,291	3	2,294	5,792	1,118	^R 6,911	1,730	^R 8,640	2,848	^R 8,640
Total	27,621	23	27,643	33	27,676	61,762	13,400	75,162	19,653	94,815	33,053	94,812
2023 January	^R 2,213	2	^R 2,215	3	^R 2,218	^R 5,778	1,110	^R 6,888	^R 1,584	^R 8,472	^R 2,695	^R 8,472
February	^R 2,072	2	^R 2,074	3	^R 2,077	^R 5,275	1,000	^R 6,275	^R 1,329	^R 7,604	^R 2,329	^R 7,600
March	^R 2,370	2	^R 2,372	3	2,374	^R 5,666	1,046	^R 6,711	1,431	^R 8,142	^R 2,477	^R 8,138
April	2,257	2	2,258	2	2,261	^R 4,953	958	^R 5,912	1,262	^R 7,174	2,220	^R 7,169
May	^R 2,393	2	^R 2,395	3	^R 2,397	^R 4,883	1,019	^R 5,903	1,432	^R 7,335	2,451	^R 7,332
June	^R 2,402	2	^R 2,404	3	^R 2,407	^R 4,711	1,122	5,833	1,675	^R 7,507	^R 2,796	^R 7,510
July	^R 2,406	2	2,409	3	2,412	^R 4,700	1,321	^R 6,021	^R 2,048	^R 8,069	^R 3,369	^R 8,077
August	^R 2,489	2	^R 2,491	3	^R 2,494	^R 4,861	1,339	^R 6,200	^R 2,011	^R 8,212	^R 3,350	^R 8,219
September	^R 2,285	2	2,288	3	2,291	^R 4,613	1,182	^R 5,796	^R 1,631	^R 7,426	^R 2,813	^R 7,429
October	^R 2,416	2	^R 2,418	3	^R 2,421	^R 5,034	1,051	^R 6,085	^R 1,458	^R 7,544	^R 2,509	^R 7,543
November	^R 2,297	2	2,298	3	2,301	^R 5,385	1,004	^R 6,389	^R 1,453	^R 7,843	^R 2,457	^R 7,840
December	^R 2,343	2	^R 2,345	3	^R 2,348	^R 5,703	1,067	^R 6,770	^R 1,594	^R 8,364	2,660	^R 8,362
Total	27,944	23	27,967	34	28,001	61,563	13,219	74,782	18,910	93,692	32,129	93,691
2024 January	^R 2,211	2	^R 2,213	3	^R 2,216	^R 6,001	1,171	^R 7,172	1,804	^R 8,976	2,975	^R 8,979
February	^R 2,118	2	^R 2,120	2	^R 2,123	^R 5,319	1,030	^R 6,349	1,368	^R 7,717	2,398	^R 7,713
March	^R 2,333	2	^R 2,335	3	^R 2,338	^R 5,362	1,005	^R 6,367	1,351	^R 7,718	2,356	^R 7,712
April	^R 2,286	2	^R 2,288	2	^R 2,290	^R 4,915	967	^R 5,882	1,271	^R 7,153	2,238	^R 7,148
May	^R 2,453	2	^R 2,455	3	^R 2,458	^R 4,913	1,065	^R 5,977	1,508	^R 7,486	2,573	^R 7,484
June	^R 2,339	2	^R 2,341	3	^R 2,344	^R 4,611	1,205	^R 5,816	1,766	^R 7,582	2,971	^R 7,585
July	^R 2,494	2	^R 2,496	3	^R 2,500	^R 4,811	1,345	^R 6,156	2,030	^R 8,185	3,374	^R 8,192
August	^R 2,486	2	^R 2,488	3	^R 2,491	^R 4,836	1,331	^R 6,168	1,983	^R 8,151	3,314	^R 8,157
September	^R 2,294	2	^R 2,296	3	^R 2,298	^R 4,615	1,161	^R 5,776	1,621	^R 7,397	2,782	^R 7,399
October	2,422	2	2,424	3	2,426	5,002	1,070	6,073	1,458	7,531	2,529	7,530
10-Month Total ...	23,435	20	23,455	28	23,484	50,385	11,350	61,736	16,160	77,896	27,510	77,900
2023 10-Month Total ...	23,304	20	23,324	28	23,352	50,476	11,148	61,624	15,861	77,485	27,010	77,489
2022 10-Month Total ...	23,046	19	23,065	27	23,092	50,643	11,284	61,927	16,442	78,370	27,726	78,370

^a Includes NAICS 22 electricity-only and CHP plants whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. For 1989 forward, data are for electric utilities and independent power producers.

^b Energy consumed in the form that it is first accounted for, before any transformation to secondary or tertiary forms of energy. See "Primary Energy Consumption" in Glossary.

^c Electricity sold to the sector. See "Electricity Sales to Ultimate Customers" in Glossary.

^d Sum of "Primary" and "Electricity." See "End-Use Energy Consumption" in Glossary.

^e Calculated as the difference between primary energy consumed by the electric power sector and the energy content of electricity sales to ultimate customers sent to the end-use sectors. Allocated proportionally to the electricity sales to ultimate customers in each end-use sector. See Note 1, "Electrical System Energy Losses," at end of section.

^f Equal to end-use energy consumption plus electrical system energy losses.

^g Equal to the sum of total energy consumption in the four end-use sectors, which does not equal total primary energy consumption due to the use of sector-specific conversion factors for coal and natural gas.

^h Total primary energy consumption. See Table 1.3.

R=Revised.

Notes: • Data are estimates, except for the electric power sector. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 2, "Other Energy Losses," at end of section. • See Note 3, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

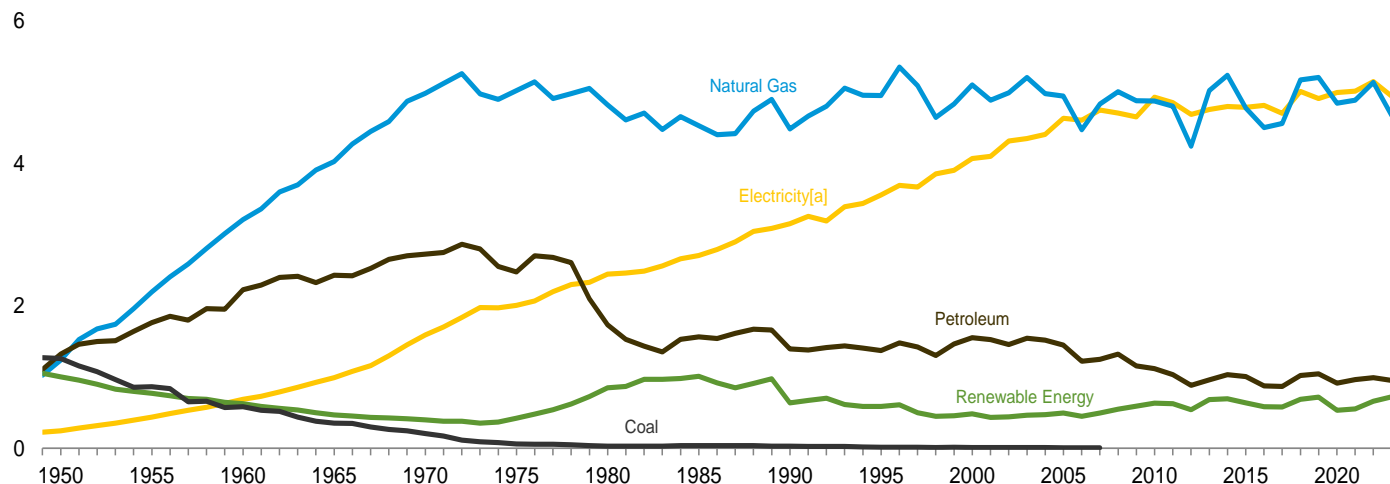
Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#consumption> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: • End-Use Sectors: Tables 2.2–2.5. • Electric Power Sector: Table 2.6. • Primary Total: Table 1.3.

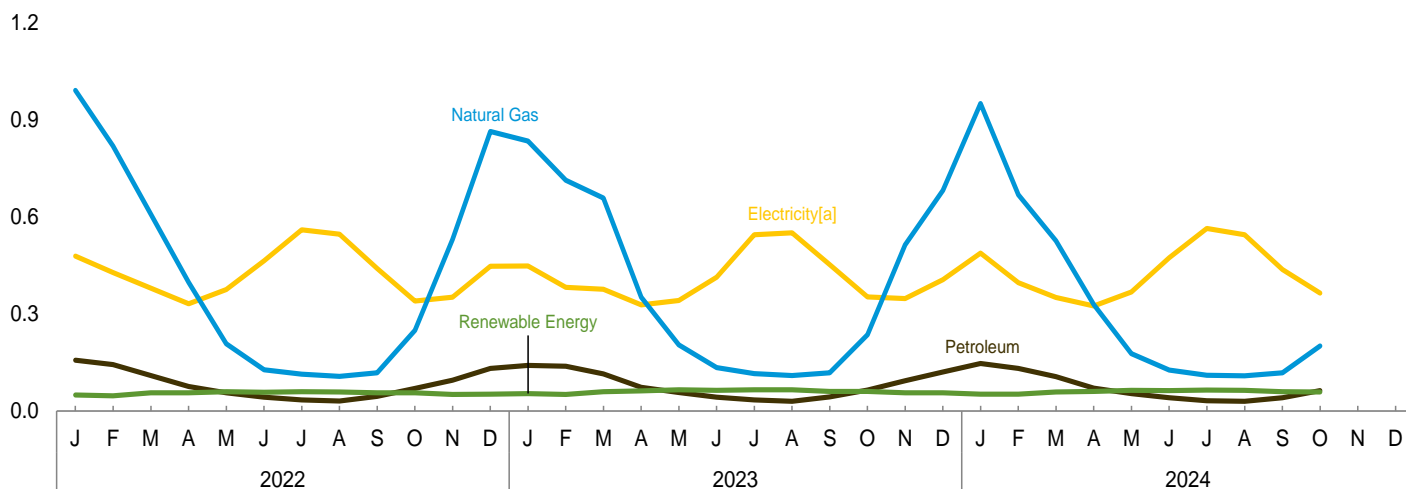
Figure 2.2 Residential Sector Energy Consumption

(Quadrillion Btu)

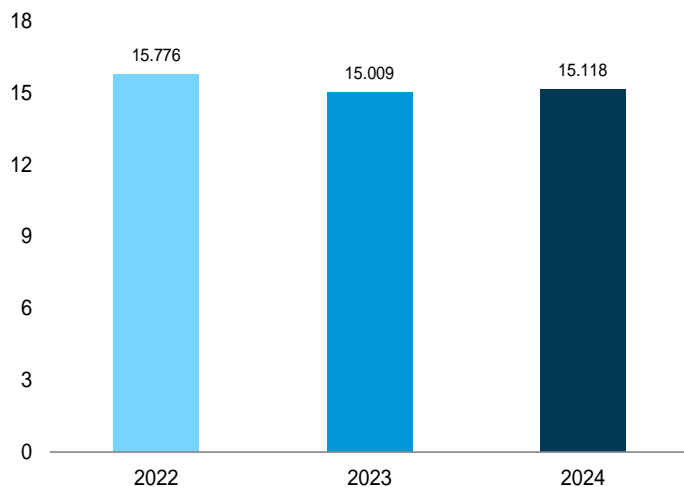
By Major Source, 1949–2023



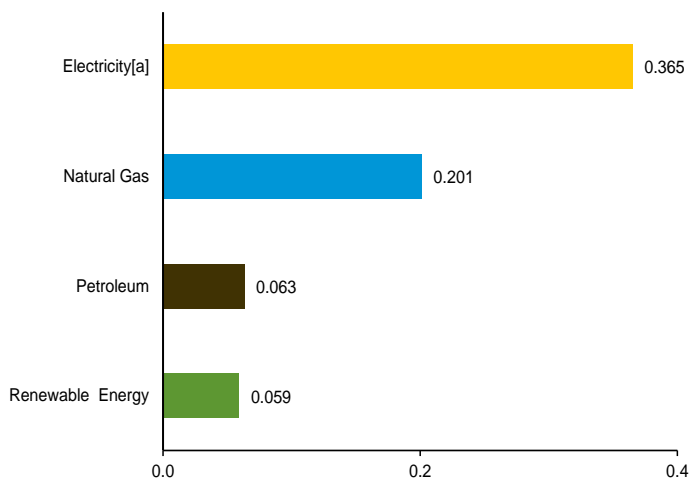
By Major Source, Monthly



Total, January–October



By Major Source, October 2024



[a] Electricity sales to ultimate customers.

Web Page: <http://www.eia.gov/totalenergy/data/monthly/#consumption>.

Source: Table 2.2.

Table 2.2 Residential Sector Energy Consumption
(Trillion Btu)

	End-Use Energy Consumption ^a											Electrical System Energy Losses ^g	Total
	Primary Consumption ^b								Elec- tricity ^f	Total End Use			
	Fossil Fuels				Renewable Energy ^c								
	Coal	Natural Gas ^d	Petro- leum	Total	Geo- thermal	Solar ^e	Bio- mass	Total					
1950 Total	1,261	1,240	1,322	3,824	NA	NA	1,006	1,006	4,830	246	5,076	661	5,736
1955 Total	867	2,198	1,767	4,833	NA	NA	775	775	5,608	438	6,046	990	7,036
1960 Total	585	3,212	2,228	6,025	NA	NA	627	627	6,651	687	7,339	1,387	8,726
1965 Total	352	4,028	2,432	6,812	NA	NA	468	468	7,280	993	8,273	1,950	10,223
1970 Total	209	4,987	2,726	7,922	NA	NA	401	401	8,323	1,591	9,914	3,264	13,178
1975 Total	63	5,023	2,479	7,565	NA	NA	425	425	7,990	2,007	9,997	4,103	14,100
1980 Total	31	4,825	1,734	6,590	NA	NA	850	850	7,440	2,448	9,888	5,194	15,082
1985 Total	39	4,534	1,566	6,139	NA	NA	1,010	1,010	7,149	2,709	9,858	5,486	15,344
1990 Total	31	4,487	1,395	5,912	6	55	580	640	6,552	3,153	9,705	6,501	16,206
1995 Total	17	4,954	1,374	6,345	7	63	520	589	6,934	3,557	10,491	7,256	17,747
2000 Total	11	5,105	1,554	6,670	9	57	420	486	7,156	4,069	11,225	8,507	19,732
2005 Total	8	4,946	1,450	6,405	16	49	430	495	6,901	4,638	11,538	9,340	20,879
2010 Total	NA	4,878	1,120	5,999	37	59	541	636	6,635	4,933	11,568	9,419	20,987
2011 Total	NA	4,805	1,034	5,838	40	62	524	626	6,465	4,855	11,319	8,967	20,286
2012 Total	NA	4,242	886	5,128	40	66	438	544	5,672	4,690	10,362	8,510	18,871
2013 Total	NA	5,023	963	5,986	40	72	572	683	6,669	4,759	11,428	8,554	19,983
2014 Total	NA	5,242	1,036	6,279	40	79	579	697	6,976	4,801	11,778	8,560	20,338
2015 Total	NA	4,777	1,007	5,784	40	87	513	639	6,423	4,791	11,214	8,306	19,520
2016 Total	NA	4,506	878	5,384	40	100	445	584	5,968	4,815	10,783	8,146	18,929
2017 Total	NA	4,563	871	5,435	40	113	430	582	6,017	4,704	10,721	7,751	18,471
2018 Total	NA	5,174	1,022	6,197	40	123	525	688	6,885	5,013	11,897	8,126	20,023
2019 Total	NA	5,208	1,045	6,253	40	136	546	721	6,974	4,914	11,889	7,686	19,575
2020 Total	NA	4,846	914	5,760	40	151	345	536	6,296	4,997	11,293	^R 7,503	^R 18,796
2021 Total	NA	4,889	967	5,856	40	169	344	553	6,409	5,017	11,426	7,564	18,991
2022 January	NA	^R 992	157	^R 1,149	3	11	36	50	^R 1,199	479	^R 1,678	747	^R 2,425
February	NA	^R 820	144	964	3	12	32	47	1,011	428	1,439	605	2,044
March	NA	609	110	719	3	17	36	56	775	380	1,155	512	1,667
April	NA	398	76	^R 475	3	18	35	56	531	332	863	438	1,301
May	NA	208	56	264	3	20	36	60	324	376	699	552	1,251
June	NA	128	43	171	3	20	35	58	229	465	694	704	1,398
July	NA	114	34	148	3	21	36	60	208	561	768	878	1,647
August	NA	107	31	137	3	20	36	59	197	547	744	824	1,568
September	NA	118	45	163	3	18	35	56	219	441	660	618	1,277
October	NA	250	70	321	3	17	36	56	377	340	717	480	^R 1,198
November	NA	^R 531	95	626	3	13	35	51	678	352	1,030	523	1,552
December	NA	865	132	996	3	12	36	52	1,048	448	1,496	693	2,190
Total	NA	5,140	992	6,132	40	200	422	662	6,793	5,150	11,943	7,553	19,496
2023 January	NA	^R 835	141	^R 976	3	12	38	54	^R 1,030	449	^R 1,479	^R 641	^R 2,120
February	NA	^R 714	139	^R 853	3	14	35	51	^R 905	383	^R 1,287	^R 509	^R 1,796
March	NA	^R 659	115	^R 774	3	19	38	60	^R 834	377	^R 1,211	^R 516	1,727
April	NA	352	73	425	3	21	37	62	487	328	815	432	1,247
May	NA	205	57	^R 263	3	24	38	66	328	342	670	^R 481	1,151
June	NA	134	43	177	3	23	37	64	241	414	655	618	1,273
July	NA	116	34	150	3	24	38	66	216	545	761	^R 845	^R 1,606
August	NA	^R 110	30	^R 140	3	24	38	66	^R 205	551	^R 756	^R 827	1,583
September	NA	118	44	163	3	21	37	61	224	453	677	^R 625	^R 1,302
October	NA	^R 236	65	^R 301	3	20	38	61	^R 362	353	^R 715	^R 489	^R 1,204
November	NA	^R 514	94	608	3	16	37	56	^R 664	348	1,012	503	^R 1,515
December	NA	^R 683	121	805	3	14	38	56	^R 861	406	^R 1,266	606	1,873
Total	NA	4,677	956	5,633	40	233	450	723	6,356	4,947	11,304	7,077	18,381
2024 January	NA	^R 951	147	1,098	3	15	34	52	1,150	489	1,639	753	2,392
February	NA	^R 669	132	801	3	17	32	52	^R 853	397	^R 1,250	527	^R 1,777
March	NA	^R 527	106	632	3	22	34	59	692	351	1,042	471	^R 1,514
April	NA	329	71	400	3	24	33	61	^R 461	325	^R 786	427	1,212
May	NA	178	54	231	3	27	34	64	295	368	664	522	1,186
June	NA	127	41	168	3	27	33	63	231	474	705	696	1,401
July	NA	111	32	142	3	27	34	65	207	565	772	853	^R 1,625
August	NA	109	30	139	3	26	34	64	203	545	748	811	1,559
September	NA	^R 118	41	159	3	23	33	60	^R 219	438	^R 657	612	^R 1,269
October	NA	201	63	264	3	21	34	59	323	365	688	497	1,185
10-Month Total ...	NA	3,318	718	4,036	33	229	335	598	4,634	4,316	8,950	6,168	15,118
2023 10-Month Total ...	NA	3,480	742	4,222	33	203	375	611	4,832	4,194	9,026	5,982	15,009
2022 10-Month Total ...	NA	3,745	765	4,510	33	174	352	559	5,069	4,349	9,418	6,358	15,776

^a Sum of "Total Primary" and "Electricity." See "End-Use Energy Consumption" in Glossary.

^b Energy consumed in the form that it is first accounted for, before any transformation to secondary or tertiary forms of energy. See "Primary Energy Consumption" in Glossary.

^c See Table 10.2a for notes on series components.

^d Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.

^e Includes small-scale solar photovoltaic (PV) electricity and solar thermal energy in the residential sector. See Tables 10.2a and 10.5.

^f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

^g Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity sales to ultimate customers.

Total losses are allocated to the end-use sectors in proportion to each sector's share of total electricity sales to ultimate customers. See Note 1, "Electrical System Energy Losses," at end of section.

^R=Revised. NA=Not available.

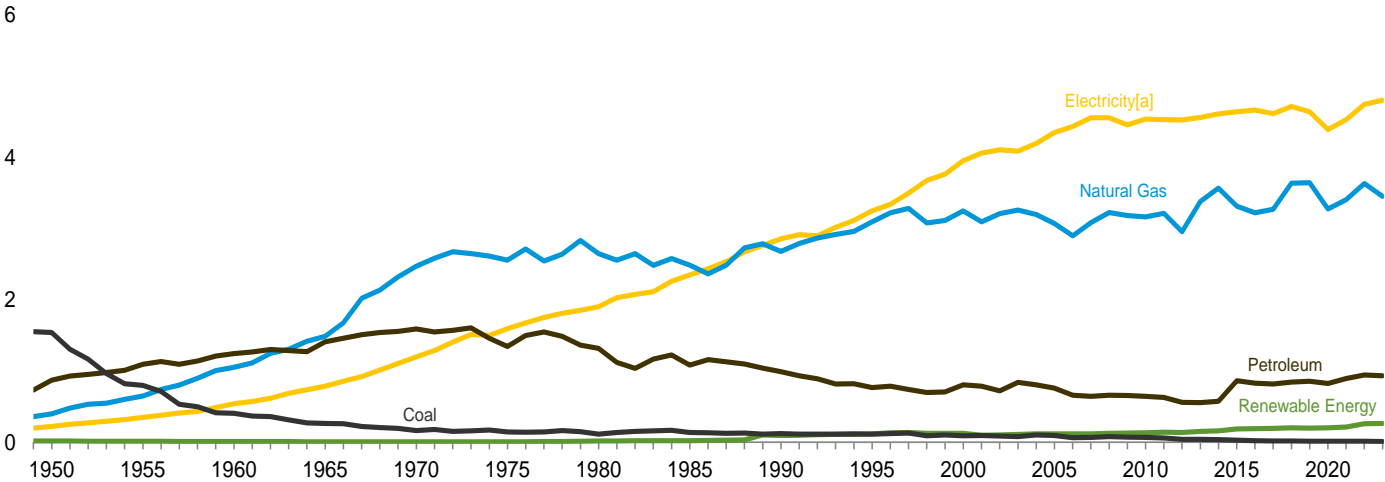
Notes: • Data are estimates, except for electricity sales to ultimate customers. • See Note 2, "Other Energy Losses," at end of section. • See Note 3, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#consumption> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

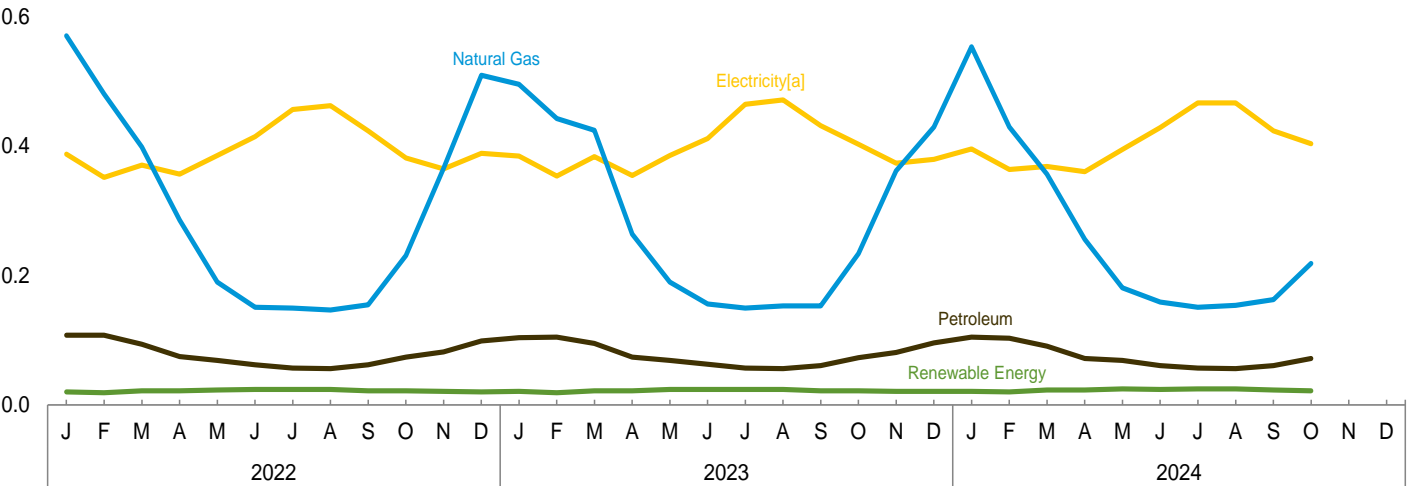
Sources: See end of section.

Figure 2.3 Commercial Sector Energy Consumption
(Quadrillion Btu)

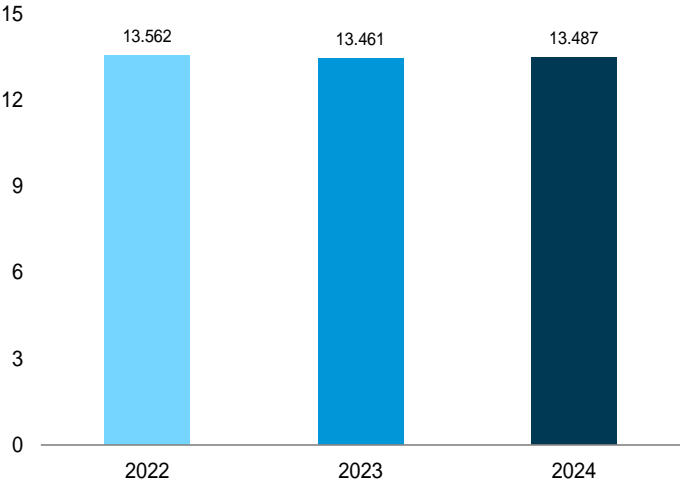
By Major Source, 1949–2023



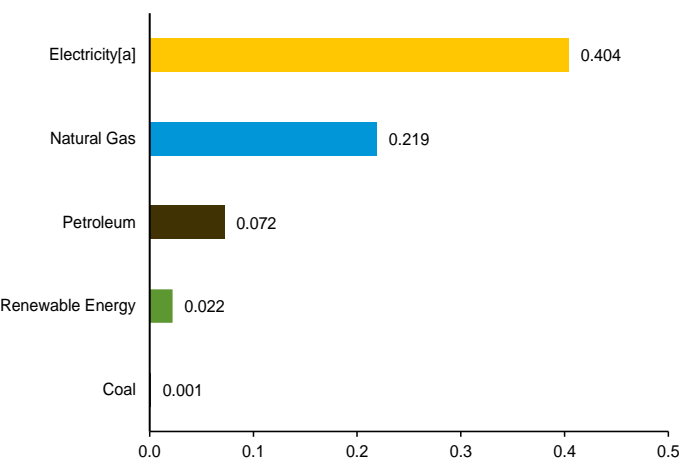
By Major Source, Monthly



Total, January–October



By Major Source, October 2024



[a] Electricity sales to ultimate customers.
Web Page: <http://www.eia.gov/totalenergy/data/monthly/#consumption>.
Source: Table 2.3.

Table 2.3 Commercial Sector Energy Consumption
(Trillion Btu)

	End-Use Energy Consumption ^a													Electrical System Energy Losses ⁱ	Total
	Primary Consumption ^b										Total Primary	Elec- tricity ^h	Total End Use		
	Fossil Fuels				Renewable Energy ^c										
	Coal	Natural Gas ^d	Petro- leum ^e	Total	Hydro- electric Power ^f	Geo- thermal	Solar ^g	Wind	Bio- mass	Total					
1950 Total	1,542	401	872	2,815	NA	NA	NA	NA	19	19	2,834	225	3,059	604	3,663
1955 Total	801	651	1,095	2,547	NA	NA	NA	NA	15	15	2,561	350	2,911	791	3,702
1960 Total	407	1,056	1,248	2,711	NA	NA	NA	NA	12	12	2,723	543	3,266	1,096	4,362
1965 Total	265	1,490	1,413	3,168	NA	NA	NA	NA	9	9	3,177	789	3,966	1,549	5,514
1970 Total	165	2,473	1,592	4,229	NA	NA	NA	NA	8	8	4,237	1,201	5,438	2,464	7,902
1975 Total	147	2,558	1,346	4,051	NA	NA	NA	NA	8	8	4,059	1,598	5,657	3,267	8,924
1980 Total	115	2,651	1,318	4,084	NA	NA	NA	NA	21	21	4,105	1,906	6,011	4,044	10,055
1985 Total	137	2,488	1,083	3,708	NA	NA	NA	NA	24	24	3,732	2,351	6,084	4,762	10,845
1990 Total	124	2,680	991	3,795	(s)	3	(s)	—	94	97	3,892	2,860	6,753	5,898	12,650
1995 Total	117	3,096	769	3,982	(s)	5	(s)	—	113	118	4,099	3,252	7,352	6,634	13,985
2000 Total	92	3,252	807	4,150	(s)	8	(s)	—	119	127	4,277	3,956	8,233	8,271	16,504
2005 Total	97	3,073	761	3,931	(s)	14	1	—	105	120	4,051	4,351	8,401	8,762	17,163
2010 Total	70	3,165	647	3,881	(s)	19	4	(s)	111	134	4,014	4,539	8,553	8,666	17,219
2011 Total	62	3,216	632	3,910	(s)	20	7	(s)	115	141	4,051	4,531	8,583	8,370	16,952
2012 Total	44	2,960	560	3,563	(s)	20	11	(s)	108	139	3,702	4,528	8,230	8,216	16,446
2013 Total	41	3,380	558	3,979	(s)	20	15	(s)	120	155	4,134	4,562	8,696	8,200	16,897
2014 Total	40	3,572	578	4,190	(s)	20	19	(s)	124	163	4,353	4,614	8,966	8,226	17,192
2015 Total	31	3,316	864	4,211	(s)	20	21	(s)	146	187	4,398	4,643	9,040	8,050	17,090
2016 Total	24	3,224	832	4,079	1	20	23	(s)	148	191	4,270	4,665	8,935	7,893	16,828
2017 Total	21	3,273	820	4,113	1	20	28	(s)	146	195	4,308	4,616	8,924	7,606	16,530
2018 Total	19	3,638	845	4,502	1	20	35	1	146	203	4,705	4,715	9,419	7,643	17,062
2019 Total	17	3,647	857	4,521	1	21	40	1	139	201	4,722	4,643	9,365	7,263	16,628
2020 Total	15	3,279	827	4,120	1	21	46	1	137	205	4,325	4,393	8,718	6,595	15,313
2021 Total	15	3,409	898	4,322	1	21	54	1	139	215	4,537	4,533	9,070	6,834	15,904
2022 January	2	571	108	681	(s)	2	4	(s)	15	20	701	388	1,089	604	1,692
February	2	481	108	590	(s)	2	4	(s)	14	19	609	352	961	498	1,458
March	1	399	94	494	(s)	2	5	(s)	15	22	517	371	887	499	1,386
April	1	286	75	361	(s)	2	6	(s)	15	22	383	357	740	470	1,210
May	1	190	69	260	(s)	2	6	(s)	15	23	283	386	669	566	1,235
June	1	R 151	62	215	(s)	2	6	(s)	15	24	R 238	415	653	628	1,281
July	1	150	57	R 208	(s)	2	7	(s)	15	24	R 232	457	R 689	716	1,405
August	1	147	56	204	(s)	2	6	(s)	16	24	228	463	691	698	1,388
September	1	155	62	R 218	(s)	2	6	(s)	15	22	241	424	664	593	1,258
October	1	231	74	307	(s)	2	5	(s)	15	22	328	382	710	539	1,249
November	1	366	82	449	(s)	2	4	(s)	15	21	470	365	834	541	R 1,376
December	2	510	99	R 610	(s)	2	4	(s)	15	20	631	389	R 1,019	601	1,621
Total	14	3,635	947	4,596	1	20	63	1	180	263	4,860	4,746	9,605	6,961	16,566
2023 January	1	496	104	601	(s)	2	4	(s)	15	21	R 622	385	R 1,007	549	R 1,556
February	1	R 443	105	R 549	(s)	2	4	(s)	13	19	568	354	922	471	1,393
March	1	R 425	95	R 521	(s)	2	6	(s)	15	22	544	384	928	526	1,454
April	1	264	74	338	(s)	2	7	(s)	14	22	361	355	716	468	1,184
May	1	R 190	69	260	(s)	2	7	(s)	15	24	284	386	R 670	543	1,213
June	1	156	63	219	(s)	2	7	(s)	15	24	243	412	655	615	1,270
July	1	R 150	57	R 207	(s)	2	7	(s)	15	24	231	465	R 697	721	R 1,418
August	1	R 153	56	R 209	(s)	2	7	(s)	15	24	R 234	472	R 706	709	R 1,415
September	1	153	61	215	(s)	2	6	(s)	14	22	R 237	432	669	596	R 1,265
October	1	234	73	308	(s)	2	5	(s)	15	22	330	403	R 734	560	R 1,293
November	1	362	81	444	(s)	2	4	(s)	15	21	R 464	374	839	542	1,381
December	1	R 430	96	R 527	(s)	2	4	(s)	15	21	R 548	380	R 929	568	R 1,497
Total	12	3,455	933	4,399	1	20	69	(s)	176	267	4,666	4,804	9,470	6,873	16,343
2024 January	2	554	105	R 661	(s)	2	4	(s)	15	21	R 682	396	1,078	611	1,689
February	1	430	103	534	NM	2	5	(s)	14	20	554	364	918	483	1,402
March	1	R 357	91	R 449	(s)	2	7	(s)	14	23	R 472	369	R 841	496	1,338
April	1	256	72	329	(s)	2	7	(s)	14	23	351	361	713	475	1,188
May	1	R 181	69	251	NM	2	8	(s)	15	25	276	395	R 671	560	R 1,231
June	1	R 159	61	R 221	(s)	2	8	(s)	14	24	R 245	429	674	629	1,303
July	1	151	57	209	NM	2	8	(s)	15	25	R 235	467	701	704	R 1,406
August	1	154	56	211	(s)	2	8	(s)	15	25	235	467	703	696	1,399
September	1	163	61	225	(s)	2	7	(s)	14	23	247	424	671	592	1,263
October	1	219	72	292	NM	2	6	(s)	14	22	315	404	719	550	1,269
10-Month Total ...	9	2,625	747	3,382	1	16	69	(s)	144	231	3,612	4,077	7,690	5,797	13,487
2023 10-Month Total ...	9	2,663	756	3,429	1	16	61	(s)	146	225	3,654	4,049	7,703	5,757	13,461
2022 10-Month Total ...	11	2,760	766	3,537	1	16	55	(s)	150	223	3,760	3,992	7,752	5,810	13,562

^a Sum of "Total Primary" and "Electricity." See "End-Use Energy Consumption" in Glossary.

^b Energy consumed in the form that it is first accounted for, before any transformation to secondary or tertiary forms of energy. See "Primary Energy Consumption" in Glossary.

^c See Table 10.2a for notes on series components.

^d Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.

^e Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."

^f Conventional hydroelectric power.

^g Includes small-scale solar photovoltaic (PV) electricity and solar thermal energy in the commercial sector. See Tables 10.2a and 10.5.

^h Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

ⁱ Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity sales to ultimate customers. Total losses are allocated to the end-use sectors in proportion to each sector's

share of total electricity sales to ultimate customers. See Note 1, "Electrical System Energy Losses," at end of section.

R=Revised. NA=Not available. NM=Not meaningful. —=No data reported. (s)=Less than 0.5 trillion Btu.

Notes: • Data are estimates, except for coal totals beginning in 2008; hydroelectric power; solar; wind; and electricity sales to ultimate customers beginning in 1979. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.

• See Note 2, "Other Energy Losses," at end of section. • See Note 3, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

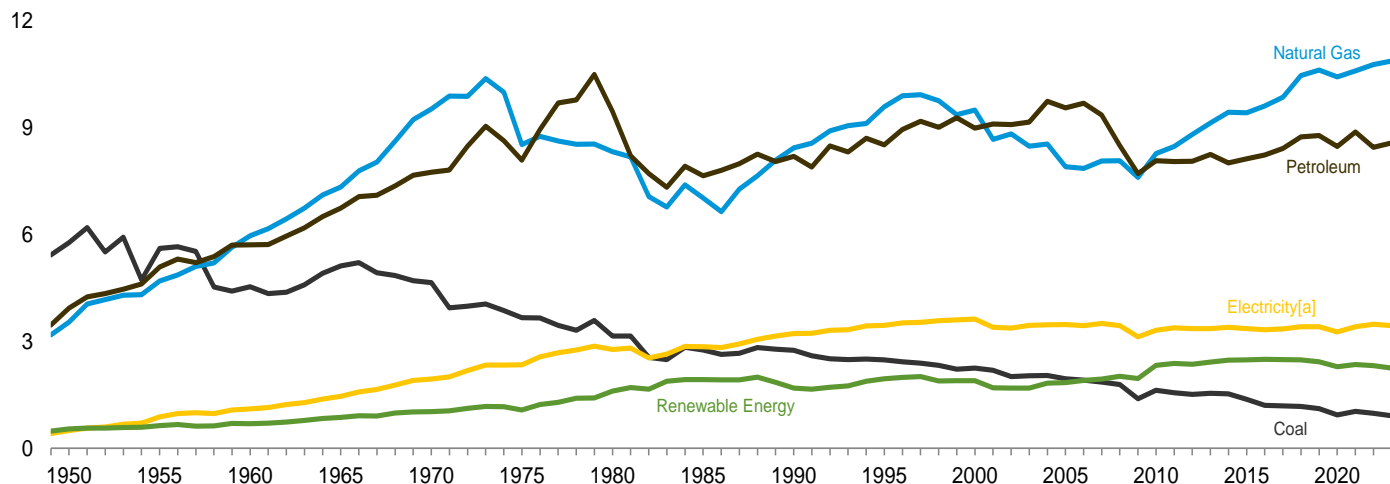
Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#consumption> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

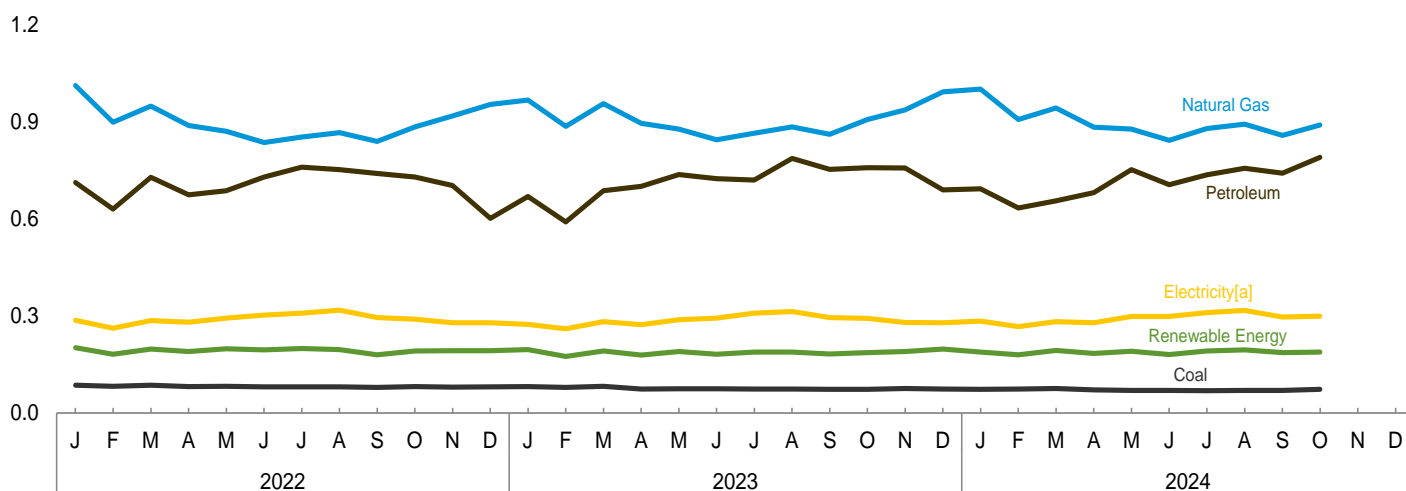
Figure 2.4 Industrial Sector Energy Consumption

(Quadrillion Btu)

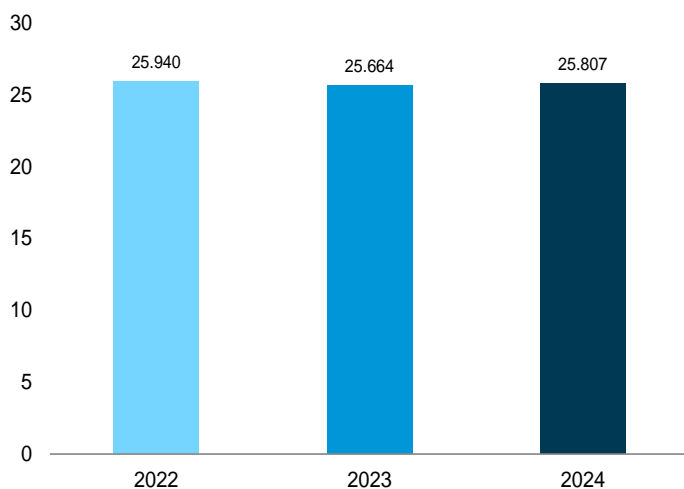
By Major Source, 1949–2023



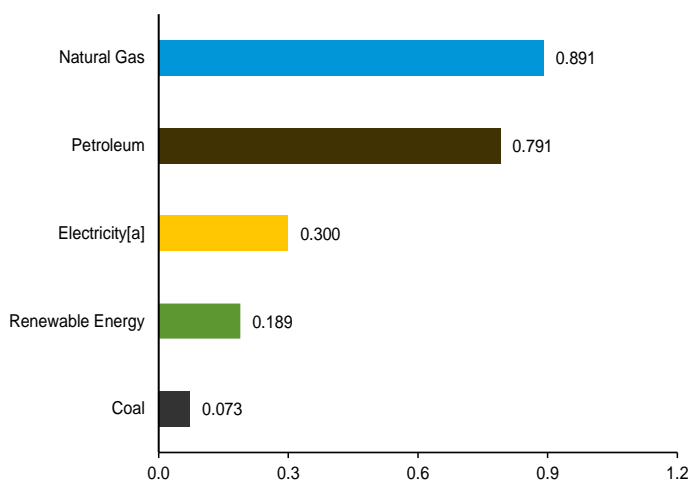
By Major Source, Monthly



Total, January–October



By Major Source, October 2024



[a] Electricity sales to ultimate customers.

Web Page: <http://www.eia.gov/totalenergy/data/monthly/#consumption>.

Source: Table 2.4.

Table 2.4 Industrial Sector Energy Consumption
(Trillion Btu)

	End-Use Energy Consumption ^a													Electrical System Energy Losses ^k	Total
	Primary Consumption ^b										Elec- tricity ^j	Total End Use			
	Fossil Fuels ^c				Renewable Energy ^d										
	Coal	Natural Gas ^e	Petro- leum ^f	Total ^g	Hydro- electric Power ^h	Geo- thermal	Solar ⁱ	Wind	Bio- mass	Total					
1950 Total	5,781	3,546	3,943	13,271	17	NA	NA	NA	532	549	13,820	500	14,319	1,340	15,659
1955 Total	5,620	4,701	5,093	15,404	11	NA	NA	NA	631	642	16,046	887	16,933	2,005	18,938
1960 Total	4,543	5,973	5,720	16,231	12	NA	NA	NA	680	692	16,923	1,107	18,030	2,234	20,264
1965 Total	5,127	7,339	6,750	19,197	11	NA	NA	NA	855	866	20,063	1,463	21,526	2,873	24,399
1970 Total	4,656	9,536	7,754	21,888	11	NA	NA	NA	1,019	1,030	22,918	1,948	24,866	3,995	28,862
1975 Total	3,667	8,532	8,092	20,304	11	NA	NA	NA	1,063	1,074	21,378	2,346	23,725	4,797	28,522
1980 Total	3,155	8,333	9,464	20,916	11	NA	NA	NA	1,600	1,611	22,527	2,781	25,308	5,900	31,209
1985 Total	2,760	7,032	7,656	17,434	11	NA	NA	NA	1,918	1,928	19,363	2,855	22,218	5,782	28,000
1990 Total	2,756	8,443	8,200	19,403	10	2	(s)	—	1,684	1,696	21,100	3,226	24,326	6,652	30,978
1995 Total	2,488	9,592	8,525	20,666	18	3	(s)	—	1,934	1,955	22,622	3,455	26,077	7,048	33,125
2000 Total	2,256	9,500	8,999	20,821	14	4	(s)	—	1,881	1,900	22,721	3,631	26,352	7,592	33,945
2005 Total	1,954	7,907	9,567	19,472	11	4	(s)	—	1,834	1,849	21,322	3,477	24,799	7,003	31,803
2010 Total	1,631	8,278	8,083	17,986	6	4	1	—	2,320	2,331	20,317	3,314	23,631	6,328	29,958
2011 Total	1,561	8,481	8,055	18,107	6	4	1	(s)	2,375	2,387	20,494	3,382	23,876	6,247	30,123
2012 Total	1,513	8,819	8,066	18,401	8	4	2	(s)	2,349	2,363	20,765	3,363	24,128	6,103	30,230
2013 Total	1,546	9,140	8,260	18,930	12	4	3	(s)	2,407	2,427	21,357	3,362	24,719	6,043	30,762
2014 Total	1,530	9,441	8,021	18,971	4	4	4	(s)	2,466	2,478	21,449	3,404	24,853	6,068	30,921
2015 Total	1,380	9,426	8,135	18,923	5	4	5	(s)	2,474	2,489	21,411	3,366	24,777	5,836	30,613
2016 Total	1,205	9,617	8,243	19,046	4	4	7	(s)	2,487	2,503	21,549	3,333	24,882	5,639	30,520
2017 Total	1,195	9,864	8,427	19,458	5	4	8	(s)	2,475	2,493	21,951	3,358	25,309	5,534	30,843
2018 Total	1,180	10,474	8,747	20,375	4	4	9	(s)	2,471	2,489	22,864	3,414	26,278	5,535	31,813
2019 Total	1,117	10,630	8,785	20,511	4	4	11	(s)	2,416	2,435	22,946	3,420	26,366	5,349	31,716
2020 Total	938	10,437	8,476	19,838	3	4	12	(s)	2,270	2,290	22,128	3,272	25,401	4,913	30,314
2021 Total	1,036	10,603	8,885	20,476	3	4	14	(s)	2,336	2,357	22,833	3,414	26,247	5,147	31,394
2022 January	86	^R 1,013	713	^R 1,807	(s)	(s)	1	(s)	201	202	^R 2,009	287	^R 2,296	446	^R 2,742
February	83	^R 900	631	^R 1,611	(s)	(s)	1	(s)	180	182	^R 1,793	262	^R 2,055	371	^R 2,426
March	86	^R 950	729	^R 1,760	(s)	(s)	1	(s)	196	198	^R 1,958	286	^R 2,244	385	^R 2,628
April	82	^R 889	675	^R 1,641	(s)	(s)	1	(s)	188	190	^R 1,831	281	^R 2,112	370	^R 2,482
May	83	^R 872	688	^R 1,633	(s)	(s)	2	(s)	197	199	^R 1,832	294	^R 2,126	431	^R 2,557
June	81	^R 837	730	^R 1,644	(s)	(s)	2	(s)	193	195	^R 1,839	303	^R 2,142	458	^R 2,600
July	81	^R 854	761	^R 1,691	(s)	(s)	2	(s)	198	200	^R 1,891	309	^R 2,200	484	^R 2,683
August	81	^R 867	753	^R 1,697	(s)	(s)	2	(s)	194	196	^R 1,894	318	^R 2,211	479	^R 2,690
September	79	^R 840	741	^R 1,655	(s)	(s)	1	(s)	178	180	^R 1,835	295	^R 2,131	414	^R 2,544
October	82	^R 885	730	^R 1,694	(s)	(s)	1	(s)	190	192	^R 1,886	290	^R 2,176	409	^R 2,585
November	80	^R 919	704	^R 1,701	(s)	(s)	1	(s)	192	193	^R 1,894	279	^R 2,173	414	^R 2,587
December	81	^R 955	602	^R 1,632	(s)	(s)	1	(s)	191	193	^R 1,825	279	^R 2,104	432	^R 2,536
Total	987	10,782	8,455	20,168	3	4	15	(s)	2,297	2,320	22,488	3,482	25,970	5,107	31,077
2023 January	82	^R 968	670	^R 1,716	(s)	(s)	1	(s)	195	196	^R 1,913	274	^R 2,187	391	^R 2,578
February	79	^R 887	591	^R 1,556	(s)	(s)	1	(s)	173	175	^R 1,730	261	^R 1,991	347	^R 2,338
March	83	^R 957	688	^R 1,726	(s)	(s)	1	(s)	189	192	^R 1,918	283	^R 2,200	387	^R 2,587
April	74	^R 896	701	^R 1,670	(s)	(s)	2	(s)	177	179	^R 1,849	273	^R 2,122	360	^R 2,482
May	75	^R 878	738	^R 1,688	(s)	(s)	2	(s)	188	190	^R 1,878	289	^R 2,167	406	^R 2,574
June	75	^R 845	725	^R 1,643	(s)	(s)	2	(s)	180	182	^R 1,825	294	^R 2,119	439	^R 2,558
July	74	^R 866	721	^R 1,657	(s)	(s)	2	(s)	187	189	^R 1,846	309	^R 2,155	^R 479	^R 2,634
August	74	^R 885	788	^R 1,744	(s)	(s)	2	(s)	187	189	^R 1,933	314	^R 2,247	472	^R 2,719
September	73	^R 862	754	^R 1,684	(s)	(s)	1	(s)	181	183	^R 1,867	295	^R 2,162	407	^R 2,569
October	73	^R 908	759	^R 1,738	(s)	(s)	1	(s)	186	187	^R 1,926	293	^R 2,219	407	^R 2,626
November	76	^R 938	758	^R 1,770	(s)	(s)	1	(s)	189	190	^R 1,960	280	^R 2,240	405	^R 2,645
December	74	^R 994	690	^R 1,753	(s)	(s)	1	(s)	197	198	^R 1,951	279	^R 2,230	416	^R 2,646
Total	913	10,883	8,583	20,346	3	4	16	(s)	2,228	2,251	22,597	3,444	26,041	4,926	30,967
2024 January	73	^R 1,002	694	^R 1,769	(s)	(s)	1	(s)	187	189	^R 1,958	284	^R 2,241	437	^R 2,678
February	74	^R 908	634	^R 1,614	(s)	(s)	1	(s)	178	180	^R 1,794	267	^R 2,061	355	^R 2,416
March	76	^R 944	656	^R 1,672	(s)	(s)	2	(s)	192	194	^R 1,866	283	^R 2,149	381	^R 2,529
April	72	^R 884	682	^R 1,633	(s)	(s)	2	(s)	181	184	^R 1,817	279	^R 2,096	367	^R 2,463
May	70	^R 878	753	^R 1,699	(s)	(s)	2	(s)	188	191	^R 1,889	299	^R 2,188	423	^R 2,611
June	70	^R 844	706	^R 1,615	(s)	(s)	2	(s)	179	181	^R 1,796	299	^R 2,095	438	^R 2,534
July	69	^R 880	737	^R 1,684	(s)	(s)	2	(s)	189	192	^R 1,875	311	^R 2,186	469	^R 2,656
August	70	^R 894	757	^R 1,717	(s)	(s)	2	(s)	193	195	^R 1,912	317	^R 2,229	472	^R 2,702
September	70	^R 859	742	^R 1,668	(s)	(s)	2	(s)	184	187	^R 1,854	297	^R 2,152	415	^R 2,567
October	73	^R 891	791	^R 1,754	(s)	(s)	1	(s)	187	189	^R 1,943	300	^R 2,243	409	^R 2,651
10-Month Total	718	8,983	7,151	16,823	3	4	16	(s)	1,859	1,881	18,704	2,936	21,640	4,167	25,807
2023 10-Month Total	762	8,951	7,134	16,823	2	3	14	(s)	1,842	1,863	18,685	2,885	21,570	4,094	25,664
2022 10-Month Total	826	8,907	7,150	16,835	3	3	13	(s)	1,914	1,934	18,769	2,924	21,693	4,247	25,940

^a Sum of "Total Primary" and "Electricity." See "End-Use Energy Consumption" in Glossary.

^b Energy consumed in the form that it is first accounted for, before any transformation to secondary or tertiary forms of energy. See "Primary Energy Consumption" in Glossary.

^c Includes non-combustion use of fossil fuels.

^d See Table 10.2b for notes on series components and estimation.

^e Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.

^f Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."

^g Includes coal coke net imports, which are not separately displayed. See Tables 1.4a and 1.4b.

^h Conventional hydroelectric power.

ⁱ Includes both utility-scale and small-scale solar photovoltaic (PV) electricity net generation in the industrial sector. See Tables 10.2b and 10.5.

^j Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

^k Total losses are calculated as the primary energy consumed by the electric

power sector minus the energy content of electricity sales to ultimate customers. Total losses are allocated to the end-use sectors in proportion to each sector's share of total electricity sales to ultimate customers. See Note 1, "Electrical System Energy Losses," at end of section.

R=Revised. NA=Not available. —=No data reported. (s)=Less than 0.5 trillion Btu.

Notes: • Data are estimates, except for coal totals; hydroelectric power in 1949–1978 and 1989 forward; solar; wind; and electricity sales to ultimate customers.

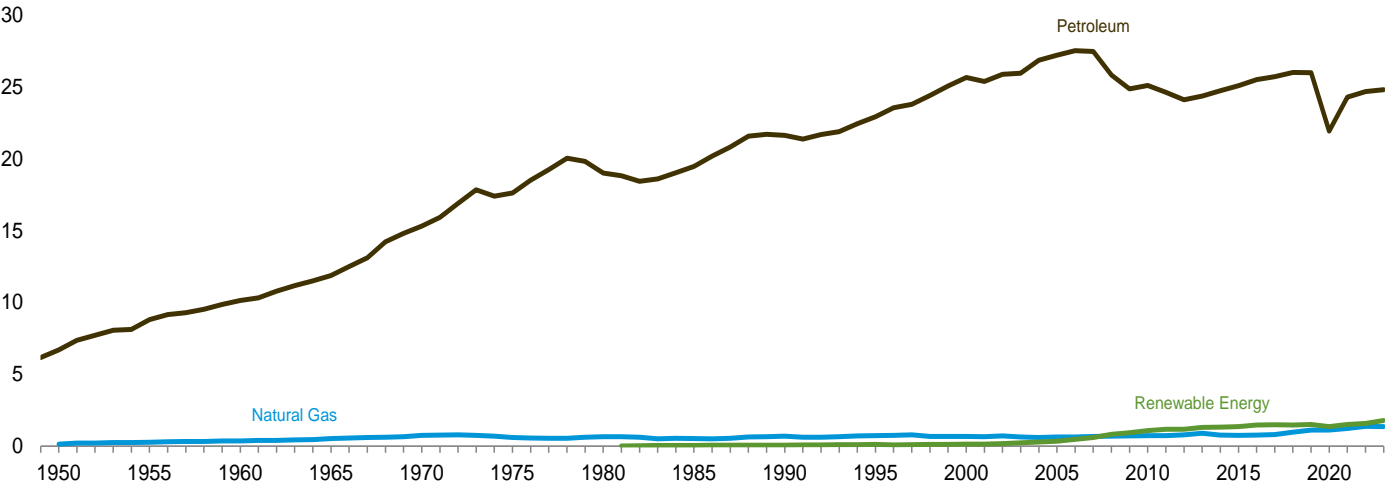
• The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 2, "Other Energy Losses," at end of section. • See Note 3, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#consumption> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

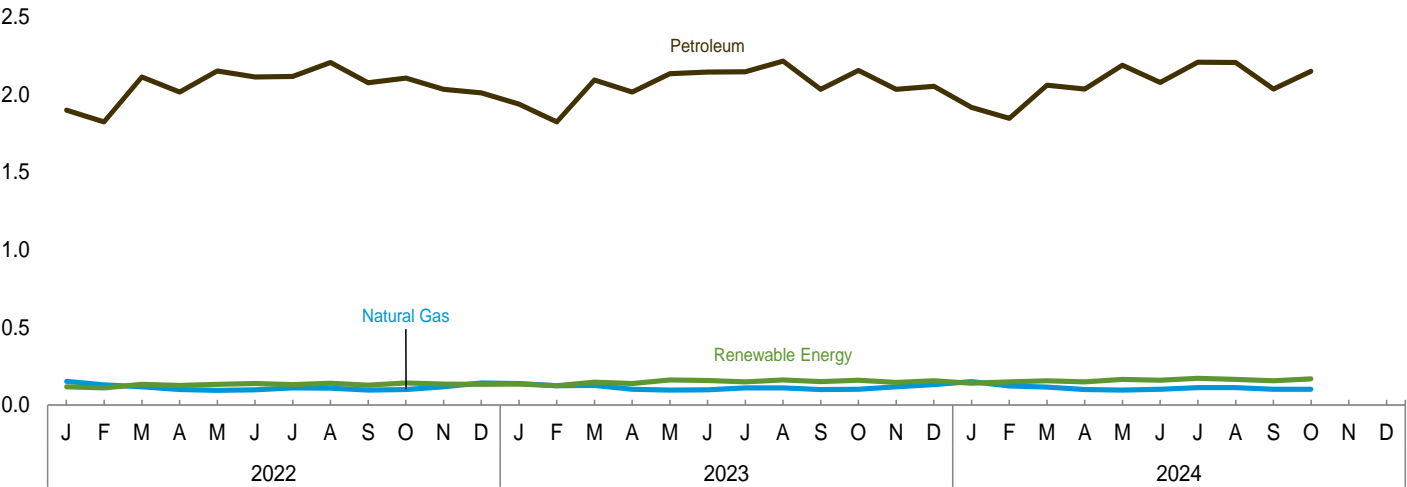
Sources: See end of section.

Figure 2.5 Transportation Sector Energy Consumption
(Quadrillion Btu)

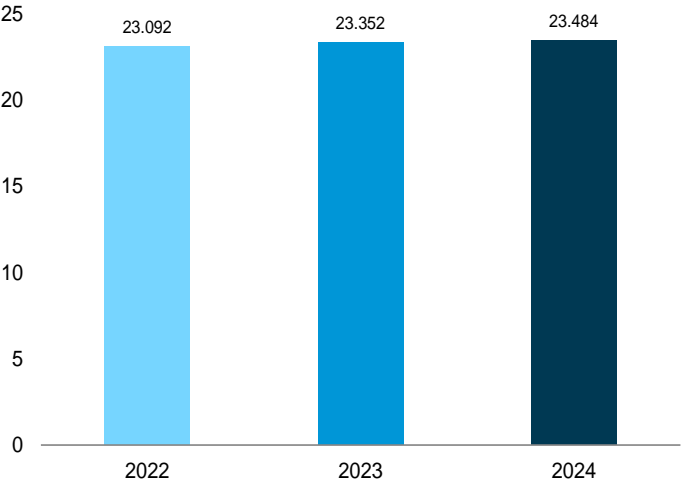
By Major Source, 1949–2023



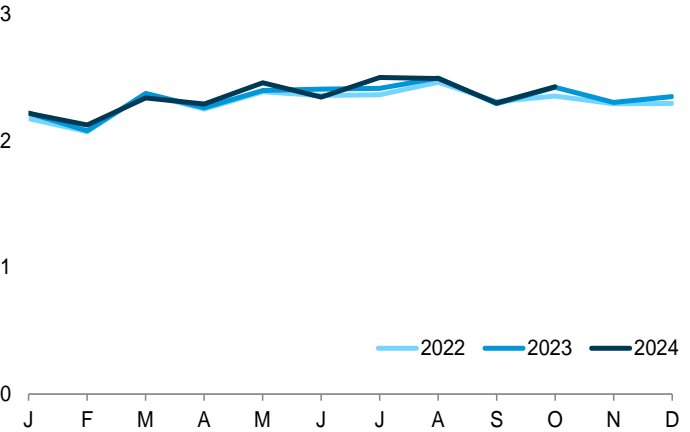
By Major Source, Monthly



Total, January–October



Total, Monthly



Web Page: <http://www.eia.gov/totalenergy/data/monthly/#consumption>.
Source: Table 2.5.

Table 2.5 Transportation Sector Energy Consumption
(Trillion Btu)

	End-Use Energy Consumption ^a								Electrical System Energy Losses ^g	Total
	Primary Consumption ^b					Electricity ^f	Total End Use			
	Fossil Fuels				Renewable Energy ^c					
	Coal	Natural Gas ^d	Petroleum ^e	Total				Biomass		
						Total Primary				
1950 Total	1,564	130	6,690	8,383	NA	8,383	23	8,407	62	8,469
1955 Total	421	254	8,799	9,474	NA	9,474	20	9,494	45	9,539
1960 Total	75	359	10,125	10,560	NA	10,560	10	10,570	21	10,591
1965 Total	16	517	11,866	12,399	NA	12,399	10	12,409	20	12,428
1970 Total	7	745	15,311	16,062	NA	16,062	11	16,073	22	16,094
1975 Total	1	595	17,615	18,211	NA	18,211	10	18,221	21	18,241
1980 Total	(h)	650	19,009	19,659	NA	19,659	11	19,670	23	19,694
1985 Total	(h)	519	19,472	19,992	50	20,042	14	20,056	29	20,084
1990 Total	(h)	679	21,626	22,305	60	22,366	16	22,382	33	22,415
1995 Total	(h)	724	22,920	23,644	112	23,757	17	23,774	35	23,808
2000 Total	(h)	672	25,649	26,321	135	26,456	18	26,474	38	26,512
2005 Total	(h)	624	27,217	27,840	339	28,179	26	28,205	52	28,257
2010 Total	(h)	719	25,100	25,819	1,075	26,894	26	26,920	50	26,970
2011 Total	(h)	734	24,623	25,357	1,166	26,523	26	26,549	48	26,598
2012 Total	(h)	780	24,108	24,888	1,169	26,057	25	26,082	45	26,127
2013 Total	(h)	887	24,361	25,248	1,292	26,541	26	26,567	47	26,614
2014 Total	(h)	760	24,728	25,487	1,314	26,802	26	26,828	47	26,875
2015 Total	(h)	745	25,086	25,831	1,351	27,182	26	27,208	45	27,253
2016 Total	(h)	757	25,515	26,272	1,469	27,741	26	27,767	43	27,810
2017 Total	(h)	799	25,707	26,506	1,474	27,979	26	28,005	42	28,047
2018 Total	(h)	962	26,017	26,979	1,456	28,435	26	28,461	42	28,504
2019 Total	(h)	1,114	25,992	27,106	1,497	28,602	26	28,628	41	28,669
2020 Total	(h)	1,111	21,930	23,041	1,355	24,397	22	24,419	34	24,453
2021 Total	(h)	1,232	24,287	25,519	1,496	27,015	22	27,037	33	27,070
2022 January	(h)	R 152	1,900	2,053	118	R 2,170	2	R 2,172	3	R 2,175
February	(h)	130	1,825	1,955	111	2,066	2	2,068	3	2,071
March	(h)	118	2,114	2,232	133	2,365	2	2,367	3	2,370
April	(h)	100	2,018	2,118	127	2,245	2	R 2,246	2	2,249
May	(h)	95	2,153	2,248	134	2,382	2	2,384	3	2,386
June	(h)	98	2,115	2,213	139	2,352	2	2,354	3	2,356
July	(h)	R 110	2,117	2,227	132	2,358	2	2,360	3	2,363
August	(h)	R 109	2,207	2,315	141	2,456	2	2,458	3	2,461
September	(h)	97	2,078	2,175	128	2,303	2	2,305	3	R 2,308
October	(h)	100	2,107	2,207	142	2,349	2	2,350	3	2,353
November	(h)	117	2,034	2,151	135	2,286	2	2,288	3	2,291
December	(h)	143	2,011	2,154	134	R 2,289	2	2,291	3	2,294
Total	(h)	1,367	24,681	26,048	1,573	27,621	23	27,643	33	27,676
2023 January	(h)	R 138	1,939	R 2,078	135	R 2,213	2	R 2,215	3	R 2,218
February	(h)	R 124	1,825	R 1,948	124	R 2,072	2	R 2,074	3	R 2,077
March	(h)	R 126	2,095	2,221	148	R 2,370	2	R 2,372	3	2,374
April	(h)	101	2,017	R 2,118	138	2,257	2	R 2,258	2	2,261
May	(h)	R 96	2,136	R 2,232	161	R 2,393	2	R 2,395	3	R 2,397
June	(h)	R 98	2,146	2,245	158	R 2,402	2	R 2,404	3	R 2,407
July	(h)	111	2,147	2,258	149	R 2,406	2	2,409	3	2,412
August	(h)	R 111	2,217	2,328	161	R 2,489	2	R 2,491	3	R 2,494
September	(h)	R 99	2,035	R 2,134	151	R 2,285	2	2,288	3	2,291
October	(h)	R 101	2,156	R 2,257	159	R 2,416	2	R 2,418	3	R 2,421
November	(h)	R 118	2,034	2,151	145	R 2,297	2	2,298	3	2,301
December	(h)	R 132	2,054	R 2,186	157	R 2,343	2	R 2,345	3	R 2,348
Total	(h)	1,356	24,801	26,156	1,787	27,944	23	27,967	34	28,001
2024 January	(h)	R 151	1,919	R 2,071	140	R 2,211	2	R 2,213	3	R 2,216
February	(h)	R 122	1,847	R 1,969	149	R 2,118	2	R 2,120	2	R 2,123
March	(h)	R 116	R 2,062	R 2,177	156	R 2,333	2	R 2,335	3	R 2,338
April	(h)	R 99	2,037	R 2,136	150	R 2,286	2	R 2,288	2	R 2,290
May	(h)	R 97	2,191	R 2,288	165	R 2,453	2	R 2,455	3	R 2,458
June	(h)	R 101	R 2,079	R 2,179	160	R 2,339	2	R 2,341	3	R 2,344
July	(h)	R 113	2,209	R 2,322	172	R 2,494	2	R 2,496	3	R 2,500
August	(h)	R 112	2,208	R 2,321	165	R 2,486	2	R 2,488	3	R 2,491
September	(h)	R 101	2,036	R 2,136	157	R 2,294	2	R 2,296	3	R 2,298
October	(h)	101	2,152	2,254	168	2,422	2	2,424	3	2,426
10-Month Total ...	(h)	1,114	20,739	21,853	1,582	23,435	20	23,455	28	23,484
2023 10-Month Total ...	(h)	1,106	20,713	21,819	1,485	23,304	20	23,324	28	23,352
2022 10-Month Total ...	(h)	1,107	20,635	21,742	1,304	23,046	19	23,065	27	23,092

^a Sum of "Total Primary" and "Electricity." See "End-Use Energy Consumption" in Glossary.

^b Energy consumed in the form that it is first accounted for, before any transformation to secondary or tertiary forms of energy. See "Primary Energy Consumption" in Glossary.

^c See Table 10.2c for notes on series components.

^d Natural gas consumed in the operation of pipelines and smaller amounts consumed as vehicle fuel. Does not include supplemental gaseous fuels—see Note 3, "Supplemental Gaseous Fuels," at end of Section 4.

^e Does not include biofuels. Biofuels are included in "Biomass." Includes non-combustion use of lubricants.

^f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

^g Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity sales to ultimate customers. Total losses are allocated to the end-use sectors in proportion to each sector's

share of total electricity sales to ultimate customers. See Note 1, "Electrical System Energy Losses," at end of section.

^h Beginning in 1978, the small amounts of coal consumed for transportation are reported as industrial sector consumption.

R=Revised. NA=Not available.

Notes: • Data are estimates, except for coal totals through 1977; and electricity sales to ultimate customers beginning in 1979. • See Note 2, "Other Energy Losses," at end of section. • See Note 3, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

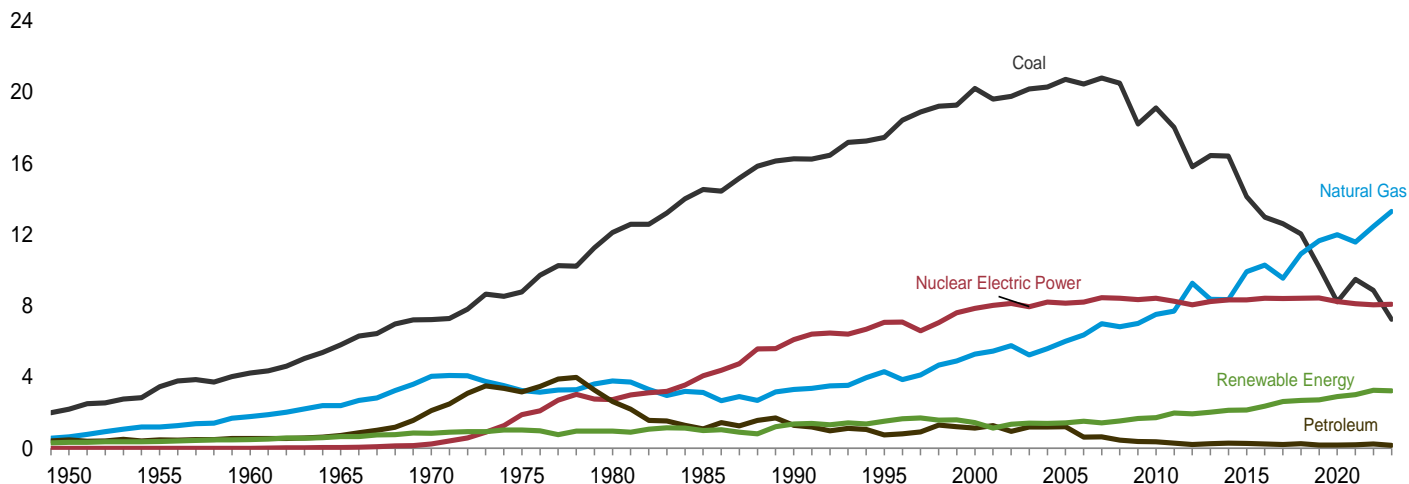
Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#consumption> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

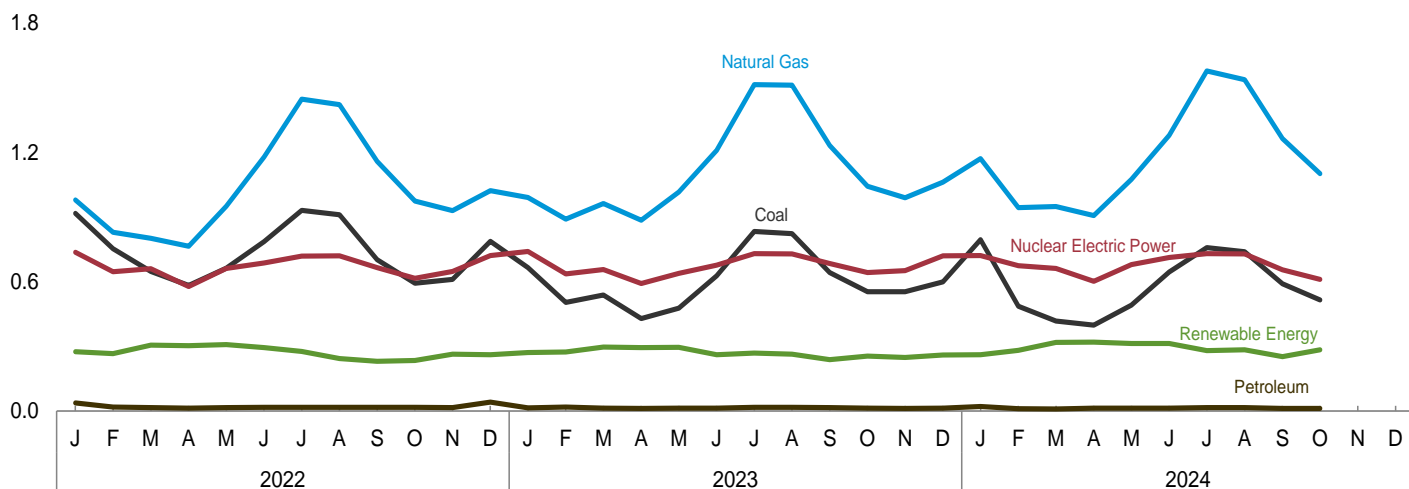
Figure 2.6 Electric Power Sector Energy Consumption

(Quadrillion Btu)

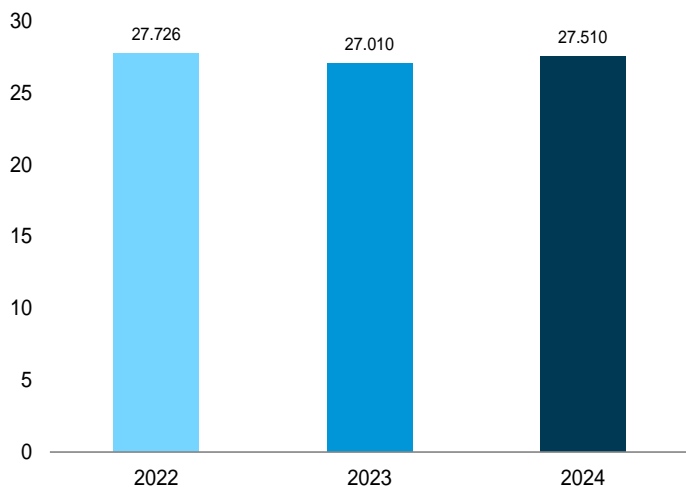
By Major Source, 1949–2023



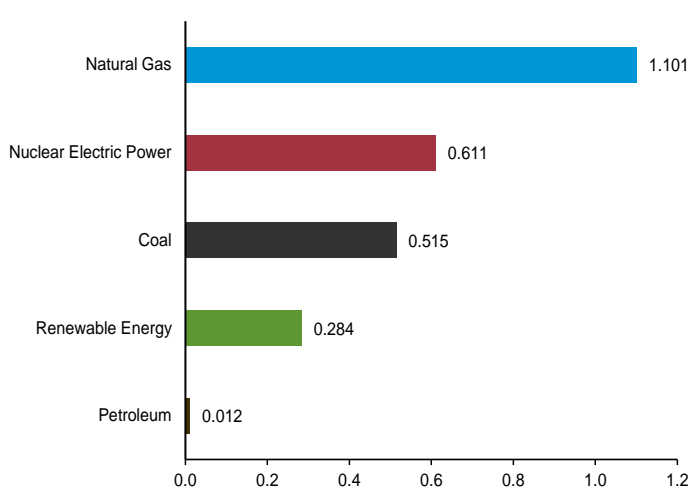
By Major Source, Monthly



Total, January–October



By Major Source, October 2024



Web Page: <http://www.eia.gov/totalenergy/data/monthly/#consumption>.
Source: Table 2.6.

Table 2.6 Electric Power Sector Energy Consumption
(Trillion Btu)

	Primary Consumption ^a													Total Primary
	Fossil Fuels				Nuclear Electric Power	Renewable Energy ^b						Elec- tricity Net Imports ^f		
	Coal	Natural Gas ^c	Petro- leum	Total		Hydro- electric Power ^d	Geo- thermal	Solar ^e	Wind	Bio- mass	Total			
1950 Total	2,199	651	472	3,322	0	327	NA	NA	NA	5	333	6	3,661	
1955 Total	3,458	1,194	471	5,123	0	385	NA	NA	NA	3	389	14	5,525	
1960 Total	4,228	1,785	553	6,565	6	498	(s)	NA	NA	2	499	15	7,086	
1965 Total	5,821	2,395	722	8,938	43	661	1	NA	NA	3	665	(s)	9,646	
1970 Total	7,227	4,054	2,117	13,399	239	845	2	NA	NA	4	851	7	14,495	
1975 Total	8,786	3,240	3,166	15,191	1,900	1,024	11	NA	NA	2	1,037	21	18,149	
1980 Total	12,123	3,778	2,634	18,534	2,739	942	17	NA	NA	4	964	71	22,309	
1985 Total	14,542	3,135	1,090	18,767	4,076	959	32	(s)	(s)	14	1,006	140	23,988	
1990 Total	16,261	3,309	1,289	20,859	6,104	989	53	1	10	317	1,369	8	28,340	
1995 Total	17,466	4,302	755	22,523	7,075	1,042	46	2	11	422	1,522	134	31,254	
2000 Total	20,220	5,293	1,144	26,658	7,862	926	48	2	19	453	1,447	115	36,083	
2005 Total	20,737	6,015	1,222	27,974	8,161	911	50	2	61	406	1,430	85	37,649	
2010 Total	19,133	7,528	370	27,031	8,434	882	52	4	323	459	1,720	89	37,275	
2011 Total	18,035	7,712	295	26,042	8,269	1,083	52	6	410	437	1,988	127	36,426	
2012 Total	15,821	9,287	214	25,322	8,062	934	53	14	480	453	1,935	161	35,480	
2013 Total	16,451	8,376	255	25,082	8,244	904	54	30	572	470	2,030	197	35,554	
2014 Total	16,427	8,362	295	25,085	8,338	880	54	59	619	530	2,143	182	35,747	
2015 Total	14,138	9,926	276	24,341	8,337	845	54	83	650	525	2,158	227	35,063	
2016 Total	12,996	10,301	244	23,542	8,427	909	54	121	774	505	2,363	227	34,558	
2017 Total	12,622	9,555	218	22,395	8,419	1,019	54	180	867	510	2,630	192	33,636	
2018 Total	12,053	10,922	260	23,235	8,438	993	54	216	929	496	2,689	152	34,514	
2019 Total	10,181	11,658	189	22,028	8,452	978	51	243	1,009	448	2,729	133	33,343	
2020 Total	8,229	12,000	184	20,413	8,251	969	53	302	R 1,152	428	R 2,904	161	R 31,730	
2021 Total	9,498	11,583	205	21,285	8,131	854	53	391	1,289	426	3,014	134	32,564	
2022 January	917	979	37	1,933	737	82	5	27	128	34	275	10	2,955	
February	753	829	19	1,600	646	72	4	31	128	32	267	6	2,520	
March	648	801	16	1,464	660	83	4	40	147	32	306	7	2,437	
April	583	765	14	1,362	578	68	4	45	157	28	303	9	2,252	
May	663	950	16	1,629	662	79	5	51	144	29	308	9	2,609	
June	786	1,179	17	1,982	687	88	4	54	115	31	294	15	2,977	
July	931	1,447	17	2,396	719	84	5	53	101	34	276	19	3,409	
August	911	1,422	17	2,350	720	72	5	49	84	33	243	20	3,333	
September	703	1,159	17	1,879	666	58	5	45	93	30	231	13	2,789	
October	593	975	17	1,585	616	49	4	40	112	29	234	10	2,445	
November	611	930	16	1,556	648	61	5	28	140	30	264	9	2,478	
December	787	1,023	41	1,851	722	69	5	23	132	32	261	14	2,848	
Total	8,885	12,459	244	21,589	8,061	865	55	487	1,481	374	3,263	141	33,053	
2023 January	666	R 991	15	R 1,672	741	77	5	26	131	32	271	11	R 2,695	
February	504	891	18	R 1,413	636	68	4	32	141	28	274	7	R 2,329	
March	538	R 963	13	1,514	657	72	5	41	149	30	297	9	R 2,477	
April	429	886	12	R 1,328	592	67	5	51	146	25	294	7	2,220	
May	477	1,016	14	R 1,508	639	94	5	59	110	28	295	9	2,451	
June	628	R 1,210	14	R 1,852	677	73	4	61	94	29	261	6	R 2,796	
July	833	R 1,515	17	R 2,365	730	75	4	64	96	30	269	4	R 3,369	
August	823	R 1,512	17	R 2,352	729	72	4	60	97	30	264	5	R 3,350	
September	642	R 1,232	16	R 1,889	685	57	4	53	97	26	238	(s)	R 2,813	
October	554	R 1,043	14	R 1,611	642	53	5	48	123	26	255	1	R 2,509	
November	554	990	12	1,555	651	58	5	35	124	27	249	2	R 2,457	
December	600	1,062	14	1,676	720	65	5	31	130	30	260	5	2,660	
Total	7,247	13,314	176	20,737	8,099	832	56	562	1,436	342	3,228	65	32,129	
2024 January	795	1,171	21	1,987	722	74	5	33	119	30	261	6	2,975	
February	486	944	11	1,441	675	68	4	42	141	25	281	1	2,398	
March	418	949	10	1,377	662	79	4	54	155	26	318	-1	2,356	
April	398	907	13	1,318	602	66	5	65	161	23	320	-2	2,238	
May	491	1,075	13	1,580	679	77	4	75	132	27	314	(s)	2,573	
June	645	1,280	14	1,939	713	72	4	82	130	26	314	5	2,971	
July	758	1,578	16	2,353	730	72	5	82	95	27	280	11	3,374	
August	739	1,537	16	2,291	729	73	4	81	98	28	284	10	3,314	
September	591	1,264	12	1,867	655	57	4	68	99	25	253	7	2,782	
October	515	1,101	12	1,628	611	54	4	66	136	24	284	6	2,529	
10-Month Total	5,837	11,805	138	17,780	6,779	691	44	648	1,266	260	2,909	42	27,510	
2023 10-Month Total	6,093	11,261	150	17,505	6,729	710	46	495	1,182	285	2,718	58	27,010	
2022 10-Month Total	7,488	10,505	187	18,180	6,691	735	45	436	1,208	313	2,737	118	27,726	

^a See "Primary Energy Consumption" in Glossary.
^b See Table 10.2c for notes on series components.
^c Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
^d Conventional hydroelectric power.
^e Solar photovoltaic (PV) and solar thermal electricity net generation in the electric power sector. See Tables 10.2c and 10.5.
^f Net imports equal imports minus exports.
^g Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.
NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Data are for fuels consumed to produce electricity and useful thermal output. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • See Note 3, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.
Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#consumption> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.
Sources: See end of section.

Table 2.7 U.S. Government Energy Consumption by Agency, Fiscal Years
(Trillion Btu)

Fiscal Year ^a	Agri-culture	Defense	DHS ^b	Energy	GSA ^c	HHS ^d	Interior	Justice	NASA ^e	Postal Service	Trans- portation	Veterans Affairs	Other ^f	Total
1975	9.5	1,360.2	--	50.4	22.3	6.5	9.4	5.9	13.4	30.5	19.3	27.1	10.5	1,565.0
1976	9.3	1,183.3	--	50.3	20.6	6.7	9.4	5.7	12.4	30.0	19.5	25.0	11.2	1,383.4
1977	8.9	1,192.3	--	51.6	20.4	6.9	9.5	5.9	12.0	32.7	20.4	25.9	11.9	1,398.5
1978	9.1	1,157.8	--	50.1	20.4	6.5	9.2	5.9	11.2	30.9	20.6	26.8	12.4	1,360.9
1979	9.2	1,175.8	--	49.6	19.6	6.4	10.4	6.4	11.1	29.3	19.6	25.7	12.3	1,375.4
1980	8.6	1,183.1	--	47.4	18.1	6.0	8.5	5.7	10.4	27.2	19.2	24.8	12.3	1,371.2
1981	7.9	1,239.5	--	47.3	18.0	6.7	7.6	5.4	10.0	27.9	18.8	24.0	11.1	1,424.2
1982	7.6	1,264.5	--	49.0	18.1	6.4	7.4	5.8	10.1	27.5	19.1	24.2	11.6	1,451.4
1983	7.4	1,248.3	--	49.5	16.1	6.2	7.7	5.5	10.3	26.5	19.4	24.1	10.8	1,431.8
1984	7.9	1,292.1	--	51.6	16.2	6.4	8.4	6.4	10.6	27.7	19.8	24.6	10.7	1,482.5
1985	8.4	1,250.6	--	52.2	20.7	6.0	7.8	8.2	10.9	27.8	19.6	25.1	13.1	1,450.3
1986	6.8	1,222.8	--	46.9	14.0	6.2	6.9	8.6	11.2	28.0	19.4	25.0	10.8	1,406.7
1987	7.3	1,280.5	--	48.5	13.1	6.6	6.6	8.1	11.3	28.5	19.0	24.9	11.9	1,466.3
1988	7.8	1,165.8	--	49.9	12.4	6.4	7.0	9.4	11.3	29.6	18.7	26.3	15.8	1,360.3
1989	8.7	1,274.4	--	44.2	12.7	6.7	7.1	7.7	12.4	30.3	18.5	26.2	15.6	1,464.7
1990	9.6	1,241.7	--	43.5	17.5	7.1	7.4	7.0	12.4	30.6	19.0	24.9	17.5	1,438.0
1991	9.6	1,269.3	--	42.1	14.0	6.2	7.1	8.0	12.5	30.8	19.0	25.1	18.1	1,461.7
1992	9.1	1,104.0	--	44.3	13.8	6.8	7.0	7.5	12.6	31.7	17.0	25.3	15.7	1,294.8
1993	9.3	1,048.8	--	43.4	14.1	7.2	7.5	9.1	12.4	33.7	19.4	25.7	16.2	1,246.8
1994	9.4	977.0	--	42.1	14.0	7.5	7.9	10.3	12.6	35.0	19.8	25.6	17.1	1,178.2
1995	9.0	926.0	--	47.3	13.7	6.1	6.4	10.2	12.4	36.2	18.7	25.4	17.1	1,128.5
1996	9.1	904.5	--	44.6	14.5	6.6	4.3	12.1	11.5	36.4	19.6	26.8	17.7	1,107.7
1997	7.4	880.0	--	43.1	14.4	7.9	6.6	12.0	12.0	40.8	19.1	27.3	20.8	1,091.2
1998	7.9	837.1	--	31.5	14.1	7.4	6.4	15.8	11.7	39.5	18.5	27.6	19.5	1,037.1
1999	7.8	810.7	--	27.0	14.4	7.1	7.5	15.4	11.4	39.8	22.6	27.5	19.8	1,010.9
2000	7.4	779.1	--	30.5	17.6	8.0	7.8	19.7	11.1	43.3	21.2	27.0	20.3	993.1
2001	7.4	787.2	--	31.1	18.4	8.5	9.5	19.7	10.9	43.4	17.8	27.7	20.7	1,002.3
2002	7.2	837.5	--	30.7	17.5	8.0	8.2	17.7	10.7	41.6	18.3	27.7	18.4	1,043.4
2003	7.7	895.1	18.3	31.9	18.5	10.1	7.3	22.7	10.8	50.9	5.5	30.6	22.7	1,132.3
2004	7.0	960.7	23.5	31.4	18.3	8.8	8.7	17.5	9.9	50.5	5.2	29.9	20.4	1,191.7
2005	7.5	933.2	18.9	29.6	18.4	9.6	8.6	18.8	10.3	53.5	5.0	30.0	23.2	1,166.4
2006	6.8	843.7	17.1	32.9	18.2	9.3	8.1	23.5	10.2	51.8	4.6	29.3	20.9	1,076.4
2007	6.8	864.6	17.1	31.5	19.1	9.9	7.5	20.7	10.6	45.8	5.6	30.0	21.0	1,090.2
2008	6.5	910.8	22.0	32.1	18.8	10.3	7.1	19.0	10.8	47.1	7.7	29.0	22.4	1,143.4
2009	6.6	874.3	18.6	31.1	18.6	10.8	7.9	16.5	10.2	44.2	4.3	29.9	21.8	1,094.8
2010	6.8	889.9	21.2	31.7	18.8	10.4	7.3	15.7	10.1	43.3	5.7	30.2	21.8	1,112.7
2011	8.3	890.3	20.3	33.1	18.5	10.5	7.3	13.9	10.1	43.0	6.7	30.6	21.4	1,114.1
2012	6.7	828.5	20.1	30.3	16.3	10.0	6.7	15.1	8.9	40.8	5.6	29.7	20.5	1,039.3
2013	7.3	749.5	18.9	28.9	16.4	10.5	6.2	15.3	8.7	41.9	6.2	29.9	20.4	960.1
2014	6.3	730.6	18.5	29.4	17.0	9.5	6.2	15.6	8.3	43.0	6.3	31.4	20.6	942.6
2015	6.2	734.5	17.9	30.1	16.3	9.0	6.8	16.2	8.4	44.0	6.0	30.7	19.8	945.8
2016	6.2	709.2	18.1	28.9	15.8	8.7	6.4	15.6	8.5	43.9	6.0	30.3	19.5	917.2
2017	6.3	707.9	19.2	28.8	15.0	8.8	5.9	15.5	8.6	43.7	6.6	29.1	19.7	915.1
2018	6.1	690.6	16.8	27.3	15.6	10.0	6.1	16.2	8.4	45.5	7.0	29.7	18.8	898.2
2019	5.9	682.1	16.2	27.2	15.4	9.8	6.2	15.8	8.5	46.0	7.1	31.9	19.1	891.2
2020	5.4	648.8	17.1	26.4	14.4	9.5	5.5	14.6	8.1	46.1	6.4	30.6	17.0	850.0
2021	6.4	650.7	15.9	27.5	13.2	9.1	5.4	14.5	8.1	45.5	6.8	30.3	17.6	851.0
2022	8.0	622.5	16.5	26.3	12.8	9.6	6.3	14.5	8.5	48.3	6.6	30.8	17.2	827.6
2023	7.9	605.1	15.8	27.8	12.7	9.6	5.8	14.0	7.9	48.4	8.8	30.8	17.1	811.8

^a For 1975 and 1976, the U.S. Government's fiscal year was July 1 through June 30. Beginning in 1977, the U.S. Government's fiscal year is October 1 through September 30 (for example, fiscal year 2014 is October 2013 through September 2014).

^b U.S. Department of Homeland Security.

^c General Services Administration.

^d U.S. Department of Health and Human Services.

^e National Aeronautics and Space Administration.

^f Includes all U.S. government agencies not separately displayed. See <http://ctsedweb.ee.doe.gov/Annual/Report/AgencyReference.aspx> for agency list. -- = Not applicable.

Notes: • Data in this table are developed using conversion factors that often

differ from those in Tables A1–A6. • Data include energy consumed at foreign installations and in foreign operations, including aviation and ocean bunkering, primarily by the U.S. Department of Defense. U.S. Government energy use for electricity generation and uranium enrichment is excluded. • Totals may not equal sum of components due to independent rounding.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#consumption> (Excel and CSV files) for all annual data beginning in 1975.

Sources: U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, Federal Energy Management Program. See <http://ctsedweb.ee.doe.gov/Annual/Report/Report.aspx>, "A-1 Total Site-Delivered Energy Use in All End-Use Sectors, by Federal Agency (Billion Btu)".

Table 2.8 U.S. Government Energy Consumption by Source, Fiscal Years
(Trillion Btu)

Fiscal Year ^a	Coal	Natural Gas ^b	Petroleum						Other Mobility Fuels ^f	Electricity	Purchased Steam and Other ^g	Total
			Aviation Gasoline	Fuel Oil ^c	Jet Fuel	LPG ^d	Motor Gasoline ^e	Total				
1975	77.9	166.2	22.0	376.0	707.4	5.6	63.2	1,174.2	0.0	141.5	5.1	1,565.0
1976	71.3	151.8	11.6	329.7	610.0	4.7	60.4	1,016.4	.0	139.3	4.6	1,383.4
1977	68.4	141.2	8.8	348.5	619.2	4.1	61.4	1,042.1	.0	141.1	5.7	1,398.5
1978	66.0	144.7	6.2	332.3	601.1	3.0	60.1	1,002.9	.0	141.0	6.4	1,360.9
1979	65.1	148.9	4.7	327.1	618.6	3.7	59.1	1,013.1	.0	141.2	7.1	1,375.4
1980	63.5	147.3	4.9	307.7	638.7	3.8	56.5	1,011.6	.2	141.9	6.8	1,371.2
1981	65.1	142.2	4.6	351.3	653.3	3.5	53.2	1,066.0	.2	144.5	6.2	1,424.2
1982	68.6	146.2	3.6	349.4	672.7	3.7	53.1	1,082.5	.2	147.5	6.2	1,451.4
1983	62.4	147.8	2.6	329.5	673.4	3.8	51.6	1,060.8	.2	151.5	9.0	1,431.8
1984	65.3	157.4	1.9	342.9	693.7	3.9	51.2	1,093.6	.2	155.9	10.1	1,482.5
1985	64.8	149.9	1.9	292.6	705.7	3.8	50.4	1,054.3	.2	167.2	13.9	1,450.3
1986	63.8	140.9	1.4	271.6	710.2	3.6	45.3	1,032.1	.3	155.8	13.7	1,406.7
1987	67.0	145.6	1.0	319.5	702.3	3.6	43.1	1,069.5	.4	169.9	13.9	1,466.3
1988	60.2	144.6	6.0	284.8	617.2	2.7	41.2	951.9	.4	171.2	32.0	1,360.3
1989	48.7	152.4	.8	245.3	761.7	3.5	41.1	1,052.4	2.2	188.6	20.6	1,464.7
1990	44.3	159.4	.5	245.2	732.4	3.8	37.2	1,019.1	2.6	193.6	19.1	1,438.0
1991	45.9	154.1	.4	232.6	774.5	3.0	34.1	1,044.7	6.0	192.7	18.3	1,461.7
1992	51.7	151.2	1.0	200.6	628.2	3.0	35.6	868.4	8.4	192.5	22.5	1,294.8
1993	38.3	152.9	.7	187.0	612.4	3.5	34.5	838.1	5.8	193.1	18.6	1,246.8
1994	35.0	143.9	.6	198.5	550.7	3.2	29.5	782.6	7.7	190.9	18.2	1,178.2
1995	31.7	149.4	.3	178.4	522.3	3.0	31.9	735.9	8.4	184.8	18.2	1,128.5
1996	23.3	147.3	.2	170.5	513.0	3.1	27.6	714.4	18.7	184.0	20.1	1,107.7
1997	22.5	153.8	.3	180.0	475.7	2.6	39.0	697.6	14.5	183.6	19.2	1,091.2
1998	23.9	140.4	.2	174.5	445.5	3.5	43.0	666.8	5.9	181.4	18.8	1,037.1
1999	21.2	137.4	.1	162.1	444.7	2.4	41.1	650.4	.4	180.0	21.5	1,010.9
2000	22.7	133.8	.2	171.3	403.1	2.5	43.9	621.0	1.8	193.6	20.2	993.1
2001	18.8	133.7	.2	176.9	415.2	3.1	42.5	638.0	4.8	188.4	18.6	1,002.3
2002	16.9	133.7	.2	165.6	472.9	2.8	41.3	682.8	3.2	188.3	18.5	1,043.4
2003	18.1	135.5	.3	190.8	517.9	3.2	46.3	758.4	3.3	193.8	23.2	1,132.3
2004	17.4	135.3	.2	261.4	508.2	2.9	44.1	816.9	3.1	197.1	22.0	1,191.7
2005	17.1	135.7	.4	241.4	492.2	3.4	48.8	786.1	5.6	197.6	24.3	1,166.4
2006	23.5	132.6	.6	209.3	442.6	2.7	48.3	703.6	2.1	196.7	18.2	1,076.4
2007	20.4	131.5	.4	212.9	461.1	2.7	46.5	723.7	2.9	194.9	16.7	1,090.2
2008	20.8	129.6	.4	198.4	525.4	2.3	49.0	775.4	3.6	196.2	17.9	1,143.4
2009	20.3	131.7	.3	166.4	505.7	3.2	48.3	723.9	10.1	191.3	17.7	1,094.8
2010	20.0	130.1	.4	157.8	535.8	2.5	51.3	747.7	3.0	193.7	18.2	1,112.7
2011	18.5	124.7	.9	166.5	533.6	2.0	52.7	755.8	2.7	193.2	19.1	1,114.1
2012	15.9	116.2	.4	148.6	493.5	1.7	50.1	694.4	3.1	187.2	22.5	1,039.3
2013	14.3	122.5	.7	140.8	424.0	1.9	46.6	614.0	2.8	184.7	21.8	960.1
2014	13.5	125.6	.3	134.6	414.3	1.8	44.9	595.9	3.6	182.1	21.9	942.6
2015	12.6	122.2	.3	135.0	418.9	1.8	46.8	602.8	3.0	184.3	20.9	945.8
2016	10.2	115.4	.3	130.5	403.9	1.7	46.5	583.0	2.7	184.5	21.4	917.2
2017	9.1	115.1	.3	135.1	400.1	1.5	46.4	583.5	2.7	181.7	23.0	915.1
2018	6.2	125.8	.3	129.4	383.2	1.7	45.5	560.0	2.6	180.0	23.6	898.2
2019	5.0	131.7	.3	127.2	376.8	1.9	46.6	552.8	2.1	178.2	21.5	891.2
2020	5.2	128.3	.2	131.0	345.0	1.7	43.3	521.3	1.2	173.7	20.3	850.0
2021	5.3	128.4	.4	123.9	352.0	1.7	44.6	522.6	1.3	173.2	20.3	851.0
2022	3.5	128.3	.2	127.9	326.9	1.6	44.4	501.1	1.2	172.1	21.6	827.6
2023	4.0	131.7	.2	125.5	311.4	1.8	46.7	485.5	1.1	170.3	19.3	811.8

^a For 1975 and 1976, the U.S. Government's fiscal year was July 1 through June 30. Beginning in 1977, the U.S. Government's fiscal year is October 1 through September 30 (for example, fiscal year 2014 is October 2013 through September 2014).

^b Natural gas, plus a small amount of supplemental gaseous fuels.

^c Distillate fuel oil, including diesel fuel; and residual fuel oil, including Navy Special.

^d Liquefied petroleum gases, primarily propane.

^e Includes E10 (a mixture of 10% ethanol and 90% motor gasoline) and E15 (a mixture of 15% ethanol and 85% motor gasoline).

^f Other types of fuel used in vehicles and equipment. Primarily includes alternative fuels such as compressed natural gas (CNG); liquefied natural gas (LNG); E85 (a mixture of 85% ethanol and 15% motor gasoline); B20 (a mixture of 20% biodiesel and 80% diesel fuel); B100 (100% biodiesel); hydrogen; and methanol.

^g Other types of energy used in facilities. Primarily includes chilled water, but also includes small amounts of renewable energy such as wood and solar thermal.

Notes: • Data in this table are developed using conversion factors that often differ from those in Tables A1–A6. • Data include energy consumed at foreign installations and in foreign operations, including aviation and ocean bunkering, primarily by the U.S. Department of Defense. U.S. Government energy use for electricity generation and uranium enrichment is excluded. • Totals may not equal sum of components due to independent rounding.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#consumption> (Excel and CSV files) for all annual data beginning in 1975.

Sources: U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, Federal Energy Management Program. See <http://ctswebweb.ee.doe.gov/Annual/Report/Report.aspx>, "A-5 Historical Federal Energy Consumption and Cost Data by Agency and Energy Type (FY 1975 to Present)".

Energy Consumption by Sector

Note 1. Electrical System Energy Losses. Electrical system energy losses are calculated as the difference between total primary consumption by the electric power sector (see Table 2.6) and the total energy content of electricity sales to ultimate customers (see Tables 7.6 and A6). Most of these losses are from the conversion of heat energy into mechanical energy to turn electric generators at fossil fuel, biomass, and nuclear plants. These losses are a necessary feature of the thermodynamic cycles of these power plants (steam-electric, gas-electric, and combined-cycle). Overall, about two thirds of total energy input is lost in conversion. In addition to conversion losses, other losses include power plant use of electricity, transmission and distribution of electricity from power plants to end-use consumers (also called “line losses”), and unaccounted-for electricity. Currently, of electricity generated, approximately 5% is lost in plant use and 7% is lost in transmission and distribution. Total losses are allocated to the end-use sectors in proportion to each sector’s share of total electricity sales.

Note 2. Other Energy Losses. Similar to electrical system energy losses, there are also other energy losses from energy consumption not separately identified. There are losses in the production of energy, the transformation of one form of energy to another form of energy, and the distribution and use of energy. For example, there are transformation losses in the process of refining crude oil into usable petroleum products, processing natural gas into marketable dry gas, and in the process of converting energy from the sun into usable energy with solar panels. All uses of primary energy have efficiency losses, usually in the form of heat, when energy is converted to do useful work. Examples include when motor gasoline is burned to move vehicles, when natural gas is burned to heat homes, or in any household appliance that uses electricity. The Lawrence Livermore National Laboratory estimates primary energy losses by end-use sector by applying an end-use efficiency factor to EIA’s *Monthly Energy Review* consumption data. <https://flowcharts.llnl.gov/>.

Note 3. Energy Consumption Data and Surveys. Most of the data in this section of the Monthly Energy Review (MER) are developed from a group of energy-related surveys, typically called “supply surveys,” conducted by the U.S. Energy Information Administration (EIA). Supply surveys are directed to suppliers and marketers of specific energy sources. They measure the quantities of specific energy sources produced, or the quantities supplied to the market, or both. The data obtained from EIA’s supply surveys are integrated to yield the summary consumption statistics published in this section (and in Section 1) of the MER.

Users of EIA’s energy consumption statistics should be aware of a second group of energy-related surveys, typically called “consumption surveys.” Consumption surveys gather information on the types of energy consumed by end users of energy, along with the characteristics of those end users that can be associated with energy use. For example, the “Manufacturing Energy Consumption Survey” belongs to the consumption survey group because it collects information directly from end users (the manufacturing establishments). There are important differences between the supply and consumption surveys that need to be taken into account in any analysis that uses both data sources. For information on those differences, see “Energy Consumption by End-Use Sector, A Comparison of Measures by Consumption and Supply Surveys,” DOE/EIA-0533, U.S. Energy Information Administration, Washington, DC, April 6, 1990.

Table 2.2 Sources

Coal

1949–2007: Residential sector coal consumption data from Table 6.2 are converted to Btu by multiplying by the residential and commercial sectors coal consumption heat content factors in Table A5.

Natural Gas

1949–1979: Residential sector natural gas (including supplemental gaseous fuels) consumption data from Table 4.3 are converted to Btu by multiplying by the natural gas end-use sectors consumption heat content factors in Table A4.

1980 forward: Residential sector natural gas (including supplemental gaseous fuels) consumption data from Table 4.3 are converted to Btu by multiplying by the natural gas end-use sectors consumption heat content factors in Table A4. The residential sector portion of supplemental gaseous fuels data in Btu is estimated using the method described in Note 3, “Supplemental Gaseous Fuels,” at the end of Section 4. Residential sector natural gas (excluding supplemental

gaseous fuels) consumption is equal to residential sector natural gas (including supplemental gaseous fuels) consumption minus the residential sector portion of supplemental gaseous fuels.

Petroleum

1949 forward: Table 3.8a.

Fossil Fuels Total

1949–2007: Residential sector total fossil fuels consumption is the sum of the residential sector consumption values for coal, natural gas, and petroleum.

2008 forward: Residential sector total fossil fuels consumption is the sum of the residential sector consumption values for natural gas and petroleum.

Renewable Energy

1949 forward: Table 10.2a.

Total Primary Energy Consumption

1949 forward: Residential sector total primary energy consumption is the sum of the residential sector consumption values for fossil fuels and renewable energy.

Electricity Sales to Ultimate Customers

1949 forward: Residential sector electricity sales to ultimate customers from Table 7.6 are converted to Btu by multiplying by the electricity heat content factor in Table A6.

End-Use Energy Consumption

1949 forward: Residential sector end-use energy consumption is the sum of residential sector total primary energy consumption and residential sector electricity sales to ultimate customers.

Electrical System Energy Losses

1949 forward: Total electrical system energy losses are equal to electric power sector total primary energy consumption from Table 2.6 minus total electricity sales to ultimate customers from Table 7.6 (converted to Btu by multiplying by the electricity heat content factor in Table A6). Total electrical system energy losses are allocated to the residential sector in proportion to the residential sector's share of total electricity sales to ultimate customers from Table 7.6. See Note 1, "Electrical System Energy Losses."

Total Energy Consumption

1949 forward: Residential sector total energy consumption is the sum of the residential sector consumption values for total primary energy, electricity sales to ultimate customers, and electrical system energy losses.

Table 2.3 Sources

Coal

1949 forward: Commercial sector coal consumption data from Table 6.2 are converted to Btu by multiplying by the residential and commercial sectors coal consumption heat content factors in Table A5.

Natural Gas

1949–1979: Commercial sector natural gas (including supplemental gaseous fuels) consumption data from Table 4.3 are converted to Btu by multiplying by the natural gas end-use sectors consumption heat content factors in Table A4.

1980 forward: Commercial sector natural gas (including supplemental gaseous fuels) consumption data from Table 4.3 are converted to Btu by multiplying by the natural gas end-use sectors consumption heat content factors in Table A4. The commercial sector portion of supplemental gaseous fuels data in Btu is estimated using the method described in Note 3, "Supplemental Gaseous Fuels," at the end of Section 4. Commercial sector natural gas (excluding supplemental gaseous fuels) consumption is equal to commercial sector natural gas (including supplemental gaseous fuels) consumption minus the commercial sector portion of supplemental gaseous fuels.

Petroleum

1949–1992: Table 3.8a.

1993–2008: The commercial sector share of motor gasoline consumption is equal to commercial sector motor gasoline consumption from Table 3.7a divided by motor gasoline product supplied from Table 3.5. Commercial sector fuel ethanol (including denaturant) consumption is equal to total fuel ethanol (including denaturant) consumption from Table 10.3 multiplied by the commercial sector share of motor gasoline consumption. Commercial sector petroleum (excluding biofuels) consumption is equal to commercial sector petroleum (including biofuels) consumption from Table 3.8a minus commercial sector fuel ethanol (including denaturant) consumption.

2009 forward: Commercial sector fuel ethanol (minus denaturant) consumption is equal to total fuel ethanol (minus denaturant) consumption from Table 10.3 multiplied by the commercial sector share of motor gasoline consumption (see 1993–2008 sources above). Commercial sector petroleum (excluding biofuels) consumption is equal to commercial sector petroleum (including biofuels) consumption from Table 3.8a minus commercial sector fuel ethanol (minus denaturant) consumption.

Fossil Fuels Total

1949 forward: Commercial sector total fossil fuels consumption is the sum of the commercial sector consumption values for coal, natural gas, and petroleum.

Renewable Energy

1949 forward: Table 10.2a.

Total Primary Energy Consumption

1949 forward: Commercial sector total primary energy consumption is the sum of the commercial sector consumption values for fossil fuels and renewable energy.

Electricity Sales to Ultimate Customers

1949 forward: Commercial sector electricity sales to ultimate customers from Table 7.6 are converted to Btu by multiplying by the electricity heat content factor in Table A6.

End-Use Energy Consumption

1949 forward: Commercial sector end-use energy consumption is the sum of commercial sector total primary energy consumption and commercial sector electricity sales to ultimate customers.

Electrical System Energy Losses

1949 forward: Total electrical system energy losses are equal to electric power sector total primary energy consumption from Table 2.6 minus total electricity sales to ultimate customers from Table 7.6 (converted to Btu by multiplying by the electricity heat content factor in Table A6). Total electrical system energy losses are allocated to the commercial sector in proportion to the commercial sector's share of total electricity sales to ultimate customers from Table 7.6. See Note 1, "Electrical System Energy Losses."

Total Energy Consumption

1949 forward: Commercial sector total energy consumption is the sum of the commercial sector consumption values for total primary energy, electricity sales to ultimate customers, and electrical system energy losses.

Table 2.4 Sources

Coal

1949 forward: Coke plants coal consumption from Table 6.2 is converted to Btu by multiplying by the coke plants coal consumption heat content factors in Table A5. Other industrial coal consumption from Table 6.2 is converted to Btu by multiplying by the other industrial coal consumption heat content factors in Table A5. Industrial sector coal consumption is equal to coke plants coal consumption and other industrial coal consumption.

Natural Gas

1949–1979: Industrial sector natural gas (including supplemental gaseous fuels) consumption data from Table 4.3 are converted to Btu by multiplying by the natural gas end-use sectors consumption heat content factors in Table A4.

1980 forward: Industrial sector natural gas (including supplemental gaseous fuels) consumption data from Table 4.3 are converted to Btu by multiplying by the natural gas end-use sectors consumption heat content factors in Table A4. The industrial sector portion of supplemental gaseous fuels data in Btu is estimated using the method described in Note 3, “Supplemental Gaseous Fuels,” at the end of Section 4. Industrial sector natural gas (excluding supplemental gaseous fuels) consumption is equal to industrial sector natural gas (including supplemental gaseous fuels) consumption minus the industrial sector portion of supplemental gaseous fuels.

Petroleum

1949–1992: Table 3.8b.

1993–2008: The industrial sector share of motor gasoline consumption is equal to industrial sector motor gasoline consumption from Table 3.7b divided by motor gasoline product supplied from Table 3.5. Industrial sector fuel ethanol (including denaturant) consumption is equal to total fuel ethanol (including denaturant) consumption from Table 10.3 multiplied by the industrial sector share of motor gasoline consumption. Industrial sector petroleum (excluding biofuels) consumption is equal to industrial sector petroleum (including biofuels) consumption from Table 3.8b minus industrial sector fuel ethanol (including denaturant) consumption.

2009 forward: Industrial sector fuel ethanol (minus denaturant) consumption is equal to total fuel ethanol (minus denaturant) consumption from Table 10.3 multiplied by the industrial sector share of motor gasoline consumption (see 1993–2008 sources above). Industrial sector petroleum (excluding biofuels) consumption is equal to industrial sector petroleum (including biofuels) consumption from Table 3.8b minus industrial sector fuel ethanol (minus denaturant) consumption.

Coal Coke Net Imports

1949 forward: Coal coke net imports are equal to coal coke imports from Table 1.4a minus coal coke exports from Table 1.4b.

Fossil Fuels Total

1949 forward: Industrial sector total fossil fuels consumption is the sum of the industrial sector consumption values for coal, natural gas, and petroleum, plus coal coke net imports.

Renewable Energy

1949 forward: Table 10.2b.

Total Primary Energy Consumption

1949 forward: Industrial sector total primary energy consumption is the sum of the industrial sector consumption values for fossil fuels and renewable energy.

Electricity Sales to Ultimate Customers

1949 forward: Industrial sector electricity sales to ultimate customers from Table 7.6 are converted to Btu by multiplying by the electricity heat content factor in Table A6.

End-Use Energy Consumption

1949 forward: Industrial sector end-use energy consumption is the sum of industrial sector total primary energy consumption and residential sector electricity sales to ultimate customers.

Electrical System Energy Losses

1949 forward: Total electrical system energy losses are equal to electric power sector total primary energy consumption from Table 2.6 minus total electricity sales to ultimate customers from Table 7.6 (converted to Btu by multiplying by the electricity heat content factor in Table A6). Total electrical system energy losses are allocated to the industrial sector in

proportion to the industrial sector's share of total electricity sales to ultimate customers from Table 7.6. See Note 1, "Electrical System Energy Losses."

Total Energy Consumption

1949 forward: Industrial sector total energy consumption is the sum of the industrial sector consumption values for total primary energy, electricity sales to ultimate customers, and electrical system energy losses.

Table 2.5 Sources

Coal

1949–1977: Transportation sector coal consumption data from Table 6.2 are converted to Btu by multiplying by the other industrial sector coal consumption heat content factors in Table A5.

Natural Gas

1949 forward: Transportation sector natural gas consumption data from Table 4.3 are converted to Btu by multiplying by the natural gas end-use sectors consumption heat content factors in Table A4.

Petroleum

1949–1992: Table 3.8c.

1993–2008: The transportation sector share of motor gasoline consumption is equal to transportation sector motor gasoline consumption from Table 3.7c divided by motor gasoline product supplied from Table 3.5. Transportation sector fuel ethanol (including denaturant) consumption is equal to total fuel ethanol (including denaturant) consumption from Table 10.3 multiplied by the transportation sector share of motor gasoline consumption. Transportation sector petroleum (excluding biofuels) consumption is equal to transportation sector petroleum (including biofuels) consumption from Table 3.8c minus transportation sector fuel ethanol (including denaturant) consumption.

2009–2011: Transportation sector fuel ethanol (minus denaturant) consumption is equal to total fuel ethanol (minus denaturant) consumption from Table 10.3 multiplied by the transportation sector share of motor gasoline consumption (see 1993–2008 sources above). Transportation sector petroleum (excluding biofuels) consumption is equal to: transportation sector petroleum (including biofuels) consumption from Table 3.8c; minus transportation sector fuel ethanol (minus denaturant) consumption; minus biodiesel consumption, calculated using biodiesel data from U.S. Energy Information Administration (EIA), EIA-22M, "Monthly Biodiesel Production Survey"; and biomass-based diesel fuel data from EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," and EIA-815, "Monthly Bulk Terminal and Blender Report" (the data are converted to Btu by multiplying by the biodiesel heat content factor in Table A1); minus renewable diesel fuel and other biofuels refinery and blender net inputs, calculated using "other renewable diesel fuel" and "other renewable fuels" data from EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal and Blender Report" (the data are converted to Btu by multiplying by the heat content factors for renewable diesel fuel and other biofuels in Table A1).

2012–2020: Transportation sector fuel ethanol (minus denaturant) consumption is equal to total fuel ethanol (minus denaturant) consumption from Table 10.3 multiplied by the transportation sector share of motor gasoline consumption (see 1993–2008 sources above). Transportation sector petroleum (excluding biofuels) consumption is equal to: transportation sector petroleum (including biofuels) consumption from Table 3.8c; minus transportation sector fuel ethanol (minus denaturant) consumption; minus biodiesel consumption from Table 10.4; minus renewable diesel fuel and other biofuels refinery and blender net inputs, calculated using "other renewable diesel fuel" and "other renewable fuels" data from EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal and Blender Report" (the data are converted to Btu by multiplying by the heat content factors for renewable diesel fuel and other biofuels in Table A1).

2021 forward: Transportation sector fuel ethanol (minus denaturant) consumption is equal to total fuel ethanol (minus denaturant) consumption from Table 10.3 multiplied by the transportation sector share of motor gasoline consumption (see 1993–2008 sources above). Transportation sector petroleum (excluding biofuels) consumption is equal to: transportation sector petroleum (including biofuels) consumption from Table 3.8c; minus transportation sector fuel ethanol (minus denaturant) consumption; minus biodiesel, renewable diesel fuel, and other biofuels refinery and

blender net inputs and products supplied, calculated using “biofuels except fuel ethanol” refinery and blender net inputs and products supplied from U.S. Energy Information Administration (EIA), *Petroleum Supply Annual* and *Petroleum Supply Monthly* (data are converted to Btu by multiplying by the appropriate heat content factors in Table A1).

Fossil Fuels Total

1949–1977: Transportation sector total fossil fuels consumption is the sum of the transportation sector consumption values for coal, natural gas, and petroleum.

1978 forward: Transportation sector total fossil fuels consumption is the sum of the transportation sector consumption values for natural gas and petroleum.

Renewable Energy

1981 forward: Table 10.2b.

Total Primary Energy Consumption

1949 –1980: Transportation sector total primary energy consumption is equal to transportation sector fossil fuels consumption.

1981 forward: Transportation sector total primary energy consumption is the sum of the transportation sector consumption values for fossil fuels and renewable energy.

Electricity Sales to Ultimate Customers

1949 forward: Transportation sector electricity sales to ultimate customers from Table 7.6 are converted to Btu by multiplying by the electricity heat content factor in Table A6.

End-Use Energy Consumption

1949 forward: Transportation sector end-use energy consumption is the sum of transportation sector total primary energy consumption and residential sector electricity sales to ultimate customers.

Electrical System Energy Losses

1949 forward: Total electrical system energy losses are equal to electric power sector total primary energy consumption from Table 2.6 minus total electricity sales to ultimate customers from Table 7.6 (converted to Btu by multiplying by the electricity heat content factor in Table A6). Total electrical system energy losses are allocated to the transportation sector in proportion to the transportation sector’s share of total electricity sales to ultimate customers from Table 7.6. See Note 1, “Electrical System Energy Losses.”

Total Energy Consumption

1949 forward: Transportation sector total energy consumption is the sum of the transportation sector consumption values for total primary energy, electricity sales to ultimate customers, and electrical system energy losses.

Table 2.6 Sources

Coal

1949 forward: Electric power sector coal consumption data from Table 6.2 are converted to Btu by multiplying by the electric power sector coal consumption heat content factors in Table A5.

Natural Gas

1949–1979: Electric power sector natural gas (including supplemental gaseous fuels) consumption data from Table 4.3 are converted to Btu by multiplying by the natural gas electric power sector consumption heat content factors in Table A4.

1980 forward: Electric power sector natural gas (including supplemental gaseous fuels) consumption data from Table 4.3 are converted to Btu by multiplying by the natural gas electric power sector consumption heat content factors in Table A4. The electric power sector portion of supplemental gaseous fuels data in Btu is estimated using the method described in Note 3, “Supplemental Gaseous Fuels,” at the end of Section 4. Electric power sector natural gas (excluding

supplemental gaseous fuels) consumption is equal to electric power sector natural gas (including supplemental gaseous fuels) consumption minus the electric power sector portion of supplemental gaseous fuels.

Petroleum

1949 forward: Table 3.8c.

Fossil Fuels Total

1949 forward: Electric power sector total fossil fuels consumption is the sum of the electric power sector consumption values for coal, natural gas, and petroleum.

Nuclear Electric Power

1949 forward: Nuclear electricity net generation data from Table 7.2a are converted to Btu by multiplying by the nuclear heat rate factors in Table A6.

Renewable Energy

1949 forward: Table 10.2c.

Electricity Net Imports

1949 forward: Electricity net imports are equal to electricity imports from Table 1.4a minus electricity exports from Table 1.4b.

Total Primary Energy Consumption

1949 forward: Electric power sector total primary energy consumption is the sum of the electric power sector consumption values for fossil fuels, nuclear electric power, and renewable energy, plus electricity net imports.