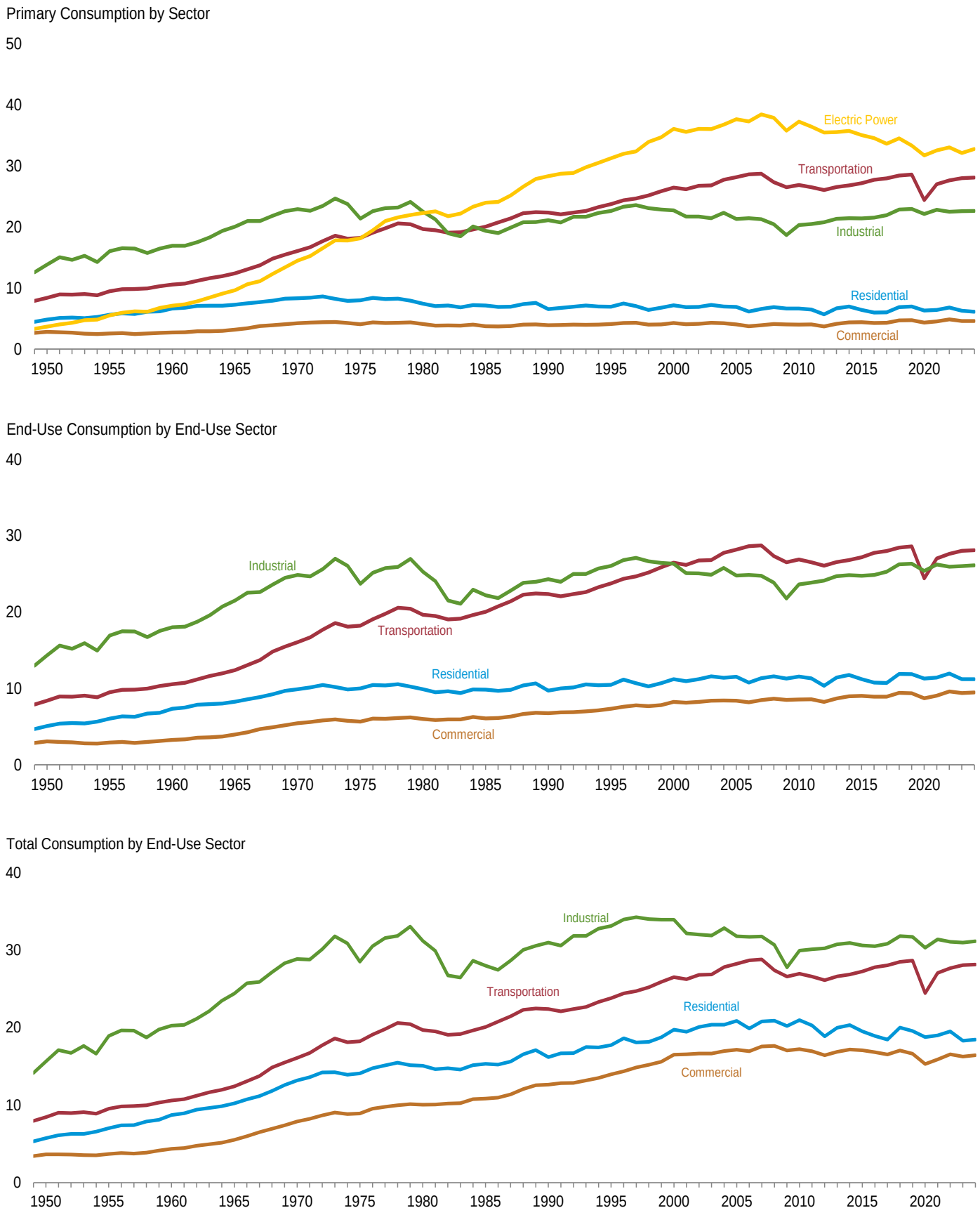
# 2. Energy Consumption By Sector

**Figure 2.1a Energy Consumption by Sector, 1949–2024**

(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** |
| **2010 Total** | **6,635** | **4,933** | **11,568** | **9,419** | **20,987** | **4,014** | **4,539** | **8,553** | **8,666** | **17,219** | **20,317** | **3,314** | **23,631** | **6,328** | **29,958** |
| **2011 Total** | **6,465** | **4,855** | **11,319** | **8,967** | **20,286** | **4,051** | **4,531** | **8,583** | **8,370** | **16,952** | **20,494** | **3,382** | **23,876** | **6,247** | **30,123** |
| **2012 Total** | **5,672** | **4,690** | **10,362** | **8,510** | **18,871** | **3,702** | **4,528** | **8,230** | **8,216** | **16,446** | **20,765** | **3,363** | **24,128** | **6,103** | **30,230** |
| **2013 Total** | **6,669** | **4,759** | **11,428** | **8,554** | **19,983** | **4,134** | **4,562** | **8,696** | **8,200** | **16,897** | **21,357** | **3,362** | **24,719** | **6,043** | **30,762** |
| **2014 Total** | **6,976** | **4,801** | **11,778** | **8,560** | **20,338** | **4,353** | **4,614** | **8,966** | **8,226** | **17,192** | **21,449** | **3,404** | **24,853** | **6,068** | **30,921** |
| **2015 Total** | **6,423** | **4,791** | **11,214** | **8,306** | **19,520** | **4,398** | **4,643** | **9,040** | **8,050** | **17,090** | **21,411** | **3,366** | **24,777** | **5,836** | **30,613** |
| **2016 Total** | **R5,969** | **4,815** | **10,783** | **8,146** | **18,929** | **4,270** | **4,665** | **8,935** | **7,893** | **16,828** | **21,549** | **3,333** | **24,882** | **5,639** | **30,520** |
| **2017 Total** | **6,018** | **4,704** | **10,722** | **7,751** | **R18,473** | **4,309** | **4,616** | **8,925** | **7,606** | **16,530** | **21,943** | **3,358** | **25,301** | **5,534** | **30,835** |
| **2018 Total** | **R6,886** | **5,013** | **R11,899** | **8,126** | **R20,025** | **4,705** | **4,715** | **9,419** | **7,643** | **17,062** | **22,864** | **3,414** | **26,278** | **5,535** | **31,813** |
| **2019 Total** | **R6,976** | **4,914** | **R11,890** | **7,686** | **R19,577** | **4,722** | **4,643** | **9,365** | **7,263** | **16,628** | **22,946** | **3,420** | **26,366** | **5,349** | **R31,715** |
| **2020 Total** | **R6,295** | **4,997** | **R11,292** | **7,503** | **R18,795** | **4,325** | **4,393** | **8,718** | **6,595** | **15,313** | **22,128** | **3,272** | **25,401** | **4,913** | **30,314** |
| **2021 Total** | **R6,420** | **5,017** | **R11,437** | **7,564** | **R19,002** | **4,537** | **4,533** | **9,070** | **6,834** | **15,904** | **R22,828** | **3,414** | **R26,242** | **5,147** | **R31,390** |
| **2022 Total** | **R6,820** | **5,150** | **R11,969** | **7,553** | **R19,522** | **4,860** | **4,746** | **9,605** | **6,961** | **16,566** | **22,488** | **3,482** | **25,970** | **5,107** | **31,077** |
| **2023** January | R1,024 | 449 | R1,473 | 641 | R2,114 | R616 | 385 | R1,001 | 549 | R1,550 | 1,914 | 274 | 2,188 | 391 | R2,579 |
| February | R899 | 383 | R1,282 | 509 | R1,790 | R563 | 354 | R917 | 471 | R1,388 | 1,731 | 261 | 1,992 | 347 | 2,339 |
| March | R828 | 377 | R1,205 | 516 | R1,721 | R538 | 384 | R922 | 526 | R1,448 | 1,918 | 283 | 2,201 | 387 | 2,588 |
| April | R481 | 328 | R809 | 432 | R1,241 | R355 | 355 | R711 | 468 | R1,178 | 1,850 | 273 | 2,123 | 360 | 2,482 |
| May | R322 | 342 | R664 | 481 | R1,145 | R278 | 386 | R665 | 543 | R1,207 | 1,879 | 289 | 2,168 | 406 | 2,574 |
| June | R235 | 414 | R649 | 618 | R1,267 | R238 | 412 | R650 | 615 | R1,264 | 1,825 | 294 | 2,119 | 439 | 2,558 |
| July | R210 | 545 | R755 | 845 | R1,600 | R226 | 465 | R691 | 721 | R1,413 | 1,846 | 309 | 2,155 | 479 | 2,634 |
| August | R199 | 551 | R750 | 827 | R1,577 | R228 | 472 | R700 | 709 | R1,410 | R1,933 | 314 | R2,247 | 472 | 2,719 |
| September | R218 | 453 | R671 | 625 | R1,296 | R232 | 432 | R664 | 596 | R1,259 | 1,867 | 295 | 2,162 | 407 | 2,569 |
| October | R356 | 353 | R709 | 489 | R1,198 | R325 | 403 | R728 | 560 | R1,287 | 1,926 | 293 | 2,219 | 407 | 2,626 |
| November | R658 | 348 | R1,006 | 503 | R1,510 | R459 | 374 | R834 | 542 | R1,376 | R1,960 | 280 | R2,240 | 405 | 2,646 |
| December | R855 | 406 | R1,260 | 606 | R1,867 | R543 | 380 | R923 | 568 | R1,491 | 1,952 | 279 | R2,230 | 416 | R2,646 |
| **Total** | **R6,285** | **4,947** | **R11,232** | **7,077** | **R18,310** | **R4,601** | **4,804** | **R9,405** | **6,873** | **R16,278** | **R22,601** | **3,444** | **R26,044** | **4,926** | **R30,970** |
| **2024** January | R1,162 | 488 | R1,649 | R751 | R2,400 | R685 | 402 | R1,087 | R619 | R1,706 | R1,964 | 281 | R2,245 | R433 | 2,678 |
| February | R849 | 396 | R1,245 | R526 | R1,771 | R551 | 368 | R919 | R488 | R1,406 | R1,798 | 266 | R2,064 | 353 | R2,418 |
| March | R687 | 350 | R1,038 | 467 | R1,505 | R469 | 376 | R845 | R501 | R1,346 | 1,872 | 283 | 2,155 | 377 | 2,532 |
| April | R456 | 324 | R780 | 422 | R1,203 | R347 | 366 | R713 | 477 | R1,191 | R1,826 | 280 | R2,106 | 365 | R2,471 |
| May | R291 | 368 | R659 | 521 | R1,180 | R271 | 397 | R668 | 562 | R1,230 | R1,898 | 299 | R2,197 | R424 | R2,621 |
| June | R226 | 475 | R700 | R694 | R1,394 | R239 | 431 | R670 | R630 | R1,300 | R1,805 | 301 | R2,106 | 440 | R2,547 |
| July | R203 | 565 | R768 | R844 | R1,612 | R229 | 470 | R700 | R703 | R1,402 | R1,884 | 316 | R2,201 | R473 | R2,673 |
| August | R199 | 545 | R743 | R803 | R1,546 | R229 | 474 | R703 | R699 | R1,402 | R1,917 | 320 | R2,237 | 471 | R2,708 |
| September | R214 | 438 | R652 | 606 | R1,259 | R239 | 430 | R668 | R595 | R1,263 | 1,856 | 300 | 2,156 | 415 | R2,570 |
| October | R318 | 365 | R683 | R495 | R1,178 | R310 | 408 | R718 | R554 | R1,272 | R1,946 | 301 | R2,248 | R409 | R2,656 |
| November | R564 | 339 | R903 | R493 | R1,396 | R422 | 377 | R799 | 547 | R1,346 | R1,885 | 284 | R2,169 | 413 | R2,582 |
| December | R958 | 430 | R1,388 | R644 | R2,031 | R596 | 394 | R990 | R590 | R1,580 | 1,964 | 287 | 2,251 | 429 | 2,680 |
| **Total** | **R6,127** | **5,083** | **R11,209** | **R7,244** | **R18,453** | **R4,587** | **4,893** | **R9,480** | **R6,973** | **R16,453** | **R22,615** | **3,519** | **R26,134** | **R5,015** | **R31,149** |
| **2025** January | 1,278 | 521 | 1,799 | 799 | 2,598 | 758 | 421 | 1,178 | 646 | 1,824 | 2,069 | 288 | 2,357 | 442 | 2,799 |

[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** | **4,738** | **43,942** | **7,086** | **43,942** |
| **1965 Total** | **12,399** | **10** | **12,409** | **20** | **12,428** | **42,919** | **3,254** | **46,173** | **6,392** | **52,565** | **9,646** | **52,565** |
| **1970 Total** | **16,062** | **11** | **16,073** | **22** | **16,094** | **51,540** | **4,751** | **56,291** | **9,745** | **66,036** | **14,495** | **66,036** |
| **1975 Total** | **18,211** | **10** | **18,221** | **21** | **18,241** | **51,638** | **5,961** | **57,599** | **12,188** | **69,787** | **18,149** | **69,788** |
| **1980 Total** | **19,659** | **11** | **19,670** | **23** | **19,694** | **53,731** | **7,146** | **60,878** | **15,162** | **76,040** | **22,309** | **76,038** |
| **1985 Total** | **20,042** | **14** | **20,056** | **29** | **20,084** | **50,285** | **7,929** | **58,214** | **16,059** | **74,273** | **23,988** | **74,268** |
| **1990 Total** | **22,366** | **16** | **22,382** | **33** | **22,415** | **53,910** | **9,255** | **63,165** | **19,084** | **82,250** | **28,340** | **82,256** |
| **1995 Total** | **23,757** | **17** | **23,774** | **35** | **23,808** | **57,412** | **10,281** | **67,694** | **20,973** | **88,666** | **31,254** | **88,668** |
| **2000 Total** | **26,456** | **18** | **26,474** | **38** | **26,512** | **60,610** | **11,674** | **72,284** | **24,409** | **96,693** | **36,083** | **96,694** |
| **2005 Total** | **28,179** | **26** | **28,205** | **52** | **28,257** | **60,452** | **12,491** | **72,944** | **25,158** | **98,101** | **37,649** | **98,101** |
| **2010 Total** | **26,894** | **26** | **26,920** | **50** | **26,970** | **57,860** | **12,812** | **70,672** | **24,463** | **95,135** | **37,275** | **95,142** |
| **2011 Total** | **26,523** | **26** | **26,549** | **48** | **26,598** | **57,533** | **12,794** | **70,327** | **23,632** | **93,959** | **36,426** | **93,966** |
| **2012 Total** | **26,057** | **25** | **26,082** | **45** | **26,127** | **56,195** | **12,606** | **68,801** | **22,874** | **91,675** | **35,480** | **91,677** |
| **2013 Total** | **26,541** | **26** | **26,567** | **47** | **26,614** | **58,701** | **12,709** | **71,410** | **22,845** | **94,255** | **35,554** | **94,253** |
| **2014 Total** | **26,802** | **26** | **26,828** | **47** | **26,875** | **59,580** | **12,845** | **72,425** | **22,902** | **95,326** | **35,747** | **95,332** |
| **2015 Total** | **27,182** | **26** | **27,208** | **45** | **27,253** | **59,414** | **12,826** | **72,239** | **22,237** | **94,476** | **35,063** | **94,478** |
| **2016 Total** | **27,741** | **26** | **27,767** | **43** | **27,810** | **59,529** | **12,838** | **R 72,367** | **21,720** | **94,087** | **34,558** | **R 94,083** |
| **2017 Total** | **27,980** | **26** | **28,005** | **42** | **28,048** | **60,249** | **12,704** | **R 72,954** | **20,932** | **R 93,886** | **33,636** | **R 93,886** |
| **2018 Total** | **28,435** | **26** | **28,461** | **42** | **28,504** | **R 62,890** | **13,168** | **R 76,057** | **21,346** | **R 97,403** | **34,514** | **R 97,396** |
| **2019 Total** | **R 28,603** | **26** | **R 28,629** | **41** | **R 28,670** | **R 63,247** | **13,004** | **R 76,250** | **20,339** | **R 96,589** | **33,343** | **R 96,595** |
| **2020 Total** | **24,397** | **22** | **24,419** | **34** | **24,453** | **R 57,145** | **12,685** | **R 69,830** | **19,045** | **88,875** | **31,730** | **R 88,871** |
| **2021 Total** | **R 27,020** | **22** | **R 27,041** | **33** | **R 27,074** | **R 60,805** | **12,986** | **R 73,791** | **19,578** | **R 93,369** | **32,564** | **R 93,364** |
| **2022 Total** | **27,621** | **23** | **27,643** | **33** | **27,676** | **R 61,789** | **13,400** | **R 75,188** | **19,653** | **R 94,841** | **33,053** | **R 94,838** |
| **2023** January | R 2,218 | 2 | R 2,220 | 3 | R 2,223 | R 5,772 | 1,110 | R 6,882 | 1,584 | R 8,467 | 2,695 | R 8,466 |
| February | R 2,077 | 2 | R 2,079 | 3 | R 2,081 | R 5,270 | 1,000 | R 6,270 | 1,329 | R 7,599 | 2,329 | R 7,595 |
| March | R 2,375 | 2 | R 2,377 | 3 | R 2,380 | R 5,660 | 1,046 | R 6,705 | 1,431 | R 8,136 | 2,477 | R 8,132 |
| April | R 2,262 | 2 | R 2,263 | 2 | R 2,266 | R 4,948 | 958 | R 5,906 | 1,262 | R 7,168 | 2,220 | R 7,164 |
| May | R 2,399 | 2 | R 2,400 | 3 | R 2,403 | R 4,877 | 1,019 | R 5,897 | 1,432 | R 7,329 | 2,451 | R 7,326 |
| June | R 2,408 | 2 | R 2,410 | 3 | R 2,413 | R 4,705 | 1,122 | R 5,827 | 1,675 | R 7,502 | 2,796 | R 7,504 |
| July | R 2,412 | 2 | R 2,414 | 3 | R 2,417 | R 4,694 | 1,321 | R 6,015 | 2,048 | R 8,063 | 3,369 | R 8,071 |
| August | R 2,495 | 2 | R 2,497 | 3 | R 2,500 | R 4,855 | 1,339 | R 6,194 | 2,011 | R 8,206 | 3,350 | R 8,213 |
| September | R 2,291 | 2 | R 2,293 | 3 | R 2,296 | R 4,608 | 1,182 | R 5,790 | 1,630 | R 7,420 | 2,813 | R 7,423 |
| October | R 2,421 | 2 | R 2,423 | 3 | R 2,426 | R 5,028 | 1,051 | R 6,079 | 1,458 | R 7,538 | 2,509 | R 7,537 |
| November | R 2,302 | 2 | R 2,304 | 3 | R 2,306 | R 5,380 | 1,004 | R 6,384 | 1,453 | R 7,837 | 2,457 | R 7,834 |
| December | R 2,348 | 2 | R 2,350 | 3 | R 2,353 | R 5,697 | 1,067 | R 6,764 | 1,594 | R 8,358 | 2,660 | R 8,356 |
| **Total** | **R 28,006** | **23** | **R 28,030** | **34** | **R 28,063** | **R 61,493** | **13,219** | **R 74,712** | **18,909** | **R 93,621** | **32,128** | **R 93,621** |
| **2024** January | R 2,215 | 2 | R 2,217 | 3 | R 2,221 | R 6,026 | 1,173 | R 7,199 | R 1,806 | R 9,004 | R 2,978 | R 9,007 |
| February | R 2,122 | 2 | R 2,124 | 2 | R 2,126 | R 5,320 | 1,032 | R 6,352 | R 1,369 | R 7,721 | R 2,401 | R 7,717 |
| March | R 2,337 | 2 | R 2,339 | 3 | R 2,342 | R 5,365 | 1,011 | R 6,376 | R 1,348 | 7,724 | R 2,359 | 7,718 |
| April | R 2,290 | 2 | R 2,292 | 2 | R 2,294 | R 4,919 | 973 | R 5,891 | R 1,267 | R 7,158 | R 2,240 | R 7,154 |
| May | R 2,457 | 2 | R 2,459 | 3 | R 2,462 | R 4,917 | 1,066 | 5,983 | R 1,510 | R 7,493 | R 2,577 | R 7,491 |
| June | R 2,343 | 2 | R 2,345 | 3 | R 2,348 | R 4,614 | 1,209 | 5,823 | R 1,767 | R 7,589 | R 2,976 | 7,592 |
| July | R 2,498 | 2 | R 2,500 | 3 | R 2,504 | 4,815 | 1,354 | 6,169 | R 2,023 | R 8,192 | R 3,377 | R 8,198 |
| August | R 2,490 | 2 | R 2,492 | 3 | R 2,495 | R 4,835 | 1,340 | R 6,175 | R 1,976 | R 8,151 | R 3,316 | R 8,157 |
| September | R 2,297 | 2 | R 2,299 | 3 | R 2,302 | R 4,606 | 1,169 | R 5,775 | R 1,619 | R 7,394 | R 2,788 | R 7,396 |
| October | R 2,426 | 2 | R 2,427 | 3 | R 2,430 | R 5,000 | 1,076 | R 6,076 | R 1,460 | R 7,536 | R 2,536 | R 7,535 |
| November | R 2,267 | 2 | R 2,269 | 3 | R 2,272 | R 5,138 | 1,002 | R 6,140 | R 1,456 | R 7,595 | R 2,457 | R 7,593 |
| December | R 2,351 | 2 | R 2,353 | 3 | R 2,356 | R 5,868 | 1,113 | R 6,981 | R 1,666 | R 8,647 | R 2,779 | R 8,648 |
| **Total** | **R 28,093** | **24** | **R 28,117** | **34** | **R 28,151** | **R 61,422** | **13,518** | **R 74,940** | **R 19,266** | **R 94,205** | **R 32,784** | **R 94,207** |
| **2025** January | 2,283 | 2 | 2,285 | 3 | 2,289 | 6,387 | 1,232 | 7,619 | 1,890 | 9,510 | 3,123 | 9,514 |

[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.

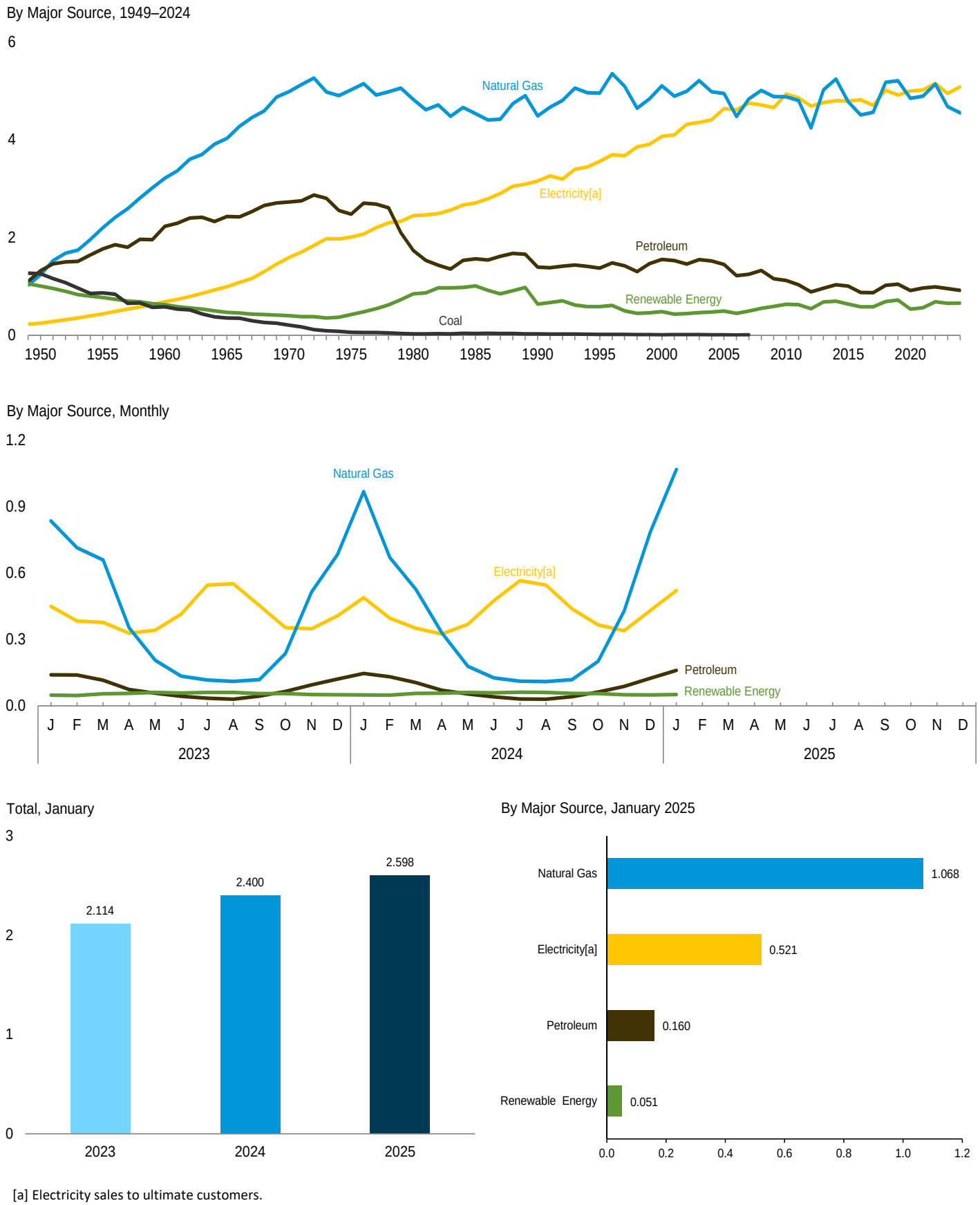
Notes: • Data are estimates, except for the electric power sector. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 2, "Other Energy Losses," at end of section. • See Note 3, "Energy Consumption Data and Surveys," at end of section. • Totals may 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 |
| **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 | R 585 | R 5,969 | 4,815 | 10,783 | 8,146 | 18,929 |
| **2017 Total** | NA | 4,564 | 871 | 5,436 | 40 | 113 | 430 | 582 | 6,018 | 4,704 | 10,722 | 7,751 | R 18,473 |
| **2018 Total** | NA | 5,174 | 1,022 | 6,197 | 40 | 123 | R 526 | R 689 | R 6,886 | 5,013 | R 11,899 | 8,126 | R 20,025 |
| **2019 Total** | NA | 5,208 | 1,045 | 6,253 | 40 | 136 | R 547 | R 723 | R 6,976 | 4,914 | R 11,890 | 7,686 | R 19,577 |
| **2020 Total** | NA | 4,846 | 914 | 5,760 | 40 | R 150 | 345 | R 535 | R 6,295 | 4,997 | R 11,292 | 7,503 | R 18,795 |
| **2021 Total** | NA | 4,889 | 967 | 5,856 | 40 | R 167 | R 357 | R 564 | R 6,420 | 5,017 | R 11,437 | 7,564 | R 19,002 |
| **2022 Total** | NA | 5,140 | 992 | 6,132 | 40 | R 199 | R 450 | R 688 | R 6,820 | 5,150 | R 11,969 | 7,553 | R 19,522 |
| **2023** January | NA | 835 | 140 | 976 | 3 | 12 | R 32 | R 48 | R 1,024 | 449 | R 1,473 | 641 | R 2,114 |
| February | NA | 714 | 139 | 853 | 3 | 14 | R 29 | R 46 | R 899 | 383 | R 1,282 | 509 | R 1,790 |
| March | NA | 659 | 115 | 774 | 3 | 19 | R 32 | R 54 | R 828 | 377 | R 1,205 | 516 | R 1,721 |
| April | NA | 352 | 73 | 425 | 3 | 21 | R 31 | R 56 | R 481 | 328 | R 809 | 432 | R 1,241 |
| May | NA | 205 | 57 | 262 | 3 | 24 | R 32 | R 60 | R 322 | 342 | R 664 | 481 | R 1,145 |
| June | NA | 134 | 43 | 177 | 3 | 23 | R 31 | R 58 | R 235 | 414 | R 649 | 618 | R 1,267 |
| July | NA | 116 | 34 | 150 | 3 | 24 | R 32 | R 60 | R 210 | 545 | R 755 | 845 | R 1,600 |
| August | NA | 110 | 30 | 140 | 3 | 24 | R 32 | R 60 | R 199 | 551 | R 750 | 827 | R 1,577 |
| September | NA | 118 | 44 | 162 | 3 | 21 | R 31 | R 55 | R 218 | 453 | R 671 | 625 | R 1,296 |
| October | NA | 236 | 65 | 301 | 3 | R 19 | R 32 | R 55 | R 356 | 353 | R 709 | 489 | R 1,198 |
| November | NA | 514 | 94 | 608 | 3 | 16 | R 31 | R 51 | R 658 | 348 | R 1,006 | 503 | R 1,510 |
| December | NA | 683 | 121 | 804 | 3 | 14 | R 32 | R 50 | R 855 | 406 | R 1,260 | 606 | R 1,867 |
| **Total** | NA | 4,677 | 955 | 5,632 | 40 | R 231 | R 382 | R 653 | R 6,285 | 4,947 | R 11,232 | 7,077 | R 18,310 |
| **2024** January | NA | R 968 | 146 | R 1,113 | 3 | 15 | R 30 | R 49 | R 1,162 | 488 | R 1,649 | R 751 | R 2,400 |
| February | NA | 670 | 131 | 801 | 3 | 17 | R 28 | R 48 | R 849 | 396 | R 1,245 | R 526 | R 1,771 |
| March | NA | 527 | 105 | 632 | 3 | 22 | R 30 | R 56 | R 687 | 350 | R 1,038 | 467 | R 1,505 |
| April | NA | 329 | 70 | 399 | 3 | 24 | R 29 | R 57 | R 456 | 324 | R 780 | 422 | R 1,203 |
| May | NA | 178 | 53 | R 231 | 3 | R 26 | R 30 | R 60 | R 291 | 368 | R 659 | 521 | R 1,180 |
| June | NA | R 126 | 40 | 167 | 3 | 27 | R 29 | R 59 | R 226 | 475 | R 700 | R 694 | R 1,394 |
| July | NA | 111 | 31 | 142 | 3 | 27 | R 30 | R 61 | R 203 | 565 | R 768 | R 844 | R 1,612 |
| August | NA | 109 | 30 | 139 | 3 | 26 | R 30 | R 60 | R 199 | 545 | R 743 | R 803 | R 1,546 |
| September | NA | 118 | 41 | 159 | 3 | 23 | R 29 | R 56 | R 214 | 438 | R 652 | 606 | R 1,259 |
| October | NA | R 201 | 62 | 264 | 3 | 21 | R 30 | R 55 | R 318 | 365 | R 683 | R 495 | R 1,178 |
| November | NA | R 428 | 87 | R 514 | 3 | 17 | R 29 | R 50 | R 564 | 339 | R 903 | R 493 | R 1,396 |
| December | NA | R 785 | 124 | R 909 | 3 | R 15 | R 30 | R 49 | R 958 | 430 | R 1,388 | R 644 | R 2,031 |
| **Total** | NA | R 4,551 | 918 | R 5,469 | 40 | R 260 | R 358 | R 658 | R 6,127 | 5,083 | R 11,209 | R 7,244 | R 18,453 |
| **2025** January | NA | 1,068 | 160 | 1,227 | 3 | 16 | 31 | 51 | 1,278 | 521 | 1,799 | 799 | 2,598 |

[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.

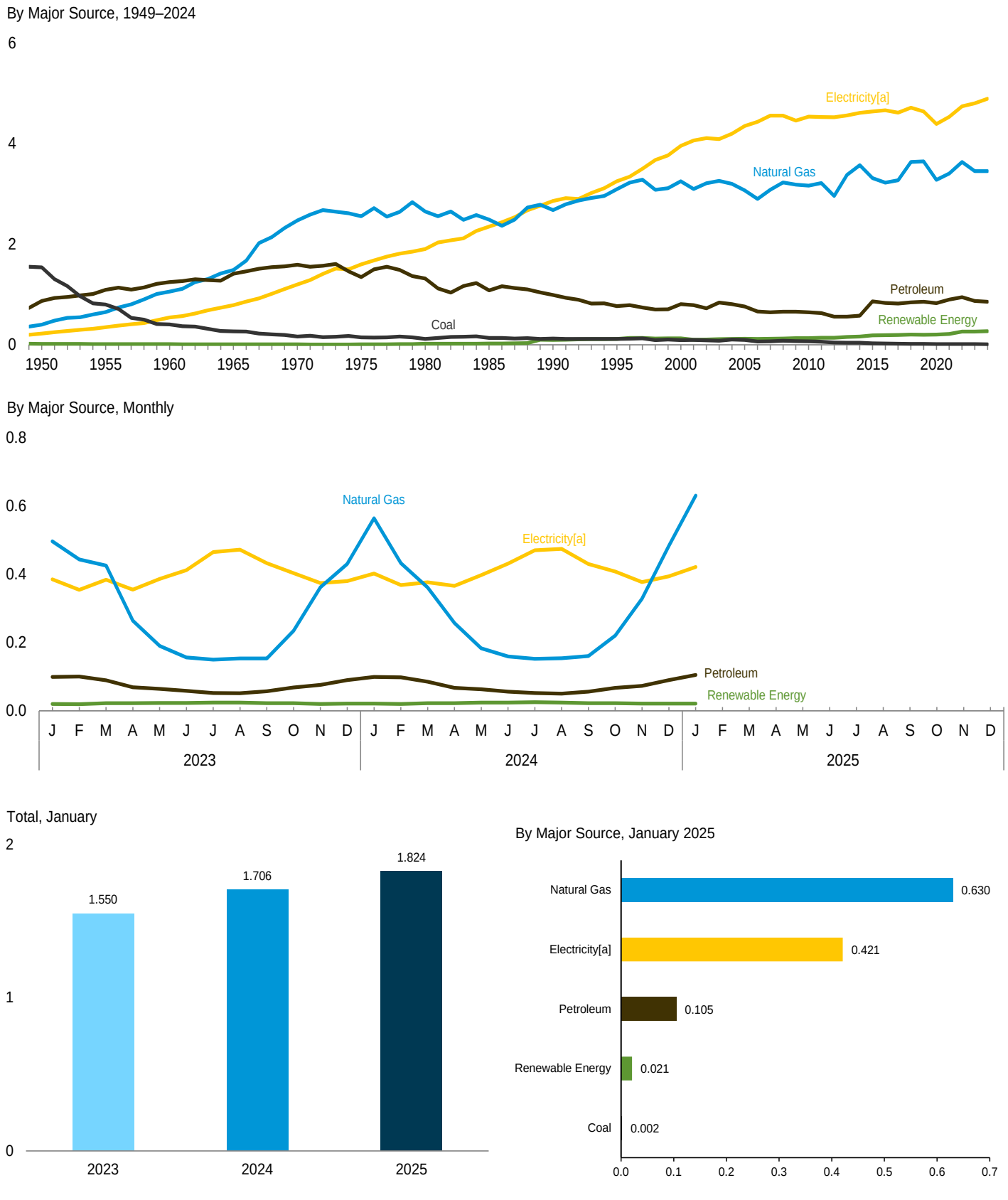
R=Revised. NA=Not available.

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 |
| **2010 Total** | 70 | 3,165 | 647 | 3,881 | (s) | 19 | 4 | (s) | 111 | 134 | 4,014 | 4,539 | 8,553 | 8,666 | 17,219 |
| **2011 Total** | 62 | 3,216 | 632 | 3,910 | (s) | 20 | 7 | (s) | 115 | 141 | 4,051 | 4,531 | 8,583 | 8,370 | 16,952 |
| **2012 Total** | 44 | 2,960 | 560 | 3,563 | (s) | 20 | 11 | (s) | 108 | 139 | 3,702 | 4,528 | 8,230 | 8,216 | 16,446 |
| **2013 Total** | 41 | 3,380 | 558 | 3,979 | (s) | 20 | 15 | (s) | 120 | 155 | 4,134 | 4,562 | 8,696 | 8,200 | 16,897 |
| **2014 Total** | 40 | 3,572 | 578 | 4,190 | (s) | 20 | 19 | (s) | 124 | 163 | 4,353 | 4,614 | 8,966 | 8,226 | 17,192 |
| **2015 Total** | 31 | 3,316 | 864 | 4,211 | (s) | 20 | 21 | (s) | 146 | 187 | 4,398 | 4,643 | 9,040 | 8,050 | 17,090 |
| **2016 Total** | 24 | 3,224 | 832 | 4,079 | 1 | 20 | 23 | (s) | 148 | 191 | 4,270 | 4,665 | 8,935 | 7,893 | 16,828 |
| **2017 Total** | 21 | 3,273 | 820 | 4,113 | 1 | 20 | 28 | (s) | 146 | 195 | 4,309 | 4,616 | 8,925 | 7,606 | 16,530 |
| **2018 Total** | 19 | 3,638 | 845 | 4,502 | 1 | 20 | 35 | 1 | 146 | 203 | 4,705 | 4,715 | 9,419 | 7,643 | 17,062 |
| **2019 Total** | 17 | 3,647 | 857 | 4,521 | 1 | 21 | 40 | 1 | 139 | 201 | 4,722 | 4,643 | 9,365 | 7,263 | 16,628 |
| **2020 Total** | 15 | 3,279 | 827 | 4,120 | 1 | 21 | 46 | 1 | 137 | 205 | 4,325 | 4,393 | 8,718 | 6,595 | 15,313 |
| **2021 Total** | 15 | 3,409 | 898 | 4,322 | 1 | 21 | 54 | 1 | 139 | 215 | 4,537 | 4,533 | 9,070 | 6,834 | 15,904 |
| **2022 Total** | 14 | 3,635 | 947 | 4,596 | 1 | 20 | 63 | 1 | 180 | 263 | 4,860 | 4,746 | 9,605 | 6,961 | 16,566 |
| **2023** January | 1 | 496 | R 99 | R 596 | (s) | 2 | 4 | (s) | R 14 | R 20 | R 616 | 385 | R 1,001 | 549 | R 1,550 |
| February | 1 | 443 | R 100 | R 544 | (s) | 2 | 4 | (s) | 13 | 19 | R 563 | 354 | R 917 | 471 | R 1,388 |
| March | 1 | 425 | R 89 | R 516 | (s) | 2 | 6 | (s) | R 14 | 22 | R 538 | 384 | R 922 | 526 | R 1,448 |
| April | 1 | 264 | R 69 | R 333 | (s) | 2 | 7 | (s) | 14 | 22 | R 355 | 355 | R 711 | 468 | R 1,178 |
| May | 1 | 190 | R 64 | R 255 | (s) | 2 | 7 | (s) | R 14 | R 23 | R 278 | 386 | R 665 | 543 | R 1,207 |
| June | 1 | 156 | R 58 | R 214 | (s) | 2 | 7 | (s) | R 14 | R 23 | R 238 | 412 | R 650 | 615 | R 1,264 |
| July | 1 | 150 | R 52 | R 202 | (s) | 2 | 7 | (s) | 15 | 24 | R 226 | 465 | R 691 | 721 | R 1,413 |
| August | 1 | 153 | R 51 | R 204 | (s) | 2 | 7 | (s) | 15 | 24 | R 228 | 472 | R 700 | 709 | R 1,410 |
| September | 1 | 153 | R 57 | R 210 | (s) | 2 | 6 | (s) | 14 | 22 | R 232 | 432 | R 664 | 596 | R 1,259 |
| October | 1 | 234 | R 68 | R 303 | (s) | 2 | 5 | (s) | 15 | 22 | R 325 | 403 | R 728 | 560 | R 1,287 |
| November | 1 | 362 | R 76 | R 439 | (s) | 2 | 4 | (s) | R 14 | R 20 | R 459 | 374 | R 834 | 542 | R 1,376 |
| December | 1 | 430 | R 90 | R 522 | (s) | 2 | 4 | (s) | 15 | 21 | R 543 | 380 | R 923 | 568 | R 1,491 |
| **Total** | 12 | 3,455 | R 872 | R 4,338 | 1 | 20 | 69 | (s) | R 172 | R 263 | R 4,601 | 4,804 | R 9,405 | 6,873 | R 16,278 |
| **2024** January | 2 | R 564 | R 99 | R 664 | (s) | 2 | 4 | (s) | 15 | 21 | R 685 | 402 | R 1,087 | R 619 | R 1,706 |
| February | 1 | R 432 | R 98 | R 531 | NM | 2 | 5 | (s) | R 13 | 20 | R 551 | 368 | R 919 | R 488 | R 1,406 |
| March | 1 | R 361 | R 85 | R 447 | (s) | 2 | 7 | (s) | 14 | R 22 | R 469 | 376 | R 845 | R 501 | R 1,346 |
| April | 1 | R 257 | R 67 | R 325 | (s) | 2 | 7 | (s) | R 13 | R 22 | R 347 | 366 | R 713 | 477 | R 1,191 |
| May | (s) | R 183 | R 63 | R 246 | NM | 2 | 8 | (s) | R 14 | R 24 | R 271 | 397 | R 668 | 562 | R 1,230 |
| June | 1 | 159 | R 56 | R 216 | (s) | 2 | 8 | (s) | 14 | 24 | R 239 | 431 | R 670 | R 630 | R 1,300 |
| July | 1 | R 152 | R 52 | R 204 | NM | 2 | 8 | (s) | 15 | 25 | R 229 | 470 | R 700 | R 703 | R 1,402 |
| August | 1 | 154 | R 50 | R 205 | (s) | 2 | 8 | (s) | R 14 | R 24 | R 229 | 474 | R 703 | R 699 | R 1,402 |
| September | 1 | R 160 | R 56 | R 216 | (s) | 2 | 7 | (s) | R 13 | R 22 | R 239 | 430 | R 668 | R 595 | R 1,263 |
| October | 1 | R 220 | R 67 | R 288 | NM | 2 | 6 | (s) | R 14 | R 22 | R 310 | 408 | R 718 | R 554 | R 1,272 |
| November | 1 | R 328 | R 73 | R 402 | (s) | 2 | 5 | (s) | 14 | 21 | R 422 | 377 | R 799 | 547 | R 1,346 |
| December | 1 | R 483 | R 90 | R 575 | (s) | 2 | 4 | (s) | R 14 | 21 | R 596 | 394 | R 990 | R 590 | R 1,580 |
| **Total** | 10 | R 3,453 | R 855 | R 4,318 | 1 | 20 | 79 | 1 | R 169 | R 269 | R 4,587 | 4,893 | R 9,480 | R 6,973 | R 16,453 |
| **2025** January | 2 | 630 | 105 | 737 | (s) | 2 | 5 | (s) | 14 | 21 | 758 | 421 | 1,178 | 646 | 1,824 |

[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.

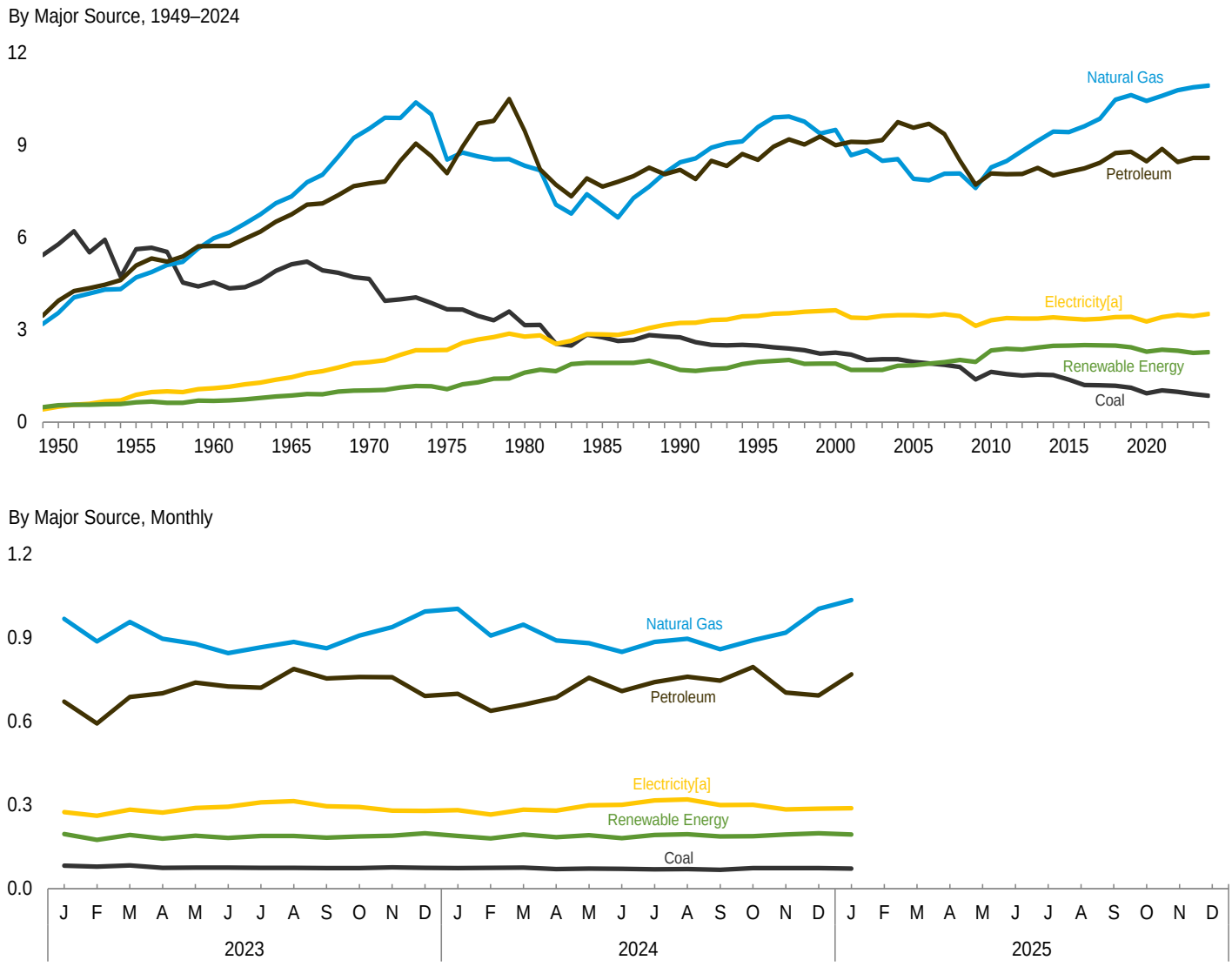
Notes: • Data are estimates, except for coal totals beginning in 2008; hydroelectric power; solar; wind; and electricity sales to ultimate customers beginning in 1979. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note 2, "Classification 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] | Petroleum[f] | Total[g] | Hydroelectric Power[h] | Geothermal | Solar[i] | Wind | Biomass | Total | Total Primary | Electricity[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** |
| **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** | **9,857** | **8,427** | **19,450** | **5** | **4** | **8** | **(s)** | **2,475** | **2,493** | **21,943** | **3,358** | **25,301** | **5,534** | **30,835** |
| **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** | **R 8,784** | **20,511** | **4** | **4** | **11** | **(s)** | **2,416** | **2,435** | **22,946** | **3,420** | **26,366** | **5,349** | **R 31,715** |
| **2020 Total** | **938** | **10,437** | **8,476** | **19,838** | **3** | **4** | **12** | **(s)** | **2,270** | **2,290** | **22,128** | **3,272** | **25,401** | **4,913** | **30,314** |
| **2021 Total** | **1,036** | **10,603** | **R 8,881** | **R 20,471** | **3** | **4** | **14** | **(s)** | **2,336** | **2,357** | **R 22,828** | **3,414** | **R 26,242** | **5,147** | **R 31,390** |
| **2022 Total** | **987** | **10,782** | **8,455** | **20,168** | **3** | **4** | **15** | **(s)** | **2,297** | **2,320** | **22,488** | **3,482** | **25,970** | **5,107** | **31,077** |
| **2023** January | 82 | 968 | 671 | 1,718 | (s) | (s) | 1 | (s) | R 194 | 196 | 1,914 | 274 | 2,188 | 391 | R 2,579 |
| February | 79 | 887 | 592 | 1,556 | (s) | (s) | 1 | (s) | 173 | 175 | 1,731 | 261 | 1,992 | 347 | 2,339 |
| March | 83 | 957 | R 688 | 1,727 | (s) | (s) | 1 | (s) | 189 | 192 | 1,918 | 283 | 2,201 | 387 | 2,588 |
| April | 74 | 896 | R 701 | 1,670 | (s) | (s) | 2 | (s) | 177 | 179 | 1,850 | 273 | 2,123 | 360 | 2,482 |
| May | 75 | 878 | 739 | 1,689 | (s) | (s) | 2 | (s) | 188 | 190 | 1,879 | 289 | 2,168 | 406 | 2,574 |
| June | 75 | 845 | R 725 | 1,643 | (s) | (s) | 2 | (s) | 180 | 182 | 1,825 | 294 | 2,119 | 439 | 2,558 |
| July | 74 | 866 | 721 | 1,657 | (s) | (s) | 2 | (s) | 187 | 189 | 1,846 | 309 | 2,155 | 479 | 2,634 |
| August | 74 | 885 | 788 | 1,744 | (s) | (s) | 2 | (s) | 187 | 189 | R 1,933 | 314 | R 2,247 | 472 | 2,719 |
| September | 73 | 862 | 754 | R 1,684 | (s) | (s) | 1 | (s) | 181 | 183 | 1,867 | 295 | 2,162 | 407 | 2,569 |
| October | 73 | 908 | 759 | 1,739 | (s) | (s) | 1 | (s) | 186 | 187 | 1,926 | 293 | 2,219 | 407 | 2,626 |
| November | 76 | 938 | R 758 | 1,770 | (s) | (s) | 1 | (s) | 189 | 190 | R 1,960 | 280 | R 2,240 | 405 | 2,646 |
| December | 74 | 994 | 691 | 1,754 | (s) | (s) | 1 | (s) | 197 | 198 | 1,952 | 279 | R 2,230 | 416 | R 2,646 |
| **Total** | **913** | **10,883** | **R 8,587** | **R 20,350** | **3** | **4** | **16** | **(s)** | **R 2,227** | **2,251** | **R 22,601** | **3,444** | **R 26,044** | **4,926** | **R 30,970** |
| **2024** January | 73 | R 1,004 | 699 | R 1,775 | (s) | (s) | 1 | (s) | 187 | 189 | R 1,964 | 281 | R 2,245 | R 433 | 2,678 |
| February | 74 | R 908 | 638 | R 1,618 | (s) | (s) | 1 | (s) | 178 | 180 | R 1,798 | 266 | R 2,064 | 353 | R 2,418 |
| March | R 75 | R 947 | 660 | 1,678 | (s) | (s) | 2 | (s) | 192 | 194 | 1,872 | 283 | 2,155 | 377 | 2,532 |
| April | 70 | R 890 | 686 | R 1,642 | (s) | (s) | 2 | (s) | 181 | 184 | R 1,826 | 280 | R 2,106 | 365 | R 2,471 |
| May | 72 | R 881 | 757 | R 1,707 | (s) | (s) | 2 | (s) | 188 | 191 | R 1,898 | 299 | R 2,197 | R 424 | R 2,621 |
| June | 71 | R 849 | 709 | R 1,624 | (s) | (s) | 2 | (s) | 179 | 181 | R 1,805 | 301 | R 2,106 | 440 | R 2,547 |
| July | 69 | R 885 | 741 | R 1,693 | (s) | (s) | 2 | (s) | 189 | 192 | R 1,884 | 316 | R 2,201 | R 473 | R 2,673 |
| August | 70 | R 896 | 760 | R 1,722 | (s) | (s) | 2 | (s) | 193 | 195 | R 1,917 | 320 | R 2,237 | 471 | R 2,708 |
| September | R 67 | R 859 | 746 | R 1,669 | (s) | (s) | 2 | (s) | 184 | 187 | 1,856 | 300 | 2,156 | 415 | R 2,570 |
| October | 73 | R 891 | 795 | R 1,758 | (s) | (s) | 1 | (s) | 186 | 188 | R 1,946 | 301 | R 2,248 | R 409 | R 2,656 |
| November | 73 | R 918 | 703 | R 1,691 | (s) | (s) | 1 | (s) | 192 | 194 | R 1,885 | 284 | R 2,169 | 413 | R 2,582 |
| December | 73 | 1,004 | 693 | 1,766 | (s) | (s) | 1 | (s) | 196 | 198 | 1,964 | 287 | 2,251 | 429 | 2,680 |
| **Total** | **R 861** | **R 10,933** | **R 8,586** | **R 20,344** | **3** | **4** | **18** | **(s)** | **2,246** | **2,271** | **R 22,615** | **3,519** | **R 26,134** | **R 5,015** | **R 31,149** |
| **2025** January | 72 | 1,035 | 769 | 1,875 | (s) | (s) | 1 | (s) | 192 | 194 | 2,069 | 288 | 2,357 | 442 | 2,799 |

[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.

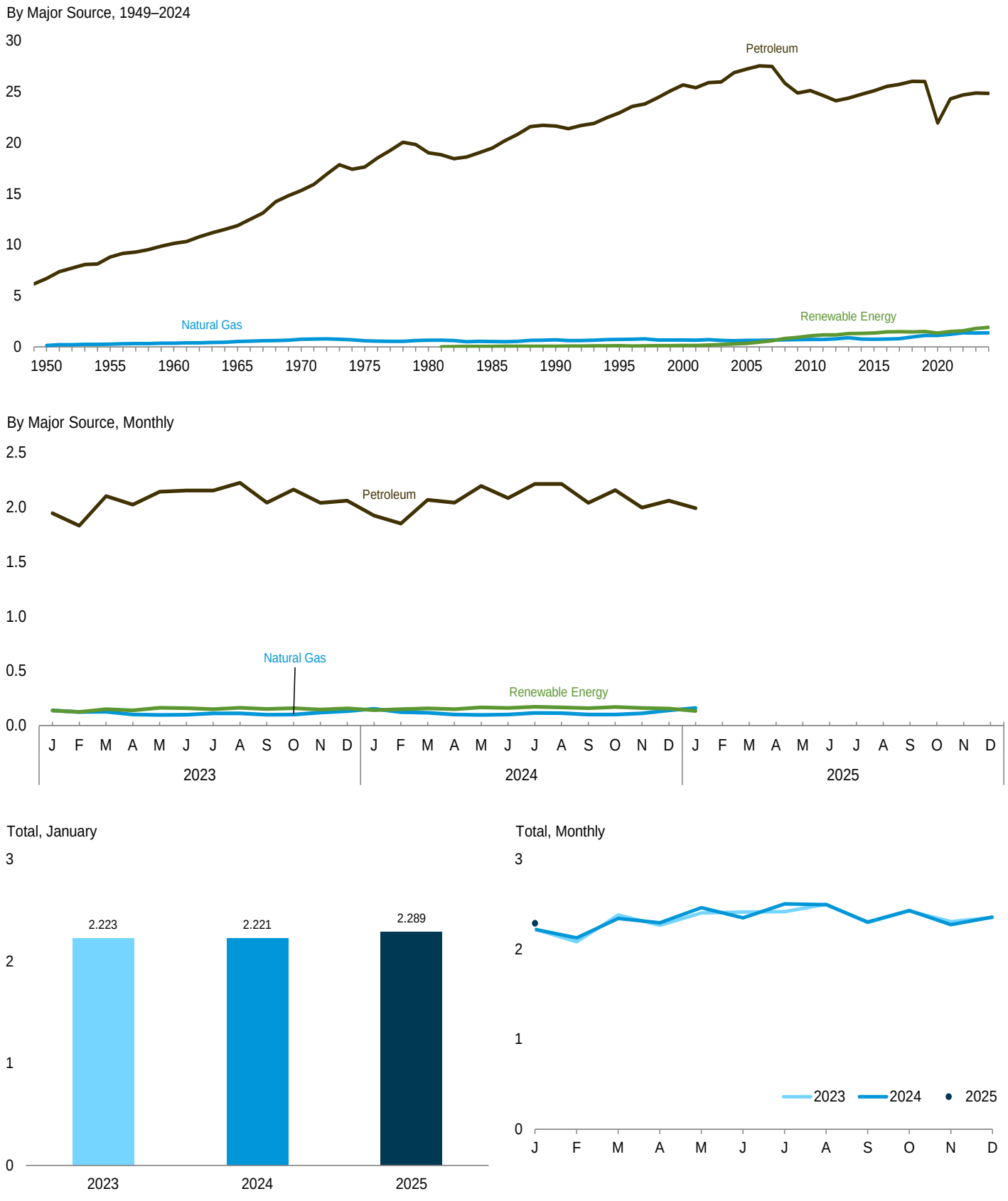
Notes: • Data are estimates, except for coal totals; hydroelectric power in 1949–1978 and 1989 forward; solar; wind; and electricity sales to ultimate customers. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note 2, "Classification 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] | Total |
| | Coal | Natural Gas[d] | Petroleum[e] | Total | Biomass | Total Primary | Electricity[f] | Total End Use | | |
| **1950 Total** | 1,564 | 130 | 6,690 | 8,383 | NA | 8,383 | 23 | 8,407 | 62 | 8,469 |
| **1955 Total** | 421 | 254 | 8,799 | 9,474 | NA | 9,474 | 20 | 9,494 | 45 | 9,539 |
| **1960 Total** | 75 | 359 | 10,125 | 10,560 | NA | 10,560 | 10 | 10,570 | 21 | 10,591 |
| **1965 Total** | 16 | 517 | 11,866 | 12,399 | NA | 12,399 | 10 | 12,409 | 20 | 12,428 |
| **1970 Total** | 7 | 745 | 15,311 | 16,062 | NA | 16,062 | 11 | 16,073 | 22 | 16,094 |
| **1975 Total** | 1 | 595 | 17,615 | 18,211 | NA | 18,211 | 10 | 18,221 | 21 | 18,241 |
| **1980 Total** | (h) | 650 | 19,009 | 19,659 | NA | 19,659 | 11 | 19,670 | 23 | 19,694 |
| **1985 Total** | (h) | 519 | 19,472 | 19,992 | 50 | 20,042 | 14 | 20,056 | 29 | 20,084 |
| **1990 Total** | (h) | 679 | 21,626 | 22,305 | 60 | 22,366 | 16 | 22,382 | 33 | 22,415 |
| **1995 Total** | (h) | 724 | 22,920 | 23,644 | 112 | 23,757 | 17 | 23,774 | 35 | 23,808 |
| **2000 Total** | (h) | 672 | 25,649 | 26,321 | 135 | 26,456 | 18 | 26,474 | 38 | 26,512 |
| **2005 Total** | (h) | 624 | 27,217 | 27,840 | 339 | 28,179 | 26 | 28,205 | 52 | 28,257 |
| **2010 Total** | (h) | 719 | 25,100 | 25,819 | 1,075 | 26,894 | 26 | 26,920 | 50 | 26,970 |
| **2011 Total** | (h) | 734 | 24,623 | 25,357 | 1,166 | 26,523 | 26 | 26,549 | 48 | 26,598 |
| **2012 Total** | (h) | 780 | 24,108 | 24,888 | 1,169 | 26,057 | 25 | 26,082 | 45 | 26,127 |
| **2013 Total** | (h) | 887 | 24,361 | 25,248 | 1,292 | 26,541 | 26 | 26,567 | 47 | 26,614 |
| **2014 Total** | (h) | 760 | 24,728 | 25,487 | 1,314 | 26,802 | 26 | 26,828 | 47 | 26,875 |
| **2015 Total** | (h) | 745 | 25,086 | 25,831 | 1,351 | 27,182 | 26 | 27,208 | 45 | 27,253 |
| **2016 Total** | (h) | 757 | 25,515 | 26,272 | 1,469 | 27,741 | 26 | 27,767 | 43 | 27,810 |
| **2017 Total** | (h) | 799 | 25,707 | 26,506 | 1,474 | 27,980 | 26 | 28,005 | 42 | 28,048 |
| **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 | R 28,603 | 26 | R 28,629 | 41 | R 28,670 |
| **2020 Total** | (h) | 1,111 | 21,930 | 23,041 | 1,355 | 24,397 | 22 | 24,419 | 34 | 24,453 |
| **2021 Total** | (h) | 1,232 | R 24,292 | R 25,524 | 1,496 | R 27,020 | 22 | R 27,041 | 33 | R 27,074 |
| **2022 Total** | (h) | 1,367 | 24,681 | 26,048 | 1,573 | 27,621 | 23 | 27,643 | 33 | 27,676 |
| **2023** January | (h) | 138 | R 1,944 | R 2,082 | R 136 | R 2,218 | 2 | R 2,220 | 3 | R 2,223 |
| February | (h) | 124 | R 1,829 | R 1,953 | 124 | R 2,077 | 2 | R 2,079 | 3 | R 2,081 |
| March | (h) | 126 | R 2,100 | R 2,226 | R 149 | R 2,375 | 2 | R 2,377 | 3 | R 2,380 |
| April | (h) | 101 | R 2,022 | R 2,123 | R 139 | R 2,262 | 2 | R 2,263 | 2 | R 2,266 |
| May | (h) | 96 | R 2,141 | R 2,237 | R 162 | R 2,399 | 2 | R 2,400 | 3 | R 2,403 |
| June | (h) | 98 | R 2,151 | R 2,250 | 158 | R 2,408 | 2 | R 2,410 | 3 | R 2,413 |
| July | (h) | 111 | R 2,152 | R 2,263 | 149 | R 2,412 | 2 | R 2,414 | 3 | R 2,417 |
| August | (h) | 111 | R 2,222 | R 2,333 | R 162 | R 2,495 | 2 | R 2,497 | 3 | R 2,500 |
| September | (h) | 99 | R 2,040 | R 2,139 | R 152 | R 2,291 | 2 | R 2,293 | 3 | R 2,296 |
| October | (h) | 101 | R 2,161 | R 2,262 | 159 | R 2,421 | 2 | R 2,423 | 3 | R 2,426 |
| November | (h) | 118 | R 2,038 | R 2,156 | R 146 | R 2,302 | 2 | R 2,304 | 3 | R 2,306 |
| December | (h) | 132 | R 2,059 | R 2,191 | 157 | R 2,348 | 2 | R 2,350 | 3 | R 2,353 |
| **Total** | (h) | 1,356 | R 24,859 | R 26,214 | R 1,792 | R 28,006 | 23 | R 28,030 | 34 | R 28,063 |
| **2024** January | (h) | R 153 | R 1,922 | R 2,075 | R 141 | R 2,215 | 2 | R 2,217 | 3 | R 2,221 |
| February | (h) | 122 | R 1,850 | R 1,973 | 149 | R 2,122 | 2 | R 2,124 | 2 | R 2,126 |
| March | (h) | 116 | R 2,065 | R 2,181 | 156 | R 2,337 | 2 | R 2,339 | 3 | R 2,342 |
| April | (h) | R 100 | R 2,040 | R 2,140 | 150 | R 2,290 | 2 | R 2,292 | 2 | R 2,294 |
| May | (h) | 97 | R 2,194 | R 2,292 | 165 | R 2,457 | 2 | R 2,459 | 3 | R 2,462 |
| June | (h) | 101 | R 2,082 | R 2,183 | R 161 | R 2,343 | 2 | R 2,345 | 3 | R 2,348 |
| July | (h) | 114 | R 2,212 | R 2,326 | 172 | R 2,498 | 2 | R 2,500 | 3 | R 2,504 |
| August | (h) | R 113 | R 2,212 | R 2,324 | 165 | R 2,490 | 2 | R 2,492 | 3 | R 2,495 |
| September | (h) | 101 | R 2,039 | R 2,139 | R 158 | R 2,297 | 2 | R 2,299 | 3 | R 2,302 |
| October | (h) | 101 | R 2,156 | R 2,257 | R 169 | R 2,426 | 2 | R 2,427 | 3 | R 2,430 |
| November | (h) | 112 | R 1,995 | R 2,107 | 160 | R 2,267 | 2 | R 2,269 | 3 | R 2,272 |
| December | (h) | 138 | R 2,058 | R 2,196 | R 155 | R 2,351 | 2 | R 2,353 | 3 | R 2,356 |
| **Total** | (h) | R 1,367 | R 24,825 | R 26,192 | R 1,901 | R 28,093 | 24 | R 28,117 | 34 | R 28,151 |
| **2025** January | (h) | 160 | 1,990 | 2,151 | 133 | 2,283 | 2 | 2,285 | 3 | 2,289 |

[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.

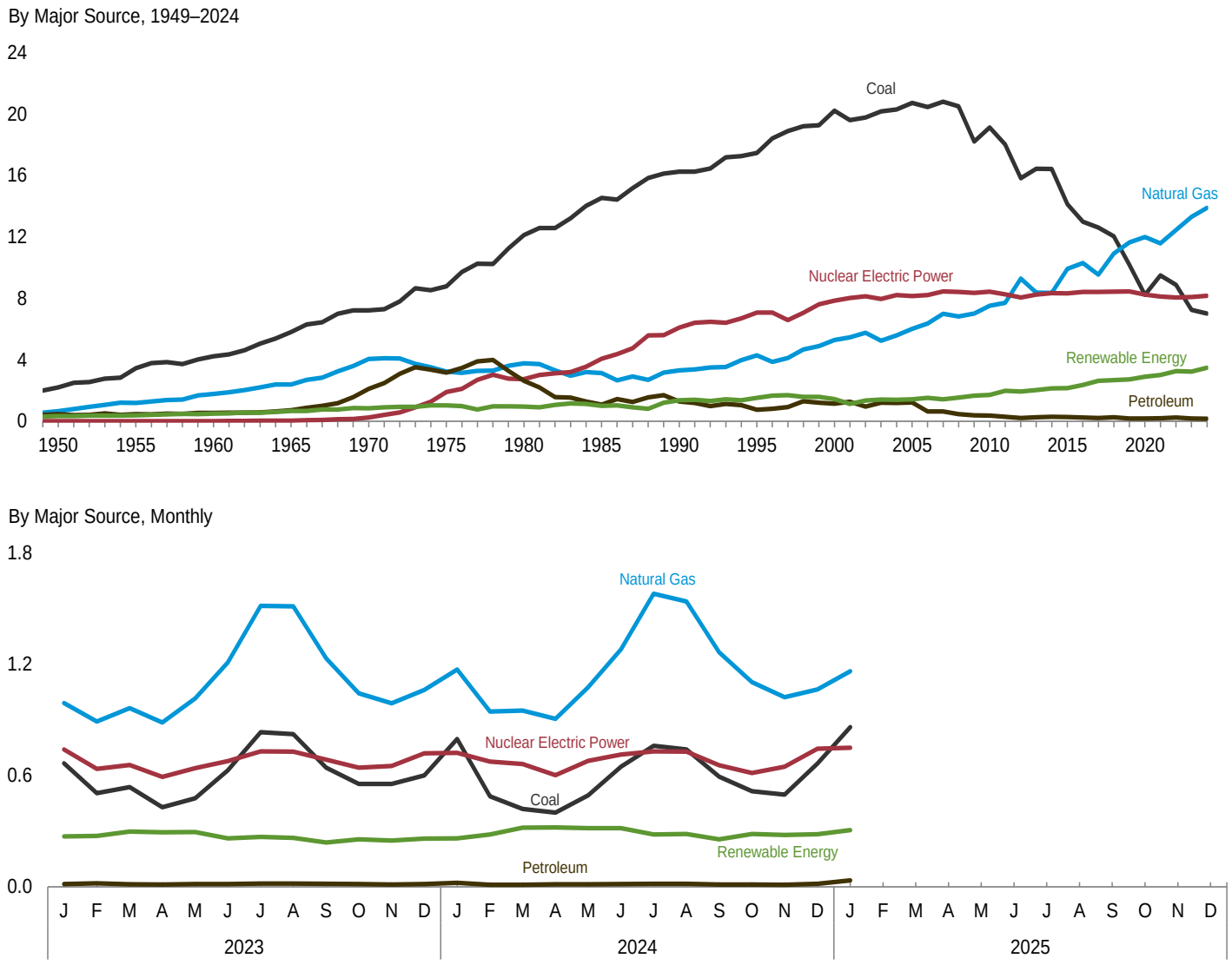
R=Revised. NA=Not available.

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** |
| **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** | **1,152** | **428** | **2,904** | **161** | **31,730** |
| **2021 Total** | **9,498** | **11,583** | **205** | **21,285** | **8,131** | **854** | **53** | **391** | **1,289** | **426** | **3,014** | **134** | **32,564** |
| **2022 Total** | **8,885** | **12,459** | **244** | **21,589** | **8,061** | **865** | **55** | **487** | **1,481** | **374** | **3,263** | **141** | **33,053** |
| **2023** January | 666 | 991 | 15 | 1,672 | 741 | 77 | 5 | 26 | 131 | 32 | 271 | 11 | 2,695 |
| February | 504 | 891 | 18 | 1,413 | 636 | 68 | 4 | 32 | 141 | 28 | 274 | 7 | 2,329 |
| March | 538 | 963 | 13 | 1,514 | 657 | 72 | 5 | 41 | 149 | 30 | 297 | 9 | 2,477 |
| April | 429 | 886 | 12 | 1,328 | 592 | 67 | 5 | 51 | 146 | 25 | 294 | 7 | 2,220 |
| May | 477 | 1,016 | 14 | 1,508 | 639 | 94 | 5 | 59 | 110 | 28 | 295 | 9 | 2,451 |
| June | 628 | 1,210 | 14 | 1,852 | 677 | 73 | 4 | 61 | 94 | 29 | 261 | 6 | 2,796 |
| July | 833 | 1,515 | 17 | 2,365 | 730 | 75 | 4 | 64 | 96 | 30 | 269 | 4 | 3,369 |
| August | 823 | 1,512 | 17 | 2,352 | 729 | 72 | 4 | 60 | 97 | 30 | 264 | 5 | 3,350 |
| September | 642 | 1,232 | 16 | 1,889 | 685 | 57 | 4 | 53 | 97 | 26 | 238 | (s) | 2,813 |
| October | 554 | 1,043 | 14 | 1,611 | 642 | 53 | 5 | 48 | 123 | 26 | 255 | 1 | 2,509 |
| November | 554 | 990 | 12 | 1,555 | 651 | 58 | 5 | 35 | 124 | 27 | 249 | 2 | 2,457 |
| December | 600 | 1,062 | 14 | 1,676 | 720 | 65 | 5 | 31 | 130 | 30 | 260 | 5 | 2,660 |
| **Total** | **7,247** | **13,314** | **176** | **20,737** | **8,099** | **832** | **56** | **562** | **1,436** | **342** | **3,228** | **65** | **32,128** |
| **2024** January | [R]797 | 1,171 | 21 | [R]1,989 | 722 | 74 | 5 | 33 | 119 | 30 | 261 | 6 | [R]2,978 |
| February | [R]487 | 945 | 11 | [R]1,443 | 675 | 68 | 4 | 42 | 142 | 25 | 282 | 1 | [R]2,401 |
| March | [R]419 | 950 | 10 | [R]1,379 | 662 | 79 | 4 | 54 | 156 | 26 | 319 | -1 | [R]2,359 |
| April | [R]400 | 906 | 13 | [R]1,318 | 602 | 66 | 5 | 65 | 162 | 24 | 320 | -2 | [R]2,240 |
| May | [R]493 | 1,076 | 13 | [R]1,582 | 679 | 77 | 4 | 75 | 132 | 27 | 316 | (s) | [R]2,577 |
| June | [R]647 | 1,281 | 14 | [R]1,942 | 713 | 72 | 4 | 82 | 130 | 27 | 316 | 5 | [R]2,976 |
| July | [R]760 | 1,580 | 16 | [R]2,356 | 730 | 72 | 5 | 82 | 95 | 28 | 282 | 8 | [R]3,377 |
| August | [R]741 | 1,538 | 16 | [R]2,295 | 729 | 73 | 4 | 82 | 98 | 29 | 285 | 7 | [R]3,316 |
| September | [R]594 | 1,265 | 12 | [R]1,871 | 655 | 57 | 4 | 69 | 99 | 26 | 255 | 7 | [R]2,788 |
| October | [R]515 | 1,103 | 12 | [R]1,630 | 614 | 54 | 4 | 66 | 137 | 24 | 285 | 6 | [R]2,536 |
| November | [R]497 | 1,022 | 11 | [R]1,530 | 647 | 62 | 4 | 47 | 140 | 25 | 279 | 2 | [R]2,457 |
| December | [R]665 | 1,064 | 16 | [R]1,746 | 744 | 69 | 5 | 44 | 138 | 27 | 283 | 7 | [R]2,779 |
| **Total** | **[R]7,015** | **13,900** | **166** | **[R]21,081** | **8,173** | **822** | **53** | **741** | **1,546** | **319** | **3,482** | **47** | **[R]32,784** |
| **2025** January | 861 | 1,162 | 34 | 2,057 | 750 | 72 | 5 | 52 | 149 | 28 | 306 | 10 | 3,123 |

[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 | 6.2 | 29.9 | 20.4 | 960.1 |
| 2014 | 6.3 | 730.6 | 18.5 | 29.4 | 17.0 | 9.5 | 6.2 | 15.6 | 8.3 | 43.0 | 6.3 | 31.4 | 20.6 | 942.6 |
| 2015 | 6.2 | 734.5 | 17.9 | 30.1 | 16.3 | 9.0 | 6.8 | 16.2 | 8.4 | 44.0 | 6.0 | 30.7 | 19.8 | 945.8 |
| 2016 | 6.2 | 709.2 | 18.1 | 28.9 | 15.8 | 8.7 | 6.4 | 15.6 | 8.5 | 43.9 | 6.0 | 30.3 | 19.5 | 917.2 |
| 2017 | 6.3 | 707.9 | 19.2 | 28.8 | 15.0 | 8.8 | 5.9 | 15.5 | 8.6 | 43.7 | 6.6 | 29.1 | 19.7 | 915.1 |
| 2018 | 6.1 | 690.6 | 16.8 | 27.3 | 15.6 | 10.0 | 6.1 | 16.2 | 8.4 | 45.5 | 7.0 | 29.7 | 18.8 | 898.2 |
| 2019 | 5.9 | 682.1 | 16.2 | 27.2 | 15.4 | 9.8 | 6.2 | 15.8 | 8.5 | 46.0 | 7.1 | 31.9 | 19.1 | 891.2 |
| 2020 | 5.4 | 648.8 | 17.1 | 26.4 | 14.4 | 9.5 | 5.5 | 14.6 | 8.1 | 46.1 | 6.4 | 30.6 | 17.0 | 850.0 |
| 2021 | 6.4 | 650.7 | 15.9 | 27.5 | 13.2 | 9.1 | 5.4 | 14.5 | 8.1 | 45.5 | 6.8 | 30.3 | 17.6 | 851.0 |
| 2022 | 8.0 | 622.5 | 16.5 | 26.3 | 12.8 | 9.6 | 6.3 | 14.5 | 8.5 | 48.3 | 6.6 | 30.8 | 17.2 | 827.6 |
| 2023 | 7.9 | 605.1 | 15.8 | 27.8 | 12.7 | 9.6 | 5.8 | 14.0 | 7.9 | 48.4 | 8.8 | 30.8 | 17.1 | 811.8 |

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

[b] U.S. Department of Homeland Security.

[c] General Services Administration.

[d] U.S. Department of Health and Human Services.

[e] National Aeronautics and Space Administration.

[f] Includes all U.S. government agencies not separately displayed. See http://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 | 140.8 | 424.0 | 1.9 | 46.6 | 614.0 | 2.8 | 184.7 | 21.8 | 960.1 |
| 2014 | 13.5 | 125.6 | .3 | 134.6 | 414.3 | 1.8 | 44.9 | 595.9 | 3.6 | 182.1 | 21.9 | 942.6 |
| 2015 | 12.6 | 122.2 | .3 | 135.0 | 418.9 | 1.8 | 46.8 | 602.8 | 3.0 | 184.3 | 20.9 | 945.8 |
| 2016 | 10.2 | 115.4 | .3 | 130.5 | 403.9 | 1.7 | 46.5 | 583.0 | 2.7 | 184.5 | 21.4 | 917.2 |
| 2017 | 9.1 | 115.1 | .3 | 135.1 | 400.1 | 1.5 | 46.4 | 583.5 | 2.7 | 181.7 | 23.0 | 915.1 |
| 2018 | 6.2 | 125.8 | .3 | 129.4 | 383.2 | 1.7 | 45.5 | 560.0 | 2.6 | 180.0 | 23.6 | 898.2 |
| 2019 | 5.0 | 131.7 | .3 | 127.2 | 376.8 | 1.9 | 46.6 | 552.8 | 2.1 | 178.2 | 21.5 | 891.2 |
| 2020 | 5.2 | 128.3 | .2 | 131.0 | 345.0 | 1.7 | 43.3 | 521.3 | 1.2 | 173.7 | 20.3 | 850.0 |
| 2021 | 5.3 | 128.4 | .4 | 123.9 | 352.0 | 1.7 | 44.6 | 522.6 | 1.3 | 173.2 | 20.3 | 851.0 |
| 2022 | 3.5 | 128.3 | .2 | 127.9 | 326.9 | 1.6 | 44.4 | 501.1 | 1.2 | 172.1 | 21.6 | 827.6 |
| 2023 | 4.0 | 131.7 | .2 | 125.5 | 311.4 | 1.8 | 46.7 | 485.5 | 1.1 | 170.3 | 19.3 | 811.8 |

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

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

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

[d] Liquefied petroleum gases, primarily propane.

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

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

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

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

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

Sources: U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, Federal Energy Management Program. See http://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 are from the conversion of heat energy into mechanical energy to turn electric generators at fossil fuel, biomass, and nuclear plants. These losses are a necessary feature of the thermodynamic cycles of these power plants (steam-electric, gas-electric, and combined-cycle). Overall, about two thirds of total energy input is lost in conversion. In addition to conversion losses, other losses include power plant use of electricity, transmission and distribution of electricity from power plants to end-use consumers (also called "line losses"), and unaccounted-for electricity. Currently, of electricity generated, approximately 5% is lost in plant use and 7% is lost in transmission and distribution. Total losses are allocated to the end-use sectors in proportion to each sector's share of total electricity sales.

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

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

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

## Table 2.2 Sources

### *Coal*

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

### *Natural Gas*

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

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

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

### *Petroleum*
1949 forward: Table 3.8a.

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

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

### *Renewable Energy*
1949 forward: Table 10.2a.

### *Total Primary Energy Consumption*
1949 forward: Residential sector total primary energy consumption is the sum of the residential sector consumption values for fossil fuels and renewable energy.

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

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

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

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

## Table 2.3 Sources

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

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

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

### *Petroleum*
1949–1992: Table 3.8a.

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

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

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

### *Renewable Energy*
1949 forward: Table 10.2a.

### *Total Primary Energy Consumption*
1949 forward: Commercial sector total primary energy consumption is the sum of the commercial sector consumption values for fossil fuels and renewable energy.

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

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

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

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

## Table 2.4 Sources

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

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

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

### *Petroleum*
1949–1992: Table 3.8b.

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

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

### *Coal Coke Net Imports*
1949 forward: Coal coke net imports are equal to coal coke imports from Table 1.4a minus coal coke exports from Table 1.4b.

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

### *Renewable Energy*
1949 forward: Table 10.2b.

### *Total Primary Energy Consumption*
1949 forward: Industrial sector total primary energy consumption is the sum of the industrial sector consumption values for fossil fuels and renewable energy.

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

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

### *Electrical System Energy Losses*
1949 forward: Total electrical system energy losses are equal to electric power sector total primary energy consumption

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

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

### *Total Energy Consumption*

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

## Table 2.5 Sources

### *Coal*

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

### *Natural Gas*

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

### *Petroleum*

1949–1992: Table 3.8c.

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

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

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

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

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

### *Fossil Fuels Total*

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

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

### *Renewable Energy*

1981 forward: Table 10.2b.

### *Total Primary Energy Consumption*

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

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

### *Electricity Sales to Ultimate Customers*

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

### *End-Use Energy Consumption*

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

### *Electrical System Energy Losses*

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

### *Total Energy Consumption*

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

## Table 2.6 Sources

### *Coal*

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

### *Natural Gas*

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

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

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

### *Petroleum*
1949 forward: Table 3.8c.

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

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

### *Renewable Energy*
1949 forward: Table 10.2c.

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

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