Table CT6. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2021, Hawaii

| Coal Matural Coal | | | | Petroleum | | | | | | 1 | Biomass | | | | | | | |
|--|--------------|----------|-----------------------|------------------|------------------|------------|--------------|--------------------|----------------|----------------|----------------------------------|-----------------------------|----------|----------------------|--------------------------|----------------------------|--------------|----------------------|
| Thousand Barrels | | Coal | | | HGL ^b | | | Other ^d | Total | | | | | Solar ^{f,i} | Electricity ^j | | Electrical | |
| 1,000 | Year | | Billion Cubic Feet | Thousand Barrels | | | | | | Million kWh | Wood and Waste ^{f,g} | od and and Co- Geo- Million | | | End Use f,k | System Energy Losses | Total f,k | |
| 1980 O | | 0 | | 554 | 43 | 83 | | 649 | 2,367 | | | | | NA | 465 | | | |
| 1980 O | | | | 635 701 | 82 386 | 76 49 | | | | | | | | | | | | |
| 1985 48 | 1975 | Ö | Ō | 603 | 472 | 53 | 1,346 | 1.174 | 3.648 | 71 | | | | NA | 2.538 | | | |
| 1980 28 0 775 15 133 17.40 2.817 5.70 | | | 0 | 1,369 458 | | | | 1.083 | 5,135 2,997 | | | | | | | | | |
| 133 | 1990 | 28 | Ö | 725 | 15 | 133 | 1,740 | 2,617 | 5.231 | 57 | | | | (s) | 3,734 | | | |
| 133 | | | 0 | 548 473 | | | 1,024 438 | 2,618 2,566 | 5,643 3,685 | | | | | | | | | |
| 2003 | 2001 | 113 | . į | 473 | 61 | 122 | 8 | 2.849 | 3,513 | 50 | | | | (s) | 3,790 | | | |
| 2004 | | 50 52 | | 459 439 | 247 94 | 145 137 | | 2,481 2,699 | 3,779 | 60 50 | | | | (s) (s) | | | | |
| 2008 99 (s) 347 5 247 434 2.335 3.367 39 0 3.804 2019 81 (s) 44 4 4147 454 3.24 46 2.395 47, 415 32 0 3.665 2011 58 (s) 346 32 44 4147 454 3.24 68 42.33 49 0 3.665 2011 58 (s) 342 84 4147 454 3.24 68 42.33 49 0 3.665 2012 50 (s) 376 0 14 40 326 3.055 3.837 59 0 3.665 2013 61 (s) 325 8 8 1 134 283 3.243 3.996 44 0 3.665 2013 61 (s) 325 8 8 1 134 283 3.243 3.996 44 0 3.665 2013 61 (s) 325 8 8 1 134 283 3.243 3.996 44 0 3.665 2015 61 (s) 40 10 10 10 10 10 10 10 10 10 10 10 10 10 | 2004 | 53 | (s) | 407 | 67 | 169 | 395 | 2 667 | 3,704 | 37 | | | | (s) | 3,937 | | | |
| 2008 99 (s) 347 5 247 434 2.335 3.367 39 0 3.804 2019 81 (s) 44 4 4147 454 3.24 46 2.395 47, 415 32 0 3.665 2011 58 (s) 346 32 44 4147 454 3.24 68 42.33 49 0 3.665 2011 58 (s) 342 84 4147 454 3.24 68 42.33 49 0 3.665 2012 50 (s) 376 0 14 40 326 3.055 3.837 59 0 3.665 2013 61 (s) 325 8 8 1 134 283 3.243 3.996 44 0 3.665 2013 61 (s) 325 8 8 1 134 283 3.243 3.996 44 0 3.665 2013 61 (s) 325 8 8 1 134 283 3.243 3.996 44 0 3.665 2015 61 (s) 40 10 10 10 10 10 10 10 10 10 10 10 10 10 | | 59 59 | (S) | 512 456 | 41 | 141 | | 2,859 2,743 | 4,298 4 194 | | | | | (s) | | | | |
| 2009 88 (s) 404 32 234 466 2,995 4,131 35 0 3,683 2010 61 (s) 326 152 152 153 153 153 154 155 154 155 155 155 155 155 155 155 | 2007 | 72 | 1 | 451 | 58 | 244 | 428 | 2.663 | 3,844 | 38 | | | | Ö | 3,864 | | | |
| 2011 58 (s) 342 44 147 454 3,246 4,233 49 0 3,665 2012 58 (s) 375 R0 140 328 3,526 3,526 4,233 49 0 3,665 2014 61 (s) 392 R5 171 267 3,011 3,886 52 0 3,680 2015 50 (s) 392 R5 171 267 3,011 3,886 52 0 3,680 2016 12 (s) 163 R8 281 408 2,835 R3,989 59 (s) 3,696 2016 12 (s) 163 R8 281 408 2,835 R3,919 59 (s) 3,696 2016 12 (s) 163 R8 281 408 2,835 R3,919 59 2 3,722 2017 10 (s) 3,696 2016 12 (s) 163 R8 281 408 2,835 R3,919 59 3,322 2017 10 (s) 3,696 38 3,322 3,696 38 3,322 3,696 38 3,322 3,696 38 3,322 3,696 38 3,322 3,696 38 3,322 3,696 38 3,322 3,696 38 3,322 3,696 38 3,322 3,696 38 3,322 3,696 38 4,322 2,696 38 4,326 3 2,696 38 4,326 3 2,696 38 4,326 3 2,696 38 4,326 3 2,696 38 4,326 3 2,696 38 4,326 3 2,696 38 4,326 3 2,696 38 | | 99 | | | 32 | 247 | 434 466 | 2,335 2,995 | 3,367 4 131 | | | | | 0 | | | | |
| 2012 50 (s) 376 p 140 326 3.055 3.897 59 0 3.662 2015 61 (s) 325 p 5 p 5 p 5 p 5 p 5 p 5 p 5 p 5 p 5 p | 2010 | 61 | (s) | 326 | 52 | 143 | 451 | 3,244 | R 4.215 | 42 | | | | Õ | 3,672 | | | |
| 2014 61 (s) 392 F5 171 257 3,011 3,836 52 0 3,690 2015 50 (s) 321 R7 284 298 3,001 R3,919 59 (s) 3,696 2016 12 (s) 161 R6 281 408 2,850 R3,919 59 2 3,723 2017 10 (s) 261 86 281 408 2,850 R3,685 37 2 3,723 2018 0 (s) 380 27 293 396 R2,990 3,685 34 4 3,635 2019 0 (s) 380 27 293 396 R2,990 3,487 59 4 3,635 2020 0 (s) 385 23 296 0 R1,794 R2,459 70 4 3,635 2021 0 (s) 285 38 267 463 1,649 2,701 72 4 3,337 2021 20 20 20 20 285 38 267 463 1,649 2,701 72 4 3,327 2020 20 20 20 20 20 20 | | 58 50 | (S) | 342 376 | 44 | 147 140 | 454 326 | 3,246 3,055 | 4,233 3,897 | | | | | 0 | | | | |
| 2015 50 (s) 321 | 2013 | 61 | (s) | 325 | Rž | 138 | 283 | 3,243 | 3,992 | 44 | | | | Ö | 3,623 | | | |
| 2017 0 (s) 311 56 283 514 2,850 4,015 37 3 3,6113 2018 0 (s) 263 106 292 445 2,398 3,505 34 3 3,5193 2019 0 (s) 380 27 293 396 P2,390 3,487 59 4 3,635 2020 0 (s) 345 23 296 306 P2,390 3,487 59 4 3,635 2021 0 (s) 285 38 267 463 1,649 2,701 72 4 3,635 2021 0 (s) 285 38 267 463 1,649 2,701 72 4 3,327 2021 0 (s) 285 38 267 463 1,649 2,701 72 4 3,327 2021 0 (s) 285 38 267 463 1,649 2,701 72 4 3,327 2021 0 (s) 285 38 267 463 1,649 2,701 72 4 3,327 2021 0 (s) 285 38 267 463 1,649 2,701 72 4 3,327 2021 0 (s) 285 38 267 463 1,649 2,701 72 4 3,327 2021 0 (s) 285 38 267 463 1,649 2,701 72 4 3,327 2021 0 (s) 285 38 267 463 1,649 2,701 72 4 3,327 2021 0 (s) 285 38 267 463 1,649 2,701 72 4 3,327 4 3,327 2021 0 (s) 285 38 267 463 1,649 2,701 72 4 3,327 4 3,327 2021 0 (s) 285 38 267 463 1,649 2,701 72 4 3,327 4 3,327 4 3,327 4 3,327 4 3,327 4 3,327 4 3,327 4 3,327 4 3,327 4 3,327 4 3,327 4 3,327 4 3,327 4 3,327 4 3,327 4 3,327 4 3,327 4 3,327 | | 50 | (S) | 321 | R 7 | 1/1 284 | 257 298 | 3,008 | R 3.919 | 52 59 | | | | | | | | |
| 2018 0 (s) 263 106 292 445 2,398 3,505 34 3 3,593 2019 0 (s) 380 27 293 396 78,2390 70 4 3,255 2020 0 (s) 345 23 296 0 78,1794 72,459 70 4 3,255 2021 0 (s) 285 38 267 463 1,649 2,701 72 4 3,255 Trillion Btu Trillion Btu 1960 0.0 0.0 3.2 0.2 0.4 6.5 3.9 14.2 0.0 0.0 NA NA NA NA 1.6 15.8 1995 0.0 0.0 3.7 0.3 0.4 10.8 6.1 21.3 0.9 0.2 NA NA NA NA 5.9 29.8 1970 0.0 0.0 3.5 1.7 0.3 8.5 7.3 21.2 0.7 0.3 NA NA NA NA 8.9 29.8 1980 0.0 0.0 3.5 1.7 0.3 8.5 7.3 21.2 0.7 0.3 NA NA NA NA NA 10.3 59. 29.8 1980 0.0 0.0 0.0 8.0 3.7 0.3 9.4 7.3 28.6 0.7 11.9 NA NA NA NA 10.3 51.5 1980 0.7 0.0 2.7 (s) 0.5 8.4 6.8 18.5 0.7 11.9 NA NA NA NA 10.3 51.5 1990 0.7 0.0 4.2 0.1 0.7 10.9 16.0 31.9 0.6 18.2 0.0 (s) (s) (s) 12.7 64.1 20.0 1990 0.1 0.0 (s) (s) (s) 12.7 64.1 20.0 1990 0.1 0.0 (s) 1.3 0.4 10.9 10.9 16.0 31.9 0.6 18.2 0.0 (s) (s) 1.2 0.0 (s) 1.3 0.0 | 2016 | 12 | (s) | 163 | R ₈ | 281 | 408 | 2,835 | R 3.695 | 38 | | | | 2 | 3,722 | | | |
| 2019 0 (s) 380 27 293 396 F 2,390 3,487 59 4 3,263 | | 0 | | 311 263 | 56 106 | 283 292 | 514 445 | 2.398 | 4,015 3,505 | | | | | | | | | |
| Trillion Btu Tril | 2019 | 0 | (s) | 380 | 27 | 293 | 396 | R 2.390 | 3.487 | 59 | | | | 4 | 3,635 | | | |
| 1960 | | | | 285 | 38 | 296 267 | | 1,649 | 2,701 | 70 72 | == | | | 4 | | | == | |
| 1970 0.0 0.0 4.1 1.4 0.3 10.5 6.6 22.9 0.9 0.2 NA NA NA S.9 29.8 1975 0.0 0.0 0.3 5.5 1.7 0.3 8.5 7.3 21.2 0.7 0.3 NA NA NA NA NA NA S.9 29.8 1980 0.0 0.0 0.0 8.0 3.7 0.3 9.4 7.3 28.6 0.7 11.9 NA NA NA NA NA NA 10.3 51.5 1.5 1.5 1.5 1.1 0.0 2.7 (s) 0.5 8.4 6.8 18.5 0.7 14.0 0.0 NA NA NA NA 10.3 51.5 1.5 1.5 1.5 1.5 1.1 0.0 2.7 (s) 0.5 8.4 6.8 18.5 0.7 14.0 0.0 NA NA NA 10.7 45.0 1.990 0.7 0.0 4.2 0.1 0.7 10.9 16.0 31.9 0.6 18.2 0.0 (s) (s) (s) 12.7 46.1 1.995 4.1 0.0 3.2 4.2 1.3 6.4 16.1 31.2 0.7 13.3 0.0 (s) (s) (s) 13.0 62.2 1.9 1.0 1.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | | | | | | | | | | | | | | | | | | |
| 1970 0.0 0.0 4.1 1.4 0.3 10.5 6.6 22.9 0.9 0.2 NA NA NA S.9 29.8 1975 0.0 0.0 0.3 5.5 1.7 0.3 8.5 7.3 21.2 0.7 0.3 NA NA NA NA NA NA S.9 29.8 1980 0.0 0.0 0.0 8.0 3.7 0.3 9.4 7.3 28.6 0.7 11.9 NA NA NA NA NA NA 10.3 51.5 1.5 1.5 1.5 1.1 0.0 2.7 (s) 0.5 8.4 6.8 18.5 0.7 14.0 0.0 NA NA NA NA 10.3 51.5 1.5 1.5 1.5 1.5 1.1 0.0 2.7 (s) 0.5 8.4 6.8 18.5 0.7 14.0 0.0 NA NA NA 10.7 45.0 1.990 0.7 0.0 4.2 0.1 0.7 10.9 16.0 31.9 0.6 18.2 0.0 (s) (s) (s) 12.7 46.1 1.995 4.1 0.0 3.2 4.2 1.3 6.4 16.1 31.2 0.7 13.3 0.0 (s) (s) (s) 13.0 62.2 1.9 1.0 1.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | | | 0.0 | 3.2 | 0.2 | 0.4 | | | | | | | | NA NA | 1.6 | | 4.8 8.6 | 20.6 34.7 |
| 1995 1.1 0.0 2.7 (s) 0.5 8.4 6.8 18.5 0.7 14.0 0.0 NA NA 10.7 45.0 1990 0.7 0.0 4.2 0.1 0.7 10.9 16.0 31.9 0.6 18.2 0.0 (s) (s) (s) 12.7 64.1 1995 4.1 0.0 3.2 4.2 1.3 6.4 16.1 31.2 0.7 13.3 0.0 (s) (s) (s) 13.0 62.2 2000 2.1 0.6 2.8 0.2 0.8 2.8 15.9 22.4 0.6 9.9 0.0 (s) (s) (s) 13.1 48.1 2001 2.0 0.6 2.8 0.2 0.6 0.1 17.3 21.0 0.5 5.1 0.0 (s) (s) 12.9 41.6 2002 0.7 0.5 2.7 0.8 0.8 2.8 15.0 22.1 0.6 5.1 0.0 (s) (s) 12.9 41.6 2003 1.4 0.5 2.6 0.3 0.7 2.3 16.3 22.2 0.5 6.7 0.0 (s) (s) (s) 13.1 43.9 2004 1.3 0.5 2.4 0.2 0.9 2.5 16.2 22.1 0.6 5.1 0.0 (s) (s) (s) 13.4 44.0 2005 1.4 0.5 3.0 (s) 0.7 4.9 17.4 26.0 0.3 5.9 0.0 (s) (s) (s) 13.4 44.0 2006 1.6 0.5 2.6 0.1 0.7 5.1 16.5 25.2 0.4 5.8 0.0 (s) (s) 0.0 13.3 46.3 2007 1.8 0.5 2.6 0.2 1.3 2.7 14.1 20.1 0.4 5.4 0.0 (s) 0.0 13.2 43.6 2009 2.0 0.4 2.3 0.1 1.2 2.9 18.5 25.1 0.3 5.2 0.0 (s) 0.0 13.2 43.6 2009 2.0 0.4 2.3 0.1 1.2 2.9 18.5 25.1 0.3 5.2 0.0 (s) 0.0 12.6 45.2 2010 1.4 0.4 0.4 1.9 0.2 0.7 2.9 20.0 24.4 0.4 0.4 0.8 0.0 (s) 0.0 12.5 44.4 2011 1.3 0.4 2.2 0.0 0.7 2.9 20.0 24.4 0.4 0.4 0.8 0.0 (s) 0.0 12.5 44.4 2011 1.3 0.4 2.2 0.0 0.7 1.8 2.0 0.7 1.8 2.0 0.2 0.7 2.9 20.0 25.7 0.4 4.4 0.0 (s) 0.0 12.5 44.4 2011 1.3 0.4 2.2 0.0 0.7 2.9 20.0 24.4 0.4 0.4 0.8 0.0 (s) 0.0 12.5 44.4 2011 1.3 0.4 2.2 0.0 0.7 2.8 20.0 25.7 0.5 3.7 0.0 (s) 0.0 12.5 44.4 2011 1.3 0.4 2.2 0.0 0.7 2.8 20.0 25.7 0.5 3.4 (s) (s) (s) 0.0 12.5 44.4 2011 1.4 0.4 2.3 (s) 1.9 (s) 0.9 1.6 18.6 23.7 0.5 3.2 (s) (s) (s) (s) 12.6 41.3 2015 1.1 0.4 2.2 (s) 1.4 1.9 18.6 12.7 18.6 18.6 23.7 0.5 3.2 (s) (s) (s) (s) 12.6 41.3 2015 1.1 0.4 2.2 (s) 1.4 1.9 18.6 18.2 (s) 1.8 1.5 1.2 (s) 1.2 (s) 1.2 (s) 1.4 1.9 18.6 12.7 0.5 3.2 (s) (s) (s) 12.6 41.3 2015 1.1 0.4 2.2 (s) 1.4 1.9 18.6 18.2 (s) 0.0 12.6 41.3 2015 1.1 0.4 2.2 (s) 1.4 1.9 18.6 18.6 23.7 0.5 3.2 (s) (s) (s) (s) 12.6 41.3 2015 1.1 0.4 2.2 (s) 1.4 1.9 18.6 18.6 23.7 0.5 3.2 (s) (s) (s) (s) 12.6 41.3 2015 1.1 0.4 2.9 (s) 1.4 1.9 18.6 18.6 23.7 0.5 3.2 (s) (s) (s) (s) 12.6 41.3 2015 1.1 0.4 2.9 (s) 1.2 (s) 1.4 1.9 18.6 18.6 23.7 0.5 3.2 (s) (s) (s) (s) | 1970 | 0.0 | 0.0 | 4.1 | 1.4 | 0.3 | 10.5 | 6.6 | 22.9 | 0.9 | 0.2 | NA | NA | NA | 5.9 | 29.8 | 13.8 | 43.6 |
| 1995 1.1 0.0 2.7 (s) 0.5 8.4 6.8 18.5 0.7 14.0 0.0 NA NA 10.7 45.0 1990 0.7 0.0 4.2 0.1 0.7 10.9 16.0 31.9 0.6 18.2 0.0 (s) (s) (s) 12.7 64.1 1995 4.1 0.0 3.2 4.2 1.3 6.4 16.1 31.2 0.7 13.3 0.0 (s) (s) (s) 13.0 62.2 2000 2.1 0.6 2.8 0.2 0.8 2.8 15.9 22.4 0.6 9.9 0.0 (s) (s) (s) 13.1 48.1 2001 2.0 0.6 2.8 0.2 0.6 0.1 17.3 21.0 0.5 5.1 0.0 (s) (s) 12.9 41.6 2002 0.7 0.5 2.7 0.8 0.8 2.8 15.0 22.1 0.6 5.1 0.0 (s) (s) 12.9 41.6 2003 1.4 0.5 2.6 0.3 0.7 2.3 16.3 22.2 0.5 6.7 0.0 (s) (s) (s) 13.1 43.9 2004 1.3 0.5 2.4 0.2 0.9 2.5 16.2 22.1 0.6 5.1 0.0 (s) (s) (s) 13.4 44.0 2005 1.4 0.5 3.0 (s) 0.7 4.9 17.4 26.0 0.3 5.9 0.0 (s) (s) (s) 13.4 44.0 2006 1.6 0.5 2.6 0.1 0.7 5.1 16.5 25.2 0.4 5.8 0.0 (s) (s) 0.0 13.3 46.3 2007 1.8 0.5 2.6 0.2 1.3 2.7 14.1 20.1 0.4 5.4 0.0 (s) 0.0 13.2 43.6 2009 2.0 0.4 2.3 0.1 1.2 2.9 18.5 25.1 0.3 5.2 0.0 (s) 0.0 13.2 43.6 2009 2.0 0.4 2.3 0.1 1.2 2.9 18.5 25.1 0.3 5.2 0.0 (s) 0.0 12.6 45.2 2010 1.4 0.4 0.4 1.9 0.2 0.7 2.9 20.0 24.4 0.4 0.4 0.8 0.0 (s) 0.0 12.5 44.4 2011 1.3 0.4 2.2 0.0 0.7 2.9 20.0 24.4 0.4 0.4 0.8 0.0 (s) 0.0 12.5 44.4 2011 1.3 0.4 2.2 0.0 0.7 1.8 2.0 0.7 1.8 2.0 0.2 0.7 2.9 20.0 25.7 0.4 4.4 0.0 (s) 0.0 12.5 44.4 2011 1.3 0.4 2.2 0.0 0.7 2.9 20.0 24.4 0.4 0.4 0.8 0.0 (s) 0.0 12.5 44.4 2011 1.3 0.4 2.2 0.0 0.7 2.8 20.0 25.7 0.5 3.7 0.0 (s) 0.0 12.5 44.4 2011 1.3 0.4 2.2 0.0 0.7 2.8 20.0 25.7 0.5 3.4 (s) (s) (s) 0.0 12.5 44.4 2011 1.4 0.4 2.3 (s) 1.9 (s) 0.9 1.6 18.6 23.7 0.5 3.2 (s) (s) (s) (s) 12.6 41.3 2015 1.1 0.4 2.2 (s) 1.4 1.9 18.6 12.7 18.6 18.6 23.7 0.5 3.2 (s) (s) (s) (s) 12.6 41.3 2015 1.1 0.4 2.2 (s) 1.4 1.9 18.6 18.2 (s) 1.8 1.5 1.2 (s) 1.2 (s) 1.2 (s) 1.4 1.9 18.6 12.7 0.5 3.2 (s) (s) (s) 12.6 41.3 2015 1.1 0.4 2.2 (s) 1.4 1.9 18.6 18.2 (s) 0.0 12.6 41.3 2015 1.1 0.4 2.2 (s) 1.4 1.9 18.6 18.6 23.7 0.5 3.2 (s) (s) (s) (s) 12.6 41.3 2015 1.1 0.4 2.2 (s) 1.4 1.9 18.6 18.6 23.7 0.5 3.2 (s) (s) (s) (s) 12.6 41.3 2015 1.1 0.4 2.9 (s) 1.4 1.9 18.6 18.6 23.7 0.5 3.2 (s) (s) (s) (s) 12.6 41.3 2015 1.1 0.4 2.9 (s) 1.2 (s) 1.4 1.9 18.6 18.6 23.7 0.5 3.2 (s) (s) (s) (s) | 1975 | 0.0 | 0.0 | 3.5 | 1.7 | 0.3 | 8.5 | 7.3 7.3 | 21.2 | 0.7 | 0.3 | NA NA | NA NA | NA NA | 8.7 | 30.9 51.5 | 19.4 23.0 | 43.6 50.3 74.5 |
| 1995 | 1985 | 1.1 | 0.0 | 2.7 | (s) | 0.5 | 8.4 | 6.8 | 18.5 | 0.7 | 14.0 | 0.0 | NA | NA | 10.7 | 45.0 | 22.3 | 67.3 |
| 2000 | | | 0.0 | 4.2 | 0.1 | 0.7 | | 16.0 16.1 | | | 18.2 | | (s) | | 12.7 | 64.1 | 34.9 30.7 | 98.9 92.9 |
| 2002 0.7 0.5 2.7 0.8 0.8 2.8 15.0 22.1 0.6 5.1 0.0 (s) (s) 12.9 41.3 2003 1.4 0.5 2.6 0.3 0.7 2.3 16.3 22.2 0.5 6.7 0.0 (s) (s) (s) 13.1 43.9 2004 1.3 0.5 2.4 0.2 0.9 2.5 16.2 22.1 0.4 6.8 0.0 (s) (s) (s) 13.1 44.0 2005 1.4 0.5 3.0 (s) 0.7 4.9 17.4 26.0 0.3 5.9 0.0 (s) (s) 0.0 13.3 47.1 2006 1.6 0.5 2.6 0.1 0.7 5.1 16.5 25.2 0.4 5.8 0.0 (s) 0.0 13.3 46.3 2007 1.8 0.5 2.6 0.2 1.3 2.7 14.1 20.1 0.4 5.4 0.0 (s) 0.0 13.2 43.6 2008 2.3 0.4 2.0 (s) 1.3 2.7 14.1 20.1 0.4 5.4 0.0 (s) 0.0 13.2 43.6 2009 2.0 0.4 2.3 0.1 1.2 2.9 18.5 25.1 0.3 5.2 0.0 (s) 0.0 12.6 45.2 2010 1.4 0.4 0.4 1.9 0.2 0.7 2.8 20.0 25.7 0.4 4.4 0.0 (s) 0.0 (s) 0.0 12.5 44.4 2011 1.3 0.4 2.0 0.2 0.7 2.9 20.0 25.7 0.4 4.4 0.0 (s) 0.0 12.5 44.4 2011 1.3 0.4 2.2 0.0 0.2 0.7 2.9 20.0 24.4 0.4 0.9 (s) 0.0 12.5 41.6 2013 1.4 0.4 1.9 (s) 0.7 1.8 20.0 24.4 0.4 0.9 (s) 0.0 12.5 41.6 2013 1.4 0.4 2.9 (s) 0.7 1.8 20.0 24.4 0.4 0.9 (s) 0.0 12.5 41.6 2013 1.4 0.4 2.9 (s) 0.7 1.8 20.0 24.4 0.4 0.9 (s) 0.0 12.5 41.6 2013 1.4 0.4 2.9 (s) 0.7 1.8 20.0 24.4 0.4 0.9 (s) 0.9 (s) 0.0 12.5 41.6 2013 1.4 0.4 2.9 (s) 0.9 1.6 18.6 23.4 0.5 3.4 (s) (s) (s) 0.0 12.6 41.3 2015 1.1 0.4 2.9 (s) 1.9 (s) 1.9 (s) 1.8 1.8 20.0 24.4 0.4 0.4 0.9 (s) (s) 0.0 12.6 41.3 2015 1.1 0.4 2.9 (s) 1.9 (s) 1.9 (s) 1.8 1.8 20.0 24.4 0.4 0.4 0.9 (s) (s) (s) 0.0 12.6 41.3 2015 1.1 0.4 1.9 (s) 1.9 (s) 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 | 2000 | 2.1 | 0.6 | 2.8 | 0.2 | 0.8 | 2.8 | 15.9 | 22.4 | 0.6 | 9.9 | 0.0 | (s) | | 13.1 | 48.1 | 29.8 | 77.9 |
| 2003 1.4 0.5 2.6 0.3 0.7 2.3 16.3 22.2 0.5 6.7 0.0 (s) (s) 13.1 43.9 2004 1.3 0.5 2.4 0.2 0.9 2.5 16.2 22.1 0.4 6.8 0.0 (s) (s) (s) 13.4 44.0 2005 1.4 0.5 3.0 (s) 0.7 4.9 17.4 26.0 0.3 5.9 0.0 (s) (s) 0.0 13.3 47.1 2006 1.6 0.5 2.6 0.1 0.7 5.1 16.5 25.2 0.4 5.8 0.0 (s) 0.0 13.3 46.3 2007 1.8 0.5 2.6 0.2 1.3 2.7 16.1 22.8 0.4 5.4 0.0 (s) 0.0 13.2 43.6 2008 2.3 0.4 2.0 (s) 1.3 2.7 14.1 20.1 0.4 5.4 0.0 (s) 0.0 13.2 43.6 2009 2.0 0.4 2.3 0.1 1.2 2.9 18.5 25.1 0.3 5.2 0.0 (s) 0.0 12.6 45.2 2010 1.4 0.4 1.9 0.2 0.7 2.8 20.0 25.7 0.4 4.4 0.0 (s) 0.0 12.5 44.4 2011 1.3 0.4 2.0 0.2 0.7 2.9 20.0 25.7 0.5 3.7 0.0 (s) 0.0 12.5 43.7 2012 1.1 0.4 2.2 0.0 0.7 2.1 18.7 23.6 0.6 3.8 0.0 (s) 0.0 12.5 41.6 2014 1.4 0.4 1.9 (s) 0.7 1.8 20.0 24.4 0.4 4.0 0.0 (s) 0.0 12.5 41.6 2013 1.4 0.4 2.3 (s) 0.9 1.6 18.6 23.4 0.5 3.4 (s) (s) (s) 0.0 12.6 41.3 2015 1.1 0.4 2.3 (s) 0.9 1.6 18.6 23.4 0.5 3.4 (s) (s) (s) 0.0 12.6 41.3 2015 1.1 0.4 1.9 (s) 1.9 (s) 1.8 18.6 23.7 0.5 3.2 (s) (s) (s) (s) (s) 1.2 6 41.3 2015 1.1 0.4 1.9 (s) 1.9 (s) 1.8 18.6 23.7 0.5 3.2 (s) (s) (s) (s) (s) 1.2 6 41.3 2015 1.1 0.4 1.9 (s) 1.9 (s) 1.4 1.9 18.6 823.7 0.5 3.2 (s) (s) (s) (s) (s) (s) 1.2 6 41.3 2015 1.1 0.4 1.9 (s) 1.9 (s) 1.4 1.9 18.6 823.7 0.5 3.2 (s) (s) (s) (s) (s) 12.6 41.3 2015 1.1 0.4 1.9 (s) 1.2 (s) 1.4 1.9 18.6 823.7 0.5 3.2 (s) (s) (s) (s) (s) (s) 12.6 41.3 2015 1.1 0.4 1.9 (s) 1.2 (s) 1.4 1.9 18.6 823.7 0.5 3.2 (s) (s) (s) (s) (s) (s) 12.6 41.3 2015 1.1 0.4 1.9 (s) 1.2 (s) 1.4 1.9 18.6 823.7 0.5 3.2 (s) (s) (s) (s) (s) (s) (s) 12.6 41.3 2015 1.1 0.4 1.9 (s) 1.2 (s) 1.4 1.9 18.6 823.7 0.5 3.2 (s) (s) (s) (s) (s) (s) (s) (s) 12.6 41.3 2015 1.1 0.4 1.9 (s) 1.2 (s) 1.4 1.9 18.6 823.7 0.5 3.2 (s) | | 2.0 | 0.6 | 2.8 | 0.2 | 0.6 | 0.1 | 17.3 15.0 | 21.0 | 0.5 | 5.1 5.1 | 0.0 | (s) | (s) | 12.9 | 41.6 41.3 | 27.8 29.4 | 77.9 69.5 70.7 |
| 2005 | 2003 | 1.4 | 0.5 | 2.6 | 0.3 | 0.7 | 2.3 | 16.3 | 22.2 | 0.5 | 6.7 | 0.0 | (s) | (s) | 13.1 | 43.9 | 24.9 | 68.8 |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | | 1.3 | 0.5 | 2.4 | | 0.9 | 2.5 | | 22.1 26.0 | | | | (s) | (s) |) 13.4 | | 24.9 25.3 | 68.9 72.4 |
| 2008 | 2006 | 1.6 | 0.5 | 2.6 | 0.1 | 0.7 | 5.1 | 16.5 | 25.2 | 0.4 | 5.8 | 0.0 | | 0.0 | 13.3 | 46.3 | 25.3 25.4 | 71.6 |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | 2007 | 1.8 | 0.5 0.4 | 2.6 | | 1.3 | 2.7 | 16.1 14.1 | 22.8 20.1 | 0.4 | 5.4 5.4 | | (s) | 0.0 | 13.2 | 43.6 41.2 | 25.4 24.7 | 69.0 65.8 |
| 2011 1.3 0.4 2.0 0.2 0.7 2.9 20.0 25.7 0.5 3.7 0.0 (s) 0.0 12.5 43.7 2012 1.1 0.4 2.2 0.0 0.7 2.1 18.7 23.6 0.6 3.8 0.0 (s) 0.0 12.5 41.6 2013 1.4 0.4 1.9 (s) 0.7 1.8 20.0 24.4 0.4 4.0 (s) (s) (s) 0.0 12.4 42.6 2014 1.4 0.4 2.3 (s) 0.9 1.6 18.6 23.4 0.5 3.4 (s) (s) (s) 0.0 12.6 41.3 2015 1.1 0.4 1.9 (s) 1.4 1.9 18.6 23.7 0.5 3.2 (s) (s) (s) (s) (s) 12.6 41.3 | 2009 | 2.0 | 0.4 | 2.3 | 0.1 | 1.2 | 2.9 | 18.5 | 25.1 | 0.3 | 5.2 | 0.0 | (s) | 0.0 | 12.6 | 45.2 | 23.9 | 69.1 |
| 2012 1.1 0.4 2.2 0.0 0.7 2.1 18.7 23.6 0.6 3.8 0.0 (s) 0.0 12.5 41.6 2013 1.4 0.4 1.9 (s) 0.7 1.8 20.0 24.4 0.4 4.0 (s) (s) (s) 0.0 12.4 42.6 2014 1.4 0.4 2.3 (s) 0.9 1.6 18.6 23.4 0.5 3.4 (s) (s) (s) 0.0 12.6 41.3 2015 1.1 0.4 1.9 (s) 1.4 1.9 18.6 823.7 0.5 3.2 (s) (s) (s) (s) 12.6 41.3 | | 1.4 | 0.4 | 1.9 | 0.2 | 0.7 | 2.8 | 20.0 | 25.7 25.7 | 0.4 | 4.4 | | (s) | 0.0 | 12.5 | 44.4 43.7 | 23.6 23.9 | 68.1 67.6 |
| 2014 1.4 0.4 2.3 (s) 0.9 1.6 18.6 23.4 0.5 3.4 (s) (s) 0.0 12.6 41.3 2015 1.1 0.4 1.9 (s) 1.4 1.9 18.6 R23.7 0.5 3.2 (s) (s) (s) 12.6 41.3 | 2012 | 1.1 | 0.4 | 2.2 | 0.0 | 0.7 | 2.1 | 18.7 | 23.6 | 0.6 | 3.8 | 0.0 | (s) | 0.0 | 12.5 | 41.6 | 23.5 22.8 | 65.1 65.4 |
| 2015 1.1 0.4 1.9 (s) 1.4 1.9 18.6 R 23.7 0.5 3.2 (s) (s) (s) 12.6 41.3 | | | 0.4 | 1.9 | (s) | 0.7 | 1.8 | 20.0 18.6 | 24.4 23.4 | 0.4 | 4.0 | | (s) | 0.0 | 12.4 | 42.6 41.3 | 22.8 23.3 | 65.4 64.6 |
| | 2015 | 1.1 | 0.4 | 1.9 | | 1.4 | 1.9 | 18.6 | R 23.7 | 0.5 | 3.2 | | (s) | | 12.6 | 41.3 | 23.0 | 64.2 |
| 2016 0.3 0.1 0.9 (s) 1.4 2.6 18.0 22.9 0.3 3.4 (s) (s) (s) 12.7 39.6 2017 0.0 0.1 1.8 0.2 1.4 3.2 18.0 24.7 0.3 0.1 (s) (s) (s) (s) 12.3 37.4 | 2016 2017 | 0.3 | 0.1 0.1 | 0.9 | (s) 0.2 | 1.4 1.4 | 2.6 | 18.0 18.0 | 22.9 24.7 | 0.3 | 3.4 | (s) | (s) | (s) | 12.7 | 39.6 37.4 | 23.5 23.0 | 63.1 60.5 |
| 2018 0.0 0.1 1.5 0.4 1.5 2.8 15.2 21.4 0.3 0.1 (s) (s) (s) 12.3 34.0 | 2018 | 0.0 | 0.1 | 1.5 | 0.4 | 1.5 | 2.8 | 15.2 | 21.4 | 0.3 | 0.1 | (s) | (s) | (s) | 12.3 | 34.0 | 23.0 22.3 | 56.3 |
| 2019 0.0 0.1 2.2 0.1 1.5 2.5 15.0 21.3 0.5 0.1 (s) (s) (s) (s) 12.4 34.3 2020 0.0 0.1 2.0 0.1 1.5 0.0 11.3 R 14.8 0.6 0.1 (s) (s) (s) (s) 11.1 26.7 | | | 0.1 0.1 | 2.2 2.0 | | 1.5 1.5 | 2.5 | | 21.3 R 14 R | 0.5 0.6 | 0.1 0.1 | (s) | (s) | (s) | | 34.3 26.7 | 21.8 20.6 | 56.1 47.3 |
| 2021 0.0 0.1 1.6 0.1 1.3 2.9 10.5 16.5 0.6 0.1 (s) (s) (s) (s) 11.4 28.6 | | | 0.1 | | | 1.3 | | | 16.5 | 0.6 | | (s) | (s) | (s) | | | 21.1 | 47.3 49.7 |

the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by industrial utility-scale facilities.

Includes a small amount of wind energy consumed by industrial utility-scale facilities.

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

kWh = Kilowatthours. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014

and 2015 because of coverage. See Technical Notes, Section 4.

Includes a sphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

There is a discontinuity in this unite series between 1900 and 1909 due to the expanded coverage of references thereby beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Losses and co-products from the production of biodiesel and fuel ethanol.

i Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

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

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and