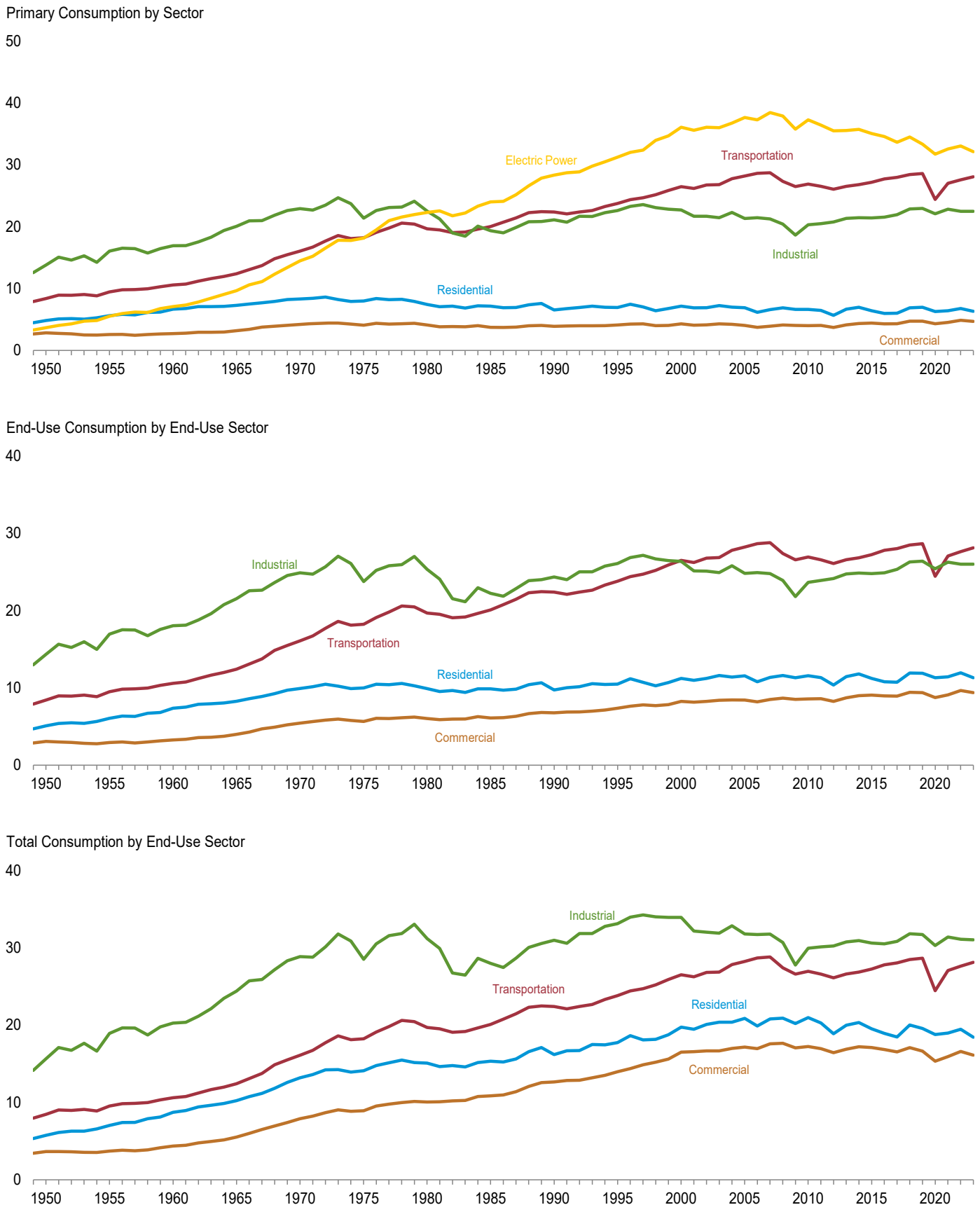
2. Energy Consumption By Sector

Figure 2.1a Energy Consumption by Sector, 1949–2023

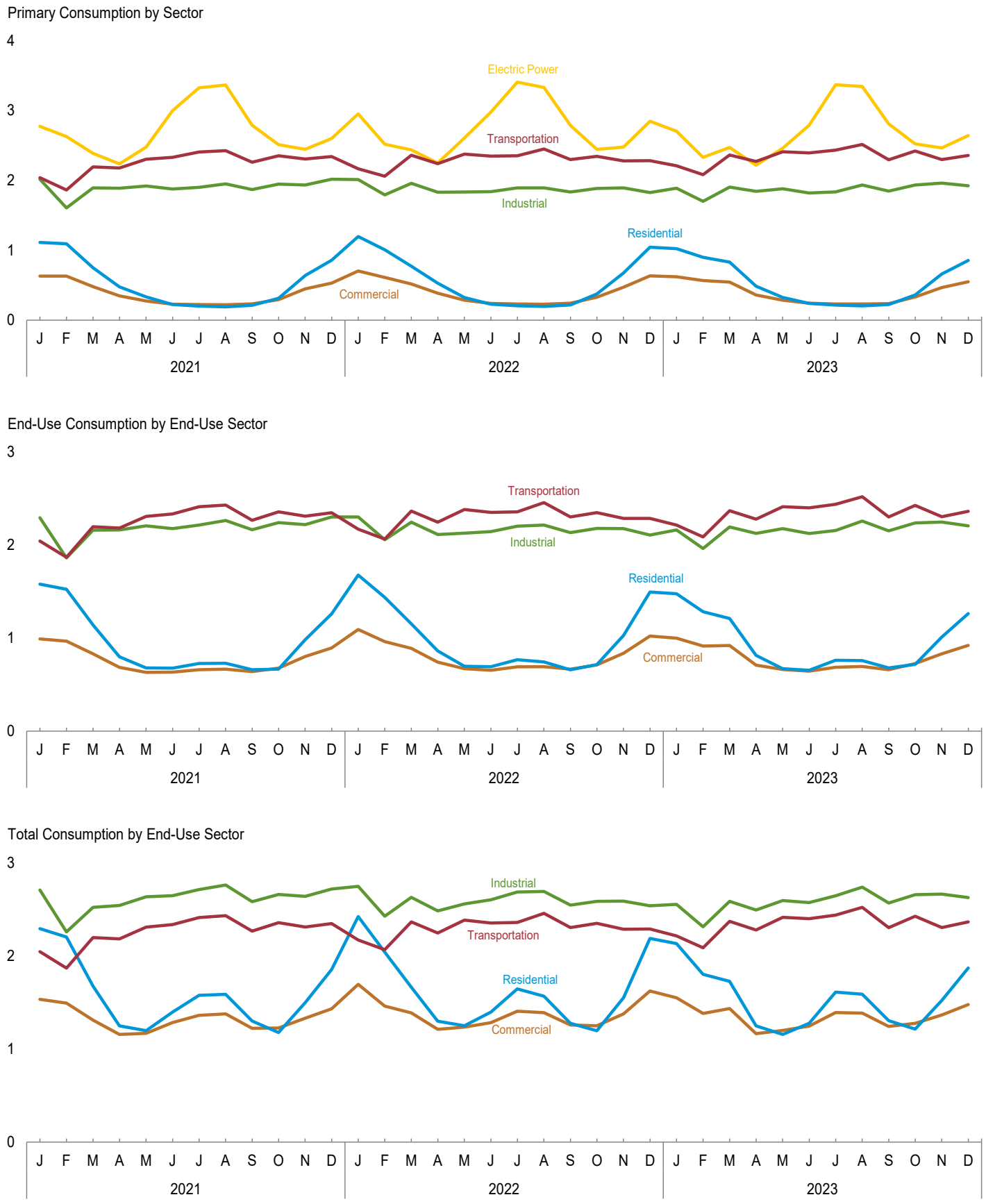
(Quadrillion Btu)



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)



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**
2006 Total	**6,154**	**4,611**	**10,765**	**9,119**	**19,884**	**3,745**	**4,435**	**8,180**	**8,769**	**16,949**	**21,436**	**3,451**	**24,886**	**6,823**	**31,710**
2007 Total	**6,588**	**4,750**	**11,338**	**9,472**	**20,811**	**3,920**	**4,560**	**8,479**	**9,092**	**17,571**	**21,273**	**3,507**	**24,780**	**6,993**	**31,773**
2008 Total	**6,887**	**4,711**	**11,598**	**9,296**	**20,894**	**4,096**	**4,559**	**8,655**	**8,996**	**17,651**	**20,443**	**3,444**	**23,888**	**6,797**	**30,685**
2009 Total	**6,634**	**4,657**	**11,291**	**8,918**	**20,208**	**4,050**	**4,459**	**8,509**	**8,540**	**17,049**	**18,657**	**3,130**	**21,787**	**5,995**	**27,782**
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**	**4,356**	**4,614**	**8,969**	**8,226**	**17,195**	**21,449**	**3,404**	**24,853**	**6,068**	**30,921**
2015 Total	**6,423**	**4,791**	**11,214**	**8,306**	**19,520**	**4,404**	**4,643**	**9,047**	**8,050**	**17,097**	**21,411**	**3,366**	**24,777**	**5,836**	**30,613**
2016 Total	**5,968**	**4,815**	**10,783**	**8,146**	**18,929**	**4,281**	**4,665**	**8,945**	**7,893**	**16,838**	**21,549**	**3,333**	**24,882**	**5,639**	**30,520**
2017 Total	**6,017**	**4,704**	**10,721**	**7,751**	**18,471**	**4,318**	**4,616**	**8,934**	**7,606**	**16,540**	**21,951**	**3,358**	**25,309**	**5,534**	**30,843**
2018 Total	**6,885**	**5,013**	**11,897**	**8,126**	**20,023**	**4,715**	**4,715**	**9,429**	**7,643**	**17,072**	**22,864**	**3,414**	**26,278**	**5,535**	**31,813**
2019 Total	**6,974**	**4,914**	**11,889**	**7,686**	**19,575**	**4,732**	**4,643**	**9,375**	**7,263**	**16,638**	**22,946**	**3,420**	**26,366**	**5,349**	**31,716**
2020 Total	**6,296**	**4,997**	**11,293**	**7,502**	**18,795**	**4,335**	**4,393**	**8,728**	**6,595**	**15,322**	**22,103**	**3,272**	**25,376**	**4,913**	**30,288**
2021 January	1,112	466	1,578	713	2,292	633	357	990	545	1,535	2,020	272	2,292	416	2,709
February	1,093	432	1,525	678	2,204	631	336	967	527	1,494	1,607	253	1,860	398	2,258
March	751	390	1,141	535	1,677	480	351	831	482	1,312	1,893	265	2,158	363	2,521
April	478	320	798	450	1,248	348	337	685	473	1,158	1,888	272	2,160	381	2,541
May	334	345	679	519	1,198	276	357	633	537	1,170	1,920	286	2,206	429	2,636
June	225	451	676	721	1,397	229	406	635	650	1,284	1,878	296	2,174	473	2,647
July	201	527	728	848	1,576	224	436	660	702	1,362	1,902	311	2,213	500	2,712
August	191	538	729	856	1,586	220	447	667	712	1,379	1,951	312	2,263	497	2,760
September	214	447	661	641	1,302	234	406	640	582	1,222	1,870	293	2,162	420	2,582
October	312	355	667	511	1,178	293	383	676	551	1,227	1,948	291	2,240	419	2,659
November	640	343	983	514	1,497	449	353	802	529	1,331	1,936	282	2,218	422	2,640
December	858	402	1,260	595	1,855	531	363	894	539	1,433	2,018	282	2,300	418	2,718
Total	**6,409**	**5,017**	**11,426**	**7,564**	**18,991**	**4,547**	**4,533**	**9,080**	**6,834**	**15,914**	**22,833**	**3,414**	**26,247**	**5,147**	**31,394**
2022 January	1,197	479	1,676	747	2,423	R 704	388	R 1,092	604	R 1,695	R 2,013	287	R 2,300	446	R 2,746
February	1,009	428	1,437	605	2,042	R 612	352	R 963	498	R 1,461	1,793	262	R 2,056	371	R 2,427
March	773	380	1,153	512	1,665	R 519	371	R 889	499	R 1,389	R 1,959	286	R 2,244	385	R 2,629
April	529	332	862	438	1,299	R 385	357	R 742	470	R 1,212	R 1,831	281	R 2,113	370	R 2,483
May	323	376	698	552	1,250	R 285	386	R 671	566	R 1,237	R 1,834	294	R 2,127	431	R 2,559
June	228	465	693	704	1,397	R 240	415	R 655	628	R 1,283	R 1,841	303	R 2,143	458	R 2,602
July	207	561	768	878	1,646	R 233	457	R 690	716	R 1,406	R 1,893	309	R 2,202	484	R 2,685
August	196	547	743	824	1,567	R 229	463	R 692	698	R 1,390	R 1,895	318	R 2,213	479	R 2,692
September	218	441	659	618	1,276	R 242	424	R 666	593	R 1,259	R 1,836	295	R 2,132	414	R 2,545
October	375	340	716	480	1,196	R 330	382	R 712	539	R 1,251	R 1,887	290	R 2,177	409	R 2,587
November	676	352	1,028	523	1,551	R 472	365	R 836	541	R 1,378	R 1,895	279	R 2,174	414	R 2,588
December	1,045	448	1,494	693	2,187	R 634	389	R 1,022	601	R 1,624	R 1,826	279	R 2,106	432	R 2,538
Total	**6,776**	**5,150**	**R 11,926**	**7,553**	**19,478**	**R 4,885**	**4,746**	**R 9,631**	**6,961**	**R 16,591**	**R 22,506**	**3,482**	**R 25,988**	**5,107**	**R 31,095**
2023 January	R 1,023	451	R 1,474	R 658	R 2,132	R 621	377	R 998	R 550	R 1,549	R 1,898	269	R 2,167	393	R 2,561
February	R 898	384	R 1,282	519	R 1,800	R 567	346	R 913	R 468	R 1,381	R 1,713	R 259	R 1,973	351	R 2,323
March	R 830	378	R 1,208	R 518	R 1,726	R 544	R 376	R 920	R 514	R 1,434	R 1,910	288	R 2,198	394	R 2,593
April	484	329	R 814	435	1,249	R 362	R 347	R 708	458	R 1,166	R 1,849	279	R 2,128	369	R 2,496
May	327	343	R 669	R 488	R 1,158	R 285	377	R 662	537	R 1,198	R 1,885	295	R 2,180	420	R 2,600
June	R 240	415	R 655	R 620	R 1,275	R 243	402	R 645	R 601	R 1,246	R 1,829	300	R 2,129	R 449	R 2,578
July	R 215	546	R 761	R 850	R 1,611	R 232	R 454	R 686	R 707	R 1,393	R 1,845	R 316	R 2,161	R 491	R 2,653
August	R 204	553	757	R 831	R 1,588	R 233	R 461	R 694	R 693	R 1,387	R 1,943	R 321	R 2,264	R 483	R 2,747
September	R 222	R 455	677	R 627	R 1,304	R 238	R 422	R 660	R 582	1,242	R 1,854	R 302	R 2,156	R 416	R 2,572
October	R 362	R 354	R 716	R 496	R 1,212	R 331	R 394	R 725	R 552	R 1,276	R 1,942	R 301	R 2,243	R 422	R 2,664
November	660	R 349	1,010	R 512	R 1,522	R 465	R 365	R 830	R 535	R 1,365	R 1,971	R 285	R 2,256	R 417	R 2,673
December	856	406	1,262	606	1,868	550	372	922	554	1,476	1,935	281	2,216	420	2,636
Total	**6,322**	**4,963**	**11,285**	**7,146**	**18,432**	**4,671**	**4,691**	**9,362**	**6,755**	**16,117**	**22,574**	**3,497**	**26,071**	**5,035**	**31,107**

[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]	
	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]	Primary Total[h]
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**	**4,736**	**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**
2006 Total	**28,618**	**25**	**28,643**	**50**	**28,693**	**59,953**	**12,522**	**72,474**	**24,761**	**97,235**	**37,283**	**97,235**
2007 Total	**28,727**	**28**	**28,755**	**56**	**28,811**	**60,508**	**12,845**	**73,353**	**25,613**	**98,966**	**38,458**	**98,965**
2008 Total	**27,339**	**26**	**27,366**	**52**	**27,417**	**58,765**	**12,740**	**71,505**	**25,141**	**96,646**	**37,881**	**96,647**
2009 Total	**26,510**	**27**	**26,536**	**51**	**26,587**	**55,851**	**12,272**	**68,123**	**23,503**	**91,626**	**35,775**	**91,626**
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**	**59,583**	**12,845**	**72,428**	**22,902**	**95,329**	**35,747**	**95,335**
2015 Total	**27,182**	**26**	**27,208**	**45**	**27,253**	**59,420**	**12,826**	**72,246**	**22,237**	**94,483**	**35,063**	**94,484**
2016 Total	**27,741**	**26**	**27,767**	**43**	**27,810**	**59,539**	**12,838**	**72,376**	**21,720**	**94,097**	**34,558**	**94,092**
2017 Total	**27,979**	**26**	**28,005**	**42**	**28,047**	**60,265**	**12,704**	**72,969**	**20,932**	**93,901**	**33,636**	**93,902**
2018 Total	**28,435**	**26**	**28,461**	**42**	**28,504**	**62,898**	**13,168**	**76,066**	**21,346**	**97,412**	**34,514**	**97,405**
2019 Total	**28,602**	**26**	**28,628**	**41**	**28,669**	**63,255**	**13,004**	**76,259**	**20,339**	**96,598**	**33,343**	**96,603**
2020 Total	**24,394**	**22**	**24,417**	**34**	**24,450**	**57,128**	**12,685**	**69,813**	**19,043**	**88,856**	**31,728**	**88,852**
2021 January	2,040	2	2,042	3	2,045	5,806	1,097	6,903	1,678	8,581	2,775	8,579
February	1,865	2	1,867	3	1,869	5,196	1,023	6,219	1,607	7,825	2,629	7,827
March	2,194	2	2,196	3	2,198	5,318	1,008	6,325	1,382	7,708	2,390	7,703
April	2,179	2	2,181	2	2,183	4,893	931	5,824	1,306	7,130	2,237	7,124
May	2,305	2	2,307	2	2,309	4,835	990	5,825	1,488	7,313	2,478	7,310
June	2,332	2	2,334	3	2,337	4,665	1,155	5,819	1,846	7,666	3,001	7,669
July	2,408	2	2,410	3	2,413	4,736	1,276	6,011	2,052	8,063	3,328	8,070
August	2,427	2	2,428	3	2,432	4,788	1,300	6,088	2,068	8,156	3,368	8,163
September	2,262	2	2,264	3	2,267	4,580	1,148	5,728	1,645	7,373	2,793	7,375
October	2,353	2	2,355	3	2,357	4,907	1,031	5,938	1,483	7,421	2,514	7,419
November	2,307	2	2,308	3	2,311	5,332	980	6,311	1,467	7,778	2,447	7,774
December	2,343	2	2,345	3	2,348	5,750	1,049	6,799	1,554	8,354	2,603	8,349
Total	**27,015**	**22**	**27,037**	**33**	**27,070**	**60,804**	**12,986**	**73,790**	**19,578**	**93,368**	**32,564**	**93,363**
2022 January	R 2,166	2	R 2,168	3	R 2,171	6,080	1,155	7,235	1,800	9,035	2,955	9,036
February	R 2,062	2	R 2,064	3	R 2,067	5,476	1,044	6,520	1,477	7,996	2,520	7,995
March	R 2,361	2	R 2,363	3	R 2,366	5,612	1,038	6,650	1,399	8,049	2,437	8,044
April	R 2,241	2	R 2,243	2	R 2,245	4,987	972	5,960	1,280	7,239	2,252	7,235
May	R 2,379	2	R 2,380	3	R 2,383	4,820	1,057	5,877	1,552	7,429	2,609	7,427
June	R 2,348	2	R 2,350	3	R 2,353	4,658	1,184	5,842	1,793	7,635	2,977	7,637
July	R 2,354	2	R 2,356	3	R 2,359	4,688	1,328	6,016	2,081	8,097	3,409	8,103
August	R 2,452	2	R 2,454	3	R 2,457	4,773	1,329	6,102	2,003	8,105	3,333	8,111
September	R 2,299	2	R 2,301	3	R 2,304	4,596	1,162	5,758	1,627	7,385	2,789	7,386
October	R 2,345	2	R 2,347	3	R 2,350	4,938	1,014	5,952	1,431	7,383	2,445	7,380
November	R 2,282	2	R 2,284	3	R 2,287	5,325	997	6,323	1,480	7,803	2,478	7,800
December	R 2,283	2	R 2,285	3	R 2,289	5,789	1,118	6,907	1,730	8,637	2,848	8,636
Total	**R 27,574**	**23**	**R 27,596**	**33**	**R 27,629**	**61,741**	**13,400**	**75,140**	**19,653**	**94,794**	**33,053**	**94,791**
2023 January	R 2,206	2	R 2,208	3	R 2,211	R 5,749	1,099	R 6,848	R 1,605	R 8,452	R 2,704	R 8,449
February	R 2,075	2	R 2,077	3	R 2,080	R 5,254	991	R 6,245	R 1,340	R 7,585	2,331	R 7,579
March	R 2,362	2	R 2,364	3	R 2,367	R 5,646	R 1,044	R 6,690	R 1,429	R 8,119	R 2,472	R 8,113
April	R 2,272	2	R 2,274	2	R 2,276	R 4,967	R 957	R 5,924	1,264	R 7,187	2,220	R 7,182
May	R 2,405	2	R 2,407	3	R 2,410	R 4,902	1,016	R 5,918	R 1,447	R 7,366	R 2,463	R 7,362
June	R 2,389	2	R 2,391	3	R 2,394	R 4,701	1,119	R 5,820	R 1,673	R 7,493	R 2,792	R 7,493
July	R 2,427	2	R 2,429	3	R 2,432	R 4,719	R 1,319	R 6,038	R 2,051	R 8,089	R 3,370	R 8,094
August	R 2,509	2	R 2,511	3	R 2,514	R 4,888	R 1,337	R 6,225	R 2,010	R 8,235	3,347	R 8,240
September	R 2,294	2	R 2,296	3	R 2,299	R 4,608	R 1,181	R 5,789	R 1,629	R 7,418	R 2,810	R 7,418
October	R 2,417	2	R 2,419	3	R 2,422	R 5,052	R 1,050	R 6,103	R 1,472	R 7,575	R 2,523	R 7,571
November	R 2,292	2	R 2,294	3	R 2,297	R 5,388	R 1,001	R 6,390	R 1,467	R 7,857	R 2,468	7,853
December	2,351	2	2,353	3	2,356	5,692	1,061	6,753	1,583	8,336	2,644	8,333
Total	**28,001**	**23**	**28,024**	**33**	**28,057**	**61,568**	**13,175**	**74,743**	**18,970**	**93,713**	**32,145**	**93,686**

[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.

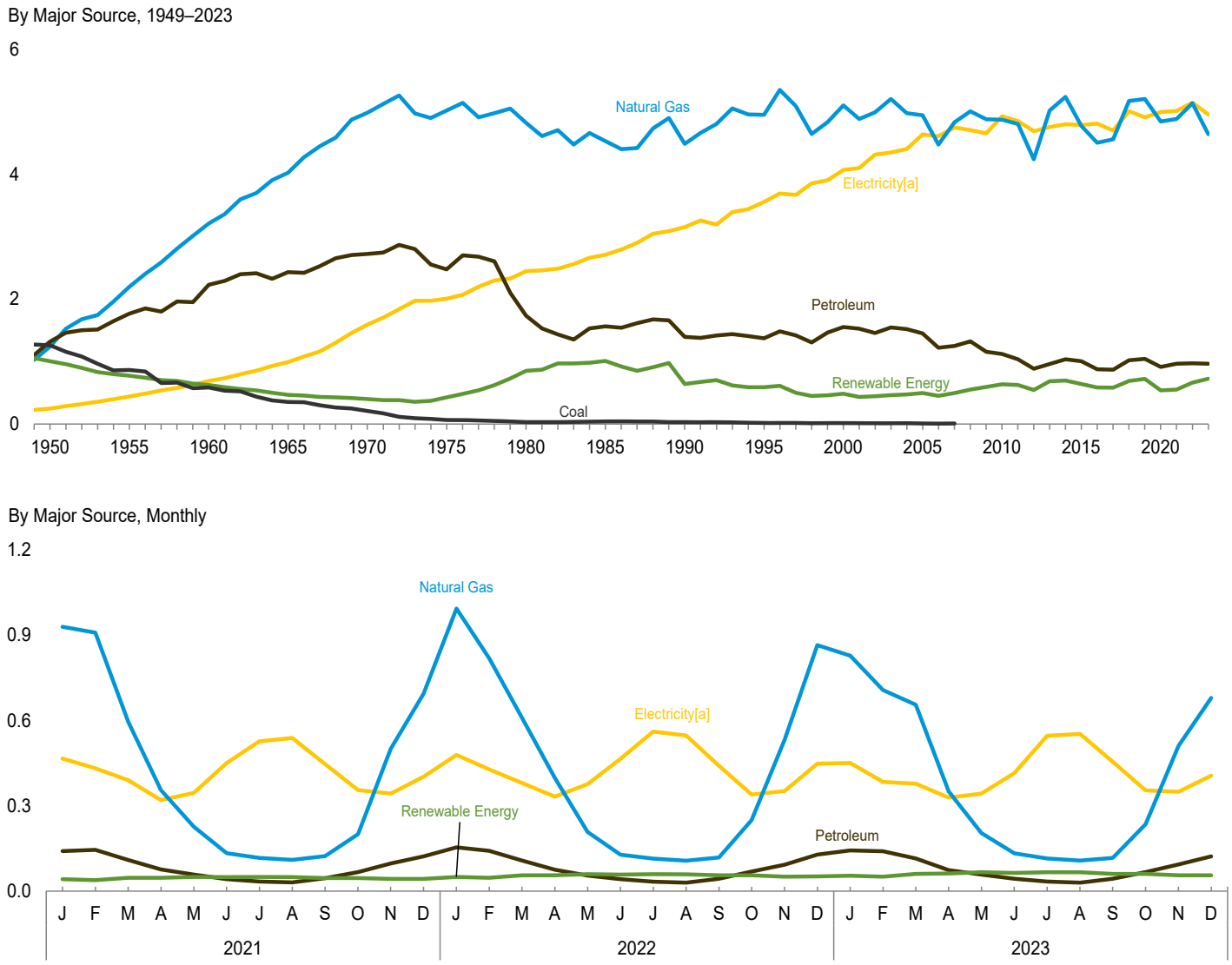
Notes: • Data are estimates, except for the electric power sector. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 2, "Other Energy Losses," at end of section. • See Note 3, "Energy Consumption Data and Surveys," at end of section. • Totals may 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)



[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]												
	Primary Consumption[b]												
	Fossil Fuels				Renewable Energy[c]								
	Coal	Natural Gas[d]	Petro-leum	Total	Geo-thermal	Solar[e]	Bio-mass	Total	Total Primary	Elec-tricity[f]	Total End Use	Electrical System Energy Losses[g]	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**
2006 Total	**6**	**4,476**	**1,222**	**5,704**	**18**	**51**	**380**	**450**	**6,154**	**4,611**	**10,765**	**9,119**	**19,884**
2007 Total	**8**	**4,835**	**1,249**	**6,092**	**22**	**53**	**420**	**495**	**6,588**	**4,750**	**11,338**	**9,472**	**20,811**
2008 Total	**NA**	**5,010**	**1,325**	**6,335**	**26**	**56**	**470**	**552**	**6,887**	**4,711**	**11,598**	**9,296**	**20,894**
2009 Total	**NA**	**4,883**	**1,158**	**6,041**	**33**	**56**	**504**	**593**	**6,634**	**4,657**	**11,291**	**8,918**	**20,208**
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**	**7,502**	**18,795**
2021 January	NA	929	141	1,070	3	9	29	42	1,112	466	1,578	713	2,292
February	NA	909	145	1,054	3	10	26	39	1,093	432	1,525	678	2,204
March	NA	595	109	704	3	14	29	47	751	390	1,141	535	1,677
April	NA	355	76	430	3	16	28	47	478	320	798	450	1,248
May	NA	226	58	284	3	17	29	50	334	345	679	519	1,198
June	NA	134	42	176	3	18	28	49	225	451	676	721	1,397
July	NA	117	34	151	3	18	29	50	201	527	728	848	1,576
August	NA	110	31	142	3	17	29	49	191	538	729	856	1,586
September	NA	123	45	167	3	15	28	46	214	447	661	641	1,302
October	NA	200	67	267	3	13	29	46	312	355	667	511	1,178
November	NA	500	97	597	3	11	28	43	640	343	983	514	1,497
December	NA	694	122	815	3	10	29	43	858	402	1,260	595	1,855
Total	**NA**	**4,889**	**967**	**5,856**	**40**	**169**	**344**	**553**	**6,409**	**5,017**	**11,426**	**7,564**	**18,991**
2022 January	NA	993	154	R 1,147	3	11	36	50	1,197	479	1,676	747	2,423
February	NA	819	142	961	3	12	32	47	1,009	428	1,437	605	2,042
March	NA	609	108	717	3	17	36	56	773	380	1,153	512	1,665
April	NA	398	75	473	3	18	35	56	529	332	862	438	1,299
May	NA	208	55	263	3	20	36	60	323	376	698	552	1,250
June	NA	128	42	170	3	20	35	58	228	465	693	704	1,397
July	NA	114	33	147	3	21	36	60	207	561	768	878	1,646
August	NA	107	30	137	3	20	36	59	196	547	743	824	1,567
September	NA	118	44	162	3	18	35	56	218	441	659	618	1,276
October	NA	250	69	319	3	17	36	56	375	340	716	480	1,196
November	NA	532	93	625	3	13	35	51	676	352	1,028	523	1,551
December	NA	865	129	994	3	12	36	52	1,045	448	1,494	693	2,187
Total	**NA**	**5,140**	**974**	**6,114**	**40**	**200**	**422**	**662**	**6,776**	**5,150**	**R 11,926**	**7,553**	**19,478**
2023 January	NA	828	R 141	R 969	3	13	38	54	R 1,023	451	R 1,474	R 658	R 2,132
February	NA	707	R 139	R 846	3	14	35	51	R 898	384	R 1,282	519	R 1,800
March	NA	655	R 114	R 769	3	19	38	61	R 830	378	R 1,208	R 518	R 1,726
April	NA	350	73	R 423	3	21	37	62	484	329	R 814	435	1,249
May	NA	204	R 57	261	3	24	38	66	327	343	R 669	R 488	R 1,158
June	NA	133	R 43	R 176	3	24	37	64	R 240	415	R 655	R 620	R 1,275
July	NA	115	R 34	R 149	3	R 25	38	66	R 215	546	R 761	R 850	R 1,611
August	NA	108	R 30	R 138	3	24	38	66	R 204	553	757	R 831	R 1,588
September	NA	117	R 43	R 161	3	21	37	61	R 222	R 455	677	R 627	R 1,304
October	NA	R 235	66	R 301	3	20	38	61	R 362	R 354	R 716	R 496	R 1,212
November	NA	511	R 93	R 604	3	16	37	56	660	R 349	1,010	R 512	R 1,522
December	NA	679	121	800	3	15	38	56	856	406	1,262	606	1,868
Total	**NA**	**4,643**	**955**	**5,597**	**40**	**235**	**450**	**725**	**6,322**	**4,963**	**11,285**	**7,146**	**18,432**

[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.

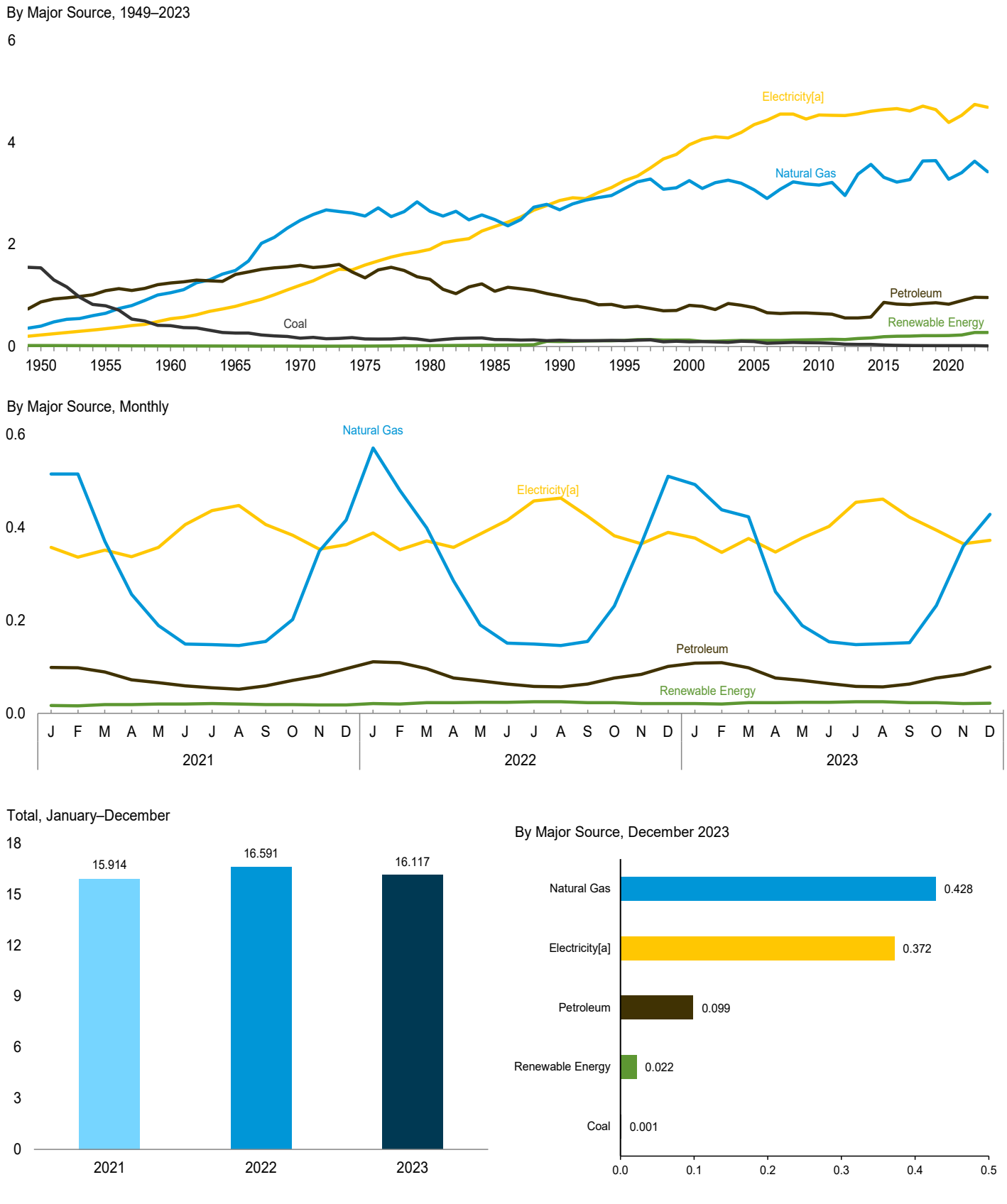
Notes: • Data are estimates, except for electricity sales to ultimate customers. • See Note 2, "Other Energy Losses," at end of section. • See Note 3, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage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



[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]														
	Primary Consumption[b]														
	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	Total Primary	Elec-tricity[h]	Total End Use	Electrical System Energy Losses[i]	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
2006 Total	65	2,902	661	3,627	(s)	14	1	–	103	118	3,745	4,435	8,180	8,769	16,949
2007 Total	70	3,085	646	3,801	(s)	14	1	–	103	119	3,920	4,560	8,479	9,092	17,571
2008 Total	81	3,228	660	3,970	(s)	15	2	–	109	126	4,096	4,559	8,655	8,996	17,651
2009 Total	73	3,187	659	3,919	(s)	17	3	(s)	112	131	4,050	4,459	8,509	8,540	17,049
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)	127	166	4,356	4,614	8,969	8,226	17,195
2015 Total	31	3,316	864	4,211	(s)	20	21	(s)	152	193	4,404	4,643	9,047	8,050	17,097
2016 Total	24	3,224	832	4,079	1	20	23	(s)	158	201	4,281	4,665	8,945	7,893	16,838
2017 Total	21	3,273	820	4,113	1	20	28	(s)	156	205	4,318	4,616	8,934	7,606	16,540
2018 Total	19	3,638	845	4,502	1	20	35	1	156	213	4,715	4,715	9,429	7,643	17,072
2019 Total	17	3,647	857	4,521	1	21	40	1	149	211	4,732	4,643	9,375	7,263	16,638
2020 Total	15	3,279	827	4,120	1	21	46	1	147	215	4,335	4,393	8,728	6,595	15,322
2021 January	2	515	99	616	(s)	2	3	(s)	12	17	633	357	990	545	1,535
February	2	515	98	615	(s)	2	3	(s)	11	16	631	336	967	527	1,494
March	1	370	89	461	(s)	2	5	(s)	13	19	480	351	831	482	1,312
April	1	256	72	329	(s)	2	5	(s)	12	19	348	337	685	473	1,158
May	1	189	66	256	(s)	2	5	(s)	12	20	276	357	633	537	1,170
June	1	149	59	209	(s)	2	6	(s)	12	20	229	406	635	650	1,284
July	1	148	55	203	(s)	2	6	(s)	13	21	224	436	660	702	1,362
August	1	146	52	199	(s)	2	5	(s)	13	20	220	447	667	712	1,379
September	1	155	59	215	(s)	2	5	(s)	12	19	234	406	640	582	1,222
October	1	202	71	275	(s)	2	4	(s)	13	19	293	383	676	551	1,227
November	1	349	81	431	(s)	2	3	(s)	12	18	449	353	802	529	1,331
December	1	416	96	513	(s)	2	3	(s)	13	18	531	363	894	539	1,433
Total	15	3,409	898	4,322	1	21	54	1	149	225	4,547	4,533	9,080	6,834	15,914
2022 January	2	571	R 111	R 683	(s)	2	4	(s)	R 16	21	R 704	388	R 1,092	604	R 1,695
February	2	480	R 109	R 592	(s)	2	4	(s)	R 15	20	R 612	352	R 963	498	R 1,461
March	1	399	R 96	R 496	(s)	2	5	(s)	R 16	23	R 519	371	R 889	499	R 1,389
April	1	285	R 76	R 362	(s)	2	6	(s)	15	23	R 385	357	R 742	470	R 1,212
May	1	190	R 70	R 261	(s)	2	6	(s)	16	24	R 285	386	R 671	566	R 1,237
June	1	151	R 63	R 216	(s)	2	6	(s)	16	24	R 240	415	R 655	628	R 1,283
July	1	149	R 58	R 208	(s)	2	7	(s)	16	R 25	R 233	457	R 690	716	R 1,406
August	1	146	R 57	R 205	(s)	2	6	(s)	16	R 25	R 229	463	R 692	698	R 1,390
September	1	155	R 63	R 219	(s)	2	6	(s)	15	23	R 242	424	R 666	593	R 1,259
October	1	231	R 76	R 308	(s)	2	5	(s)	16	R 23	R 330	382	R 712	539	R 1,251
November	1	365	R 84	R 450	(s)	2	4	(s)	R 16	21	R 472	365	R 836	541	R 1,378
December	2	510	R 101	R 613	(s)	2	4	(s)	R 16	21	R 634	389	R 1,022	601	R 1,624
Total	14	3,633	R 964	R 4,611	1	20	63	1	R 190	R 274	R 4,885	4,746	R 9,631	6,961	R 16,591
2023 January	1	492	R 107	R 600	(s)	2	4	(s)	R 16	21	R 621	377	R 998	R 550	R 1,549
February	1	438	R 108	R 547	(s)	2	4	(s)	14	20	R 567	346	R 913	R 468	R 1,381
March	1	423	R 97	R 521	NM	2	6	(s)	15	23	R 544	R 376	R 920	R 514	R 1,434
April	1	262	R 76	R 339	NM	2	6	(s)	R 15	23	R 362	R 347	R 708	458	R 1,166
May	1	189	R 70	R 261	NM	2	7	(s)	15	24	R 285	377	R 662	537	R 1,198
June	1	154	R 64	R 219	NM	2	7	(s)	15	24	R 243	402	R 645	R 601	R 1,246
July	1	148	R 58	R 207	NM	2	7	(s)	R 16	25	R 232	R 454	R 686	R 707	R 1,393
August	1	150	R 57	R 208	NM	2	7	(s)	16	R 25	R 233	R 461	R 694	R 693	R 1,387
September	1	152	R 62	R 215	NM	2	6	(s)	15	23	R 238	R 422	R 660	R 582	1,242
October	1	232	R 75	R 308	NM	2	5	(s)	R 16	R 23	R 331	R 394	R 725	R 552	R 1,276
November	1	359	R 83	R 444	(s)	2	4	(s)	15	21	R 465	R 365	R 830	R 535	R 1,365
December	1	428	99	528	NM	2	4	(s)	16	22	550	372	922	554	1,476
Total	13	3,428	956	4,396	1	20	69	1	185	275	4,671	4,691	9,362	6,755	16,117

[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.

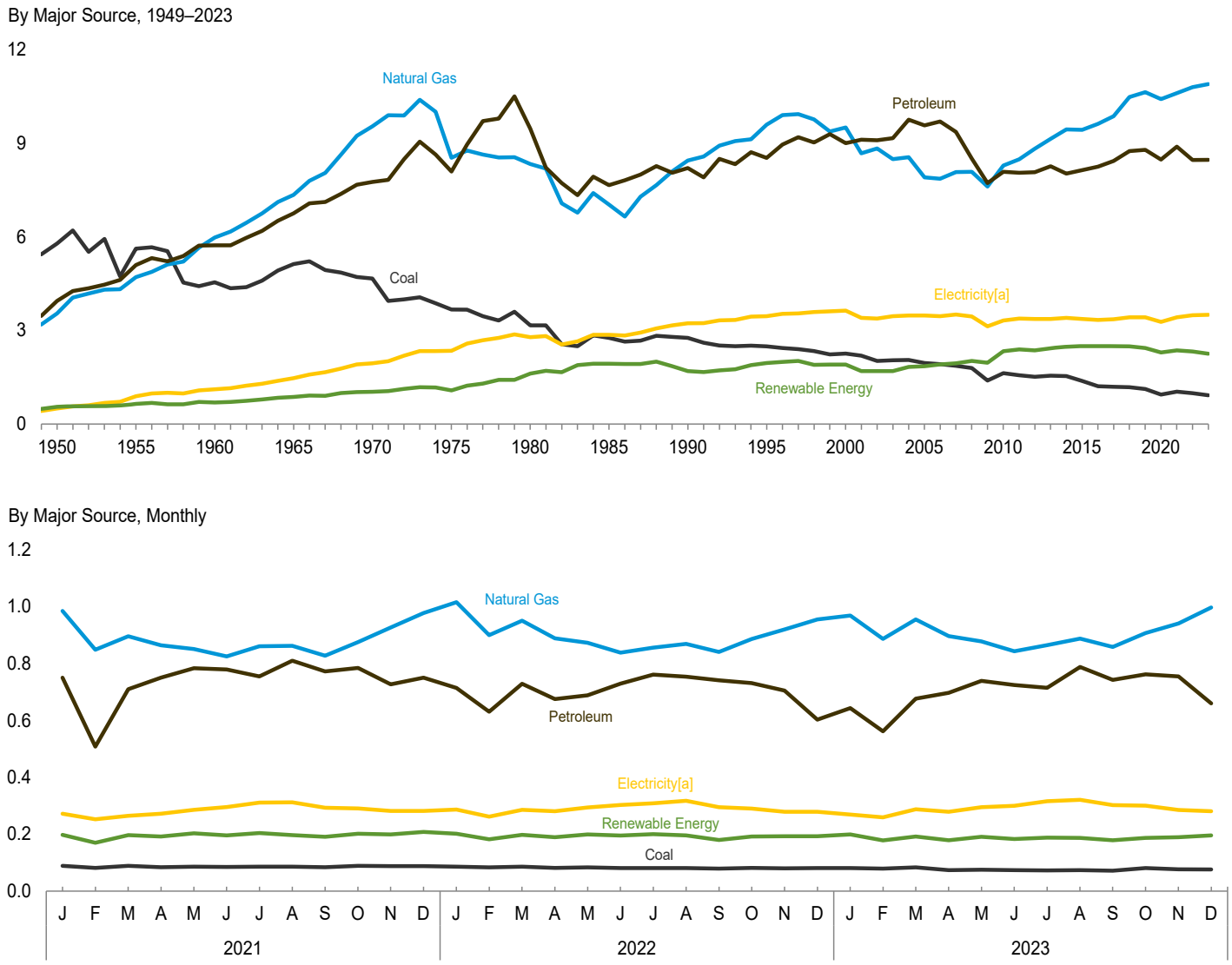
Notes: • Data are estimates, except for coal totals beginning in 2008; hydroelectric power; solar; wind; and electricity sales to ultimate customers beginning in 1979. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note 2, "Classification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



[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]														
	Primary Consumption[b]														
	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	Total Primary	Elec-tricity[j]	Total End Use	Electrical System Energy Losses[k]	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**
2006 Total	**1,914**	**7,861**	**9,693**	**19,529**	**10**	**4**	**(s)**	**–**	**1,892**	**1,906**	**21,436**	**3,451**	**24,886**	**6,823**	**31,710**
2007 Total	**1,865**	**8,074**	**9,363**	**19,326**	**5**	**5**	**(s)**	**–**	**1,937**	**1,947**	**21,273**	**3,507**	**24,780**	**6,993**	**31,773**
2008 Total	**1,793**	**8,083**	**8,502**	**18,420**	**6**	**5**	**(s)**	**–**	**2,012**	**2,023**	**20,443**	**3,444**	**23,888**	**6,797**	**30,685**
2009 Total	**1,392**	**7,609**	**7,720**	**16,698**	**6**	**4**	**1**	**–**	**1,948**	**1,959**	**18,657**	**3,130**	**21,787**	**5,995**	**27,782**
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**	**10,410**	**8,476**	**19,811**	**3**	**4**	**12**	**2**	**2,270**	**2,292**	**22,103**	**3,272**	**25,376**	**4,913**	**30,288**
2021 January	89	985	751	1,822	(s)	(s)	1	(s)	197	198	2,020	272	2,292	416	2,709
February	82	849	508	1,437	(s)	(s)	1	(s)	168	170	1,607	253	1,860	398	2,258
March	89	896	710	1,696	(s)	(s)	1	(s)	195	197	1,893	265	2,158	363	2,521
April	84	864	751	1,696	(s)	(s)	1	(s)	191	192	1,888	272	2,160	381	2,541
May	86	851	784	1,717	(s)	(s)	1	(s)	201	203	1,920	286	2,206	429	2,636
June	85	825	779	1,683	(s)	(s)	1	(s)	194	196	1,878	296	2,174	473	2,647
July	86	861	755	1,698	(s)	(s)	1	(s)	202	204	1,902	311	2,213	500	2,712
August	86	863	810	1,753	(s)	(s)	1	(s)	195	197	1,951	312	2,263	497	2,760
September	84	828	773	1,679	(s)	(s)	1	(s)	189	191	1,870	293	2,162	420	2,582
October	89	876	785	1,746	(s)	(s)	1	(s)	200	202	1,948	291	2,240	419	2,659
November	88	927	727	1,738	(s)	(s)	1	(s)	197	199	1,936	282	2,218	422	2,640
December	88	978	751	1,810	(s)	(s)	1	(s)	207	208	2,018	282	2,300	418	2,718
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	1,016	R 714	R 1,811	(s)	(s)	1	(s)	201	202	R 2,013	287	R 2,300	446	R 2,746
February	83	900	R 631	R 1,612	(s)	(s)	1	(s)	180	182	1,793	262	R 2,056	371	R 2,427
March	86	951	R 729	R 1,761	(s)	(s)	1	(s)	196	198	R 1,959	286	R 2,244	385	R 2,629
April	82	889	R 675	R 1,642	(s)	(s)	1	(s)	188	190	R 1,831	281	R 2,113	370	R 2,483
May	83	873	R 688	R 1,635	(s)	(s)	2	(s)	196	199	R 1,834	294	R 2,127	431	R 2,559
June	81	838	R 730	R 1,646	(s)	(s)	2	(s)	193	195	R 1,841	303	R 2,143	458	R 2,602
July	81	856	R 761	R 1,694	(s)	(s)	2	(s)	R 198	200	R 1,893	309	R 2,202	484	R 2,685
August	81	869	R 754	R 1,699	(s)	(s)	2	(s)	194	196	R 1,895	318	R 2,213	479	R 2,692
September	79	841	R 741	R 1,656	(s)	(s)	1	(s)	178	180	R 1,836	295	R 2,132	414	R 2,545
October	82	886	R 731	R 1,695	(s)	(s)	1	(s)	190	192	R 1,887	290	R 2,177	409	R 2,587
November	80	920	R 705	R 1,702	(s)	(s)	1	(s)	192	193	R 1,895	279	R 2,174	414	R 2,588
December	81	955	R 603	1,633	(s)	(s)	1	(s)	191	193	R 1,826	279	R 2,106	432	R 2,538
Total	**987**	**10,793**	**R 8,462**	**R 20,186**	**3**	**4**	**15**	**(s)**	**R 2,297**	**R 2,320**	**R 22,506**	**3,482**	**R 25,988**	**5,107**	**R 31,095**
2023 January	81	969	R 652	R 1,699	(s)	(s)	1	(s)	197	199	R 1,898	269	R 2,167	393	R 2,561
February	79	887	R 572	R 1,536	(s)	(s)	1	(s)	176	178	R 1,713	R 259	R 1,973	351	R 2,323
March	83	955	R 683	R 1,719	(s)	(s)	1	(s)	190	192	R 1,910	288	R 2,198	394	R 2,593
April	74	897	R 700	R 1,670	(s)	(s)	2	(s)	177	179	R 1,849	279	R 2,128	369	R 2,496
May	75	878	R 744	R 1,694	(s)	(s)	2	(s)	189	191	R 1,885	295	R 2,180	420	R 2,600
June	74	843	R 731	R 1,646	(s)	(s)	2	(s)	181	183	R 1,829	300	R 2,129	R 449	R 2,578
July	73	865	R 722	R 1,657	(s)	(s)	2	(s)	186	188	R 1,845	R 316	R 2,161	R 491	R 2,653
August	74	888	R 796	R 1,755	(s)	(s)	2	(s)	185	187	R 1,943	R 321	R 2,264	R 483	R 2,747
September	72	859	R 747	R 1,675	(s)	(s)	1	(s)	177	179	R 1,854	R 302	R 2,156	R 416	R 2,572
October	81	R 907	R 768	R 1,755	(s)	(s)	1	(s)	185	187	R 1,942	R 301	R 2,243	R 422	R 2,664
November	77	R 941	R 764	R 1,781	(s)	(s)	1	(s)	188	190	R 1,971	R 285	R 2,256	R 417	R 2,673
December	76	997	671	1,739	(s)	(s)	1	(s)	195	196	1,935	281	2,216	420	2,636
Total	**919**	**10,888**	**8,550**	**20,325**	**3**	**4**	**16**	**(s)**	**2,225**	**2,249**	**22,574**	**3,497**	**26,071**	**5,035**	**31,107**

[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.

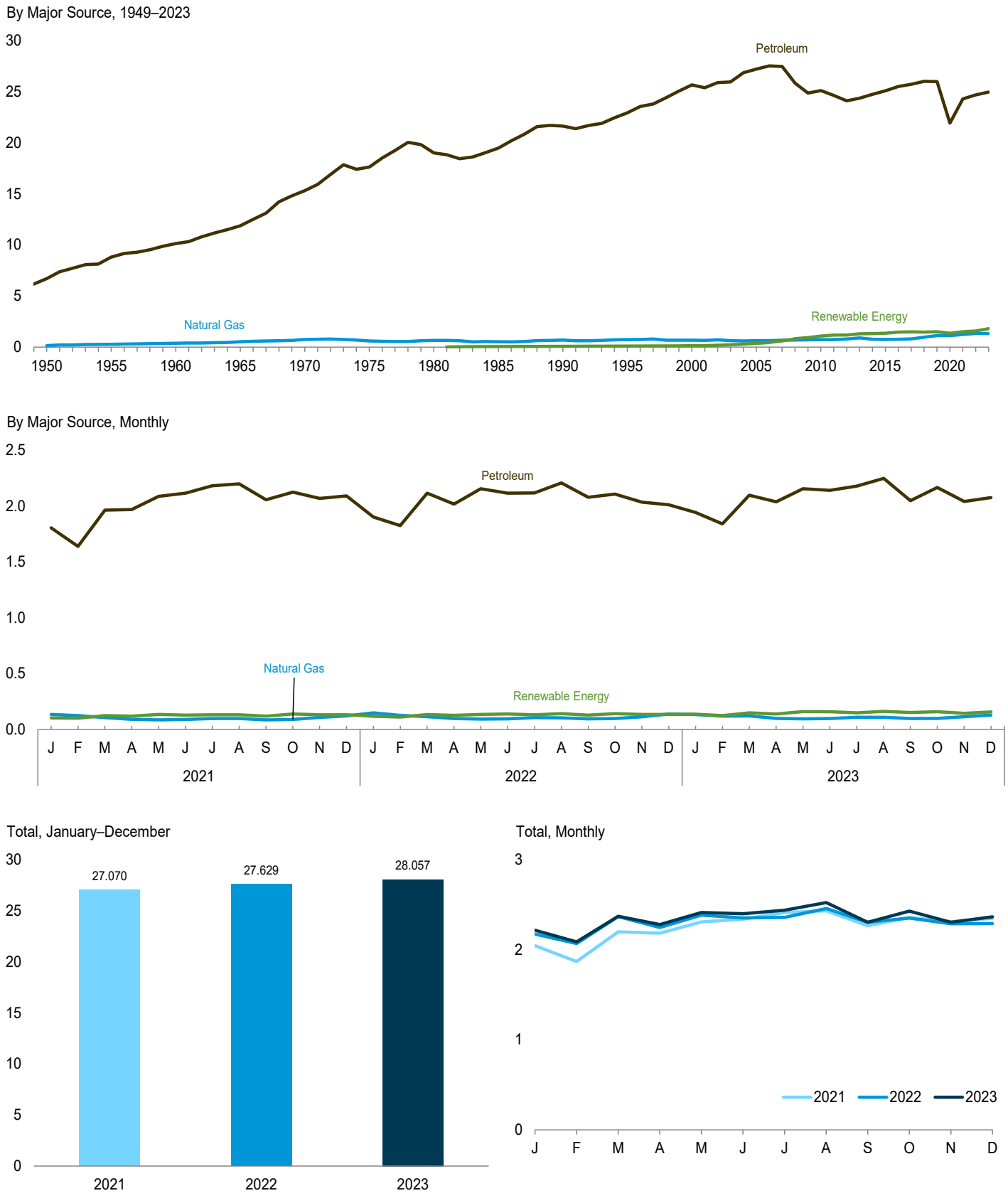
R=Revised. NA=Not available. – =No data reported. (s)=Less than 0.5 trillion Btu.

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)



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]									
	Primary Consumption[b]									
	Fossil Fuels				Renewable Energy[c]				Electrical System Energy Losses[g]	
	Coal	Natural Gas[d]	Petroleum[e]	Total	Biomass	Total Primary	Electricity[f]	Total End Use		Total
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
2006 Total	(h)	625	27,518	28,143	475	28,618	25	28,643	50	28,693
2007 Total	(h)	663	27,462	28,126	602	28,727	28	28,755	56	28,811
2008 Total	(h)	692	25,823	26,515	825	27,339	26	27,366	52	27,417
2009 Total	(h)	715	24,860	25,575	935	26,510	27	26,536	51	26,587
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)	1,109	21,930	23,039	1,355	24,394	22	24,417	34	24,450
2021 January	(h)	135	1,804	1,938	102	2,040	2	2,042	3	2,045
February	(h)	125	1,638	1,764	101	1,865	2	1,867	3	1,869
March	(h)	106	1,962	2,068	125	2,194	2	2,196	3	2,198
April	(h)	91	1,968	2,059	120	2,179	2	2,181	2	2,183
May	(h)	85	2,086	2,171	134	2,305	2	2,307	2	2,309
June	(h)	90	2,114	2,204	128	2,332	2	2,334	3	2,337
July	(h)	97	2,181	2,278	131	2,408	2	2,410	3	2,413
August	(h)	98	2,197	2,295	132	2,427	2	2,428	3	2,432
September	(h)	86	2,056	2,142	120	2,262	2	2,264	3	2,267
October	(h)	90	2,124	2,214	139	2,353	2	2,355	3	2,357
November	(h)	108	2,067	2,175	132	2,307	2	2,308	3	2,311
December	(h)	121	2,090	2,211	132	2,343	2	2,345	3	2,348
Total	(h)	1,232	24,287	25,519	1,496	27,015	22	27,037	33	27,070
2022 January	(h)	148	R 1,900	R 2,048	118	R 2,166	2	R 2,168	3	R 2,171
February	(h)	126	R 1,825	R 1,951	R 111	R 2,062	2	R 2,064	3	R 2,067
March	(h)	114	R 2,114	R 2,228	133	R 2,361	2	R 2,363	3	R 2,366
April	(h)	97	R 2,017	R 2,114	R 127	R 2,241	2	R 2,243	2	R 2,245
May	(h)	92	R 2,153	R 2,245	R 134	R 2,379	2	R 2,380	3	R 2,383
June	(h)	95	R 2,114	R 2,209	R 139	R 2,348	2	R 2,350	3	R 2,353
July	(h)	106	R 2,117	R 2,223	132	R 2,354	2	R 2,356	3	R 2,359
August	(h)	105	R 2,206	R 2,311	141	R 2,452	2	R 2,454	3	R 2,457
September	(h)	94	R 2,078	R 2,171	R 128	R 2,299	2	R 2,301	3	R 2,304
October	(h)	97	R 2,107	R 2,204	142	R 2,345	2	R 2,347	3	R 2,350
November	(h)	113	R 2,034	R 2,147	135	R 2,282	2	R 2,284	3	R 2,287
December	(h)	139	R 2,010	R 2,149	R 134	R 2,283	2	R 2,285	3	R 2,289
Total	(h)	1,326	R 24,675	R 26,001	R 1,573	R 27,574	23	R 27,596	33	R 27,629
2023 January	(h)	133	R 1,935	R 2,069	R 137	R 2,206	2	R 2,208	3	R 2,211
February	(h)	119	R 1,832	R 1,951	R 124	R 2,075	2	R 2,077	3	R 2,080
March	(h)	122	R 2,092	R 2,214	R 148	R 2,362	2	R 2,364	3	R 2,367
April	(h)	99	R 2,035	R 2,134	R 138	R 2,272	2	R 2,274	2	R 2,276
May	(h)	95	R 2,149	R 2,244	R 161	R 2,405	2	R 2,407	3	R 2,410
June	(h)	R 97	R 2,134	R 2,231	R 158	R 2,389	2	R 2,391	3	R 2,394
July	(h)	109	R 2,170	R 2,279	R 148	R 2,427	2	R 2,429	3	R 2,432
August	(h)	109	R 2,238	R 2,347	162	R 2,509	2	R 2,511	3	R 2,514
September	(h)	97	R 2,045	R 2,142	R 152	R 2,294	2	R 2,296	3	R 2,299
October	(h)	100	R 2,160	R 2,260	158	R 2,417	2	R 2,419	3	R 2,422
November	(h)	115	R 2,033	R 2,147	145	R 2,292	2	R 2,294	3	R 2,297
December	(h)	128	2,067	2,195	156	2,351	2	2,353	3	2,356
Total	(h)	1,322	24,890	26,212	1,788	28,001	23	28,024	33	28,057

[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.

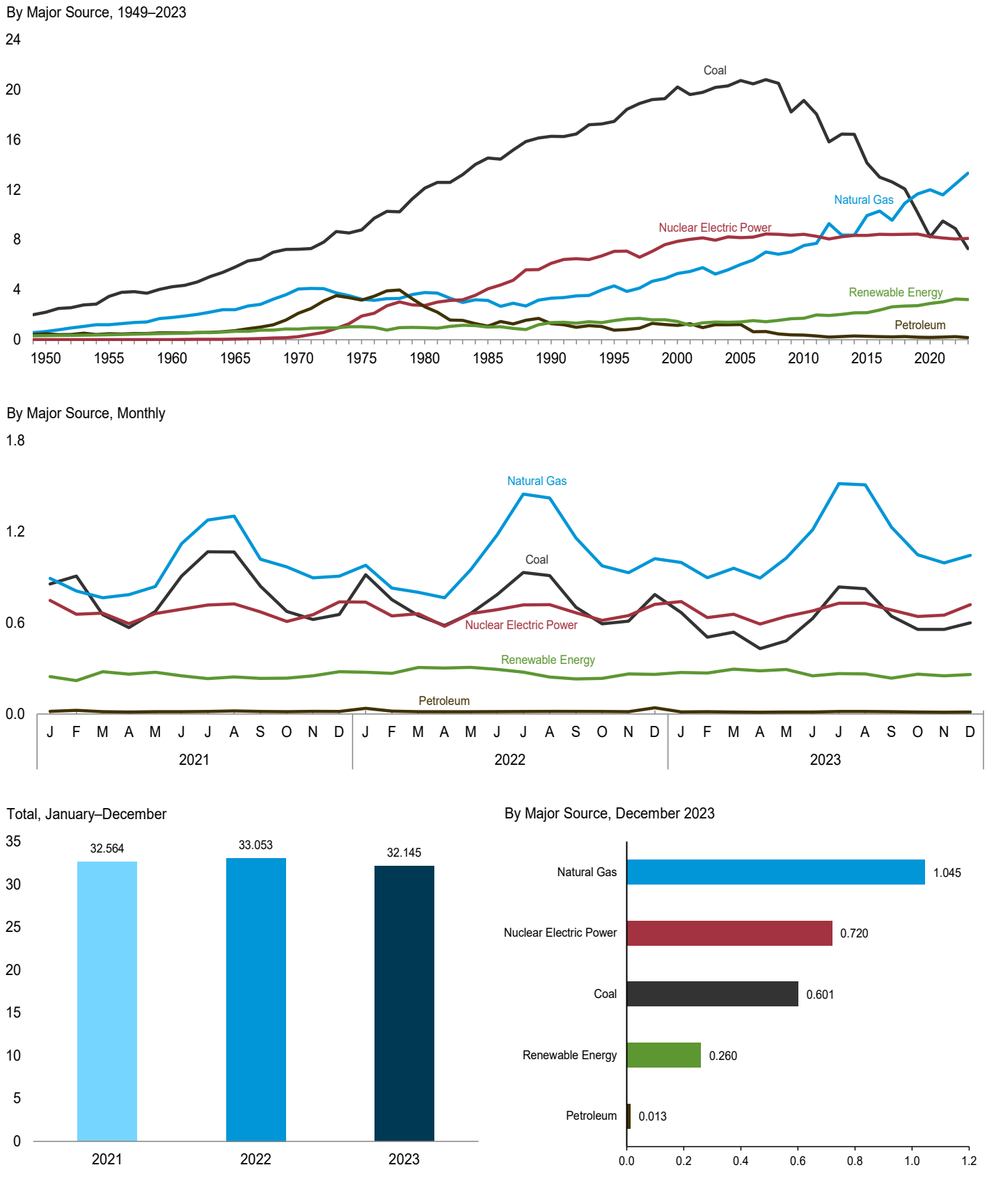
R=Revised. NA=Not available.

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)



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]												
	Fossil Fuels				Nuclear Electric Power	Renewable Energy[b]						Electricity Net Imports[f]	Total Primary
	Coal	Natural Gas[c]	Petroleum	Total		Hydroelectric Power[d]	Geothermal	Solar[e]	Wind	Biomass	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**	**[g]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**
2006 Total	**20,462**	**6,375**	**637**	**27,474**	**8,215**	**977**	**50**	**2**	**91**	**412**	**1,531**	**63**	**37,283**
2007 Total	**20,808**	**7,005**	**648**	**28,461**	**8,459**	**839**	**50**	**2**	**118**	**423**	**1,432**	**107**	**38,458**
2008 Total	**20,513**	**6,829**	**459**	**27,801**	**8,426**	**864**	**51**	**3**	**189**	**435**	**1,541**	**112**	**37,881**
2009 Total	**18,225**	**7,022**	**382**	**25,630**	**8,355**	**926**	**51**	**3**	**252**	**441**	**1,674**	**116**	**35,775**
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**	**1,150**	**428**	**2,902**	**161**	**31,728**
2021 January	856	892	18	1,765	748	83	4	19	102	38	247	14	2,775
February	908	810	24	1,742	657	68	4	21	91	35	220	10	2,629
March	654	765	15	1,435	664	72	4	32	134	37	278	13	2,390
April	569	785	13	1,367	595	66	4	37	123	32	263	11	2,237
May	675	839	15	1,529	661	79	4	42	115	34	275	13	2,478
June	909	1,121	15	2,045	689	80	4	41	91	36	252	15	3,001
July	1,068	1,277	17	2,362	718	75	4	41	74	38	233	15	3,328
August	1,066	1,302	21	2,388	725	69	4	41	92	38	244	12	3,368
September	841	1,019	17	1,877	673	58	4	38	99	35	234	9	2,793
October	675	968	16	1,659	609	58	4	31	110	33	236	10	2,514
November	622	896	18	1,536	654	66	5	26	122	34	252	4	2,447
December	655	907	17	1,579	738	80	5	21	136	37	278	8	2,603
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	668	[R]997	14	[R]1,679	740	76	5	27	134	31	273	11	[R]2,704
February	506	897	16	1,419	635	63	4	31	[R]144	27	270	7	2,331
March	539	[R]960	13	[R]1,512	656	69	5	41	152	29	295	9	[R]2,472
April	430	895	12	1,337	592	59	5	50	147	24	285	7	2,220
May	481	[R]1,026	[R]13	[R]1,519	642	93	5	57	109	28	293	9	[R]2,463
June	629	[R]1,213	13	[R]1,855	679	66	4	60	94	28	252	6	[R]2,792
July	[R]837	1,516	17	[R]2,370	730	72	4	64	95	30	266	4	[R]3,370
August	825	1,508	17	2,350	729	72	5	60	97	[R]30	[R]264	5	3,347
September	644	[R]1,229	16	[R]1,888	685	56	5	53	96	27	236	(s)	[R]2,810
October	557	1,048	13	[R]1,619	642	61	5	48	124	23	262	[R]1	[R]2,523
November	557	995	12	1,564	650	61	5	35	126	24	[R]252	[R]2	[R]2,468
December	601	1,045	13	1,660	720	66	5	31	131	27	260	5	2,644
Total	**7,276**	**13,328**	**168**	**20,771**	**8,101**	**814**	**56**	**558**	**1,450**	**329**	**3,207**	**65**	**32,145**

[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.
R=Revised. 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	5.3	29.9	20.4	959.3
2014	6.3	730.6	18.5	29.4	17.0	9.5	6.2	15.6	8.3	43.0	5.2	31.4	20.6	941.5
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	945.9
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	5.8	29.7	18.8	897.0
2019	5.9	682.1	16.2	27.2	15.4	9.8	6.2	15.8	8.5	46.0	5.9	31.9	19.1	890.0
2020	5.4	648.8	17.1	26.4	14.4	9.5	5.5	14.6	8.1	46.1	5.5	30.6	17.0	849.0
2021	6.4	650.7	15.9	27.5	14.4	9.1	5.4	14.5	8.1	45.5	5.6	30.3	18.1	851.5
2022	8.0	622.5	16.5	26.3	13.4	9.6	6.3	14.5	8.4	48.3	5.5	30.8	17.3	827.2

[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://ctsedwweb.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://ctsedwweb.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	140.0	424.0	1.9	46.6	613.2	2.8	184.7	21.8	959.3
2014	13.5	125.6	.3	133.5	414.3	1.8	44.9	594.8	3.6	182.1	21.9	941.5
2015	12.6	122.2	.3	134.4	418.9	1.8	46.8	602.2	3.7	184.3	20.9	945.9
2016	10.2	115.4	.3	129.7	403.9	1.7	46.5	582.2	3.6	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	127.8	383.2	1.7	45.5	558.5	3.0	180.0	23.6	897.0
2019	5.0	131.7	.3	125.4	376.8	1.9	46.6	551.0	2.7	178.2	21.5	890.0
2020	5.2	128.3	.2	129.6	345.0	1.7	43.3	520.0	1.6	173.7	20.3	849.0
2021	5.3	129.6	.4	122.2	352.0	1.7	44.9	521.2	1.9	173.1	20.5	851.5
2022	3.5	128.8	.2	126.4	326.9	1.6	44.4	499.5	1.8	171.8	21.8	827.2

[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://ctsedwweb.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)".

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 occur at steam-electric power plants (conventional and nuclear) in the conversion of heat energy into mechanical energy to turn electric generators. The loss is a thermodynamically necessary feature of the steam-electric cycle. 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. Total losses are allocated to the end-use sectors in proportion to each sector's share of total electricity sales. Overall, about two thirds of total energy input is lost in conversion. Currently, of electricity generated, approximately 5% is lost in plant use and 7% is lost in transmission and distribution.

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.