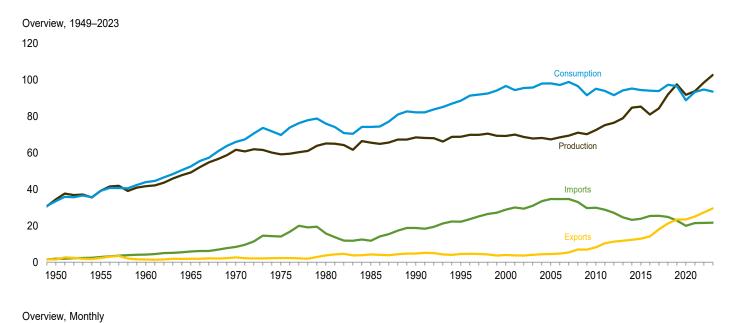
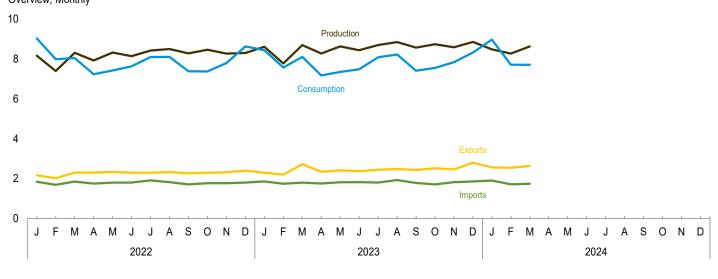
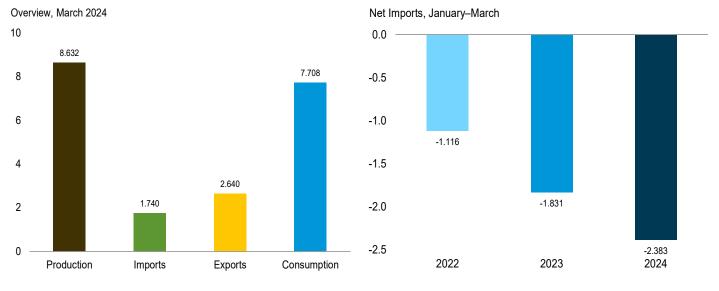
1. EnergyOverview

Figure 1.1 Primary Energy Overview







Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary.

Source: Table 1.1.

2

Table 1.1 Primary Energy Overview

		Prod	uction			Trade		0		Consu	mption	
	Fossil Fuels ^a	Nuclear Electric Power	Renew- able Energy ^b	Total	Imports	Exports	Net Imports ^c	Stock Change and Other ^d	Fossil Fuels ^e	Nuclear Electric Power	Renew- able Energy ^b	Total ^f
1950 Total 1955 Total 1960 Total 1965 Total 1970 Total 1975 Total 1980 Total 1980 Total 1980 Total 1995 Total 1990 Total 2000 Total 2005 Total 2010 Total 2011 Total 2012 Total 2013 Total 2014 Total 2015 Total 2016 Total 2017 Total 2017 Total 2018 Total 2019 Total	32.553 37.347 39.855 47.205 59.152 54.697 57.502 58.523 57.496 57.307 54.995 60.529 62.298 64.180 69.619 70.186 65.435 68.448 75.780 87.7903	0.000 .006 .043 .239 1.900 2.739 4.076 6.104 7.075 7.862 8.161 8.269 8.062 8.244 8.338 8.337 8.427 8.419 8.438 8.427 8.438	1.907 1.821 1.830 2.008 2.289 2.544 3.445 4.018 3.863 4.295 4.093 4.220 5.943 6.187 6.561 6.836 6.846 7.188 7.505 7.744 7.753 7.465 7.807	34.460 39.168 41.691 49.256 61.681 59.141 65.164 65.595 68.490 68.262 67.376 72.536 72.5202 76.547 78.985 84.792 91.963 91.963 91.861 93.841	1.913 2.790 4.188 5.892 8.342 14.032 15.796 11.781 22.180 28.865 34.659 29.866 24.623 23.241 23.794 25.378 24.4833 22.865 19.988 21.455	1.465 2.286 1.477 1.829 2.632 2.323 3.695 4.196 4.752 4.496 3.962 4.462 8.176 10.373 11.267 11.788 12.270 12.902 14.119 17.946 21.224 23.464 25.071	0.448 .504 2.710 4.063 5.709 11.709 12.101 7.584 14.065 14.065 15.801 12.835 10.971 12.835 10.971 11.259 7.512 3.610 -3.476 -3.616	-1.380 457 458 754 -1.354 -1.062 -1.227 1.088 299 2.118 2.528 527 916 389 670 2.433 428 -1.776 1.784 2.017 1.832 390 467 3.138	31.615 37.380 42.091 50.515 63.501 65.323 69.782 66.035 77.162 84.620 85.623 80.723 79.264 79.224 80.017 79.090 78.319 77.907 81.281 80.425 73.139 77.454	0.000 .006 .043 .239 1.900 2.739 4.076 6.104 7.075 7.862 8.161 8.269 8.062 8.244 8.338 8.337 8.427 8.419 8.438 8.438 8.438 8.431	1.907 1.821 1.830 2.008 2.289 2.544 3.445 4.018 3.863 4.297 4.096 4.233 5.896 6.150 6.587 6.799 6.829 7.120 7.383 7.5594 7.301 7.644	33.527 39.215 43.942 52.565 66.036 69.788 74.268 82.256 88.668 96.694 98.101 95.142 93.966 91.677 94.253 95.335 94.092 93.902 97.603 88.852 93.363
2022 January February March April May June July August September October November December Total	6.736 6.098 6.919 6.637 6.917 6.730 6.995 7.110 6.987 7.188 6.935 6.905	.737 .646 .660 .578 .662 .687 .719 .720 .666 .616 .648 .722 8.061	.698 .652 .733 .712 .743 .726 .713 .672 .633 .659 .686 .680	8.171 7.396 8.312 7.928 8.322 8.143 8.503 8.266 8.463 8.269 8.307 98.526	1.841 1.687 1.848 1.747 1.795 1.805 1.913 1.826 1.705 1.771 1.767 1.802 21.507	2.170 2.016 2.305 2.303 2.335 2.297 2.294 2.331 2.266 2.294 2.314 2.407 27.332	329 330 457 555 540 492 381 505 561 523 547 605	1.194 .929 .190 -137 -355 -014 .056 .113 -339 -560 .079 .934 2.091	7.622 6.715 6.663 5.949 6.031 6.225 6.673 6.706 6.089 6.108 6.478 7.240	.737 .646 .660 .578 .662 .687 .719 .720 .666 .616 .648 .722 8.061	.666 .628 .715 .700 .725 .710 .692 .664 .618 .647 .665	9.036 7.995 8.044 7.235 7.427 7.637 8.103 8.111 7.386 7.380 7.800 8.636 94.791
2023 January	7.175 6.482 7.302 6.988 7.252 7.068 7.263 7.412 7.218 8.7.401 8.7.254 8.7.419 8.86.233	.740 .635 .656 .592 .642 .679 .730 .729 .685 .642 .650 .720	.702 .660 .735 .700 .741 .692 .712 .712 .669 .701 .685 .719	8.617 7.777 8.693 8.280 8.635 8.439 8.705 8.853 8.572 8.743 8.743 8.8589 8.857 R 102.760	1.854 1.745 1.793 1.754 1.817 1.826 1.806 1.927 1.782 1.711 1.826 1.859 21.699	2.297 2.202 2.723 2.342 2.419 2.377 2.437 2.437 2.433 2.522 2.462 2.796 29.498	444 457 930 588 602 551 632 560 651 811 636 938 - 7.799	.266 .253 .343 518 680 401 .013 062 511 R376 R110 R .404	7.003 6.288 6.722 5.888 5.967 6.121 6.659 6.794 6.073 R 6.223 R 6.525 R 6.909	.740 .635 .656 .592 .642 .679 .730 .729 .685 .642 .650 .720	.685 .644 .718 .687 .735 .682 .693 .703 .652 .690 .665 .690 8.245	8.439 7.574 8.106 7.174 7.354 7.487 8.087 8.230 7.410 8.7.556 8.7.556 8.7.542 8.324 8.324
2024 January February March 3-Month Total	R 7.083 R 6.899 7.201 21.182	.722 .675 .662 2.058	.683 R .699 .769 2.151	R 8.488 R 8.272 8.632 25.392	R 1.907 R 1.716 1.740 5.363	2.559 R 2.547 2.640 7.746	653 R830 900 -2.383	R 1.139 R .274 024 1.388	7.584 6.359 6.297 20.240	.722 .675 .662 2.058	.662 .682 .749 2.093	R 8.974 R 7.715 7.708 24.397
2023 3-Month Total 2022 3-Month Total	20.958 19.752	2.032 2.043	2.097 2.083	25.087 23.879	5.392 5.376	7.222 6.492	-1.831 -1.116	.862 2.313	20.013 20.999	2.032 2.043	2.047 2.009	24.119 25.075

R=Revised.

Notes: • See "Primary Energy," "Primary Energy Production," and "Primary Energy Consumption," in Glossary. • 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/#summary (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: • **Production:** Table 1.2. • **Trade:** Tables 1.4a and 1.4b. • **Stock Change and Other:** Calculated as consumption minus production and net imports. • **Consumption:** Table 1.3.

3

 ^a Coal, natural gas (dry), crude oil, and natural gas plant liquids.
 ^b See Tables 10.1–10.2c for notes on series components and estimation; and see Note, "Renewable Energy Production and Consumption," at end of Section 10.

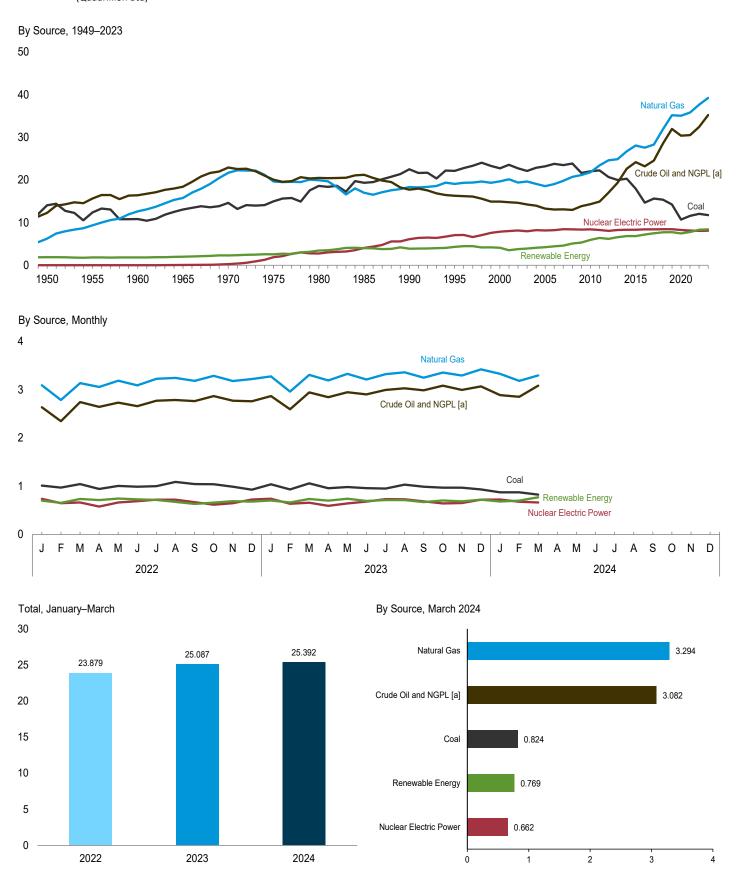
Net imports equal imports minus exports. d Includes petroleum stock change and adjustments; natural gas net storage withdrawals and balancing item; coal stock change, losses, and unaccounted for; fuel ethanol stock change; and biodiesel stock change and balancing item.

Coal, coal coke net imports, natural gas, and petroleum.

Also includes electricity net imports.

Figure 1.2 Primary Energy Production





[a] Natural gas plant liquids.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary.

Source: Table 1.2.

Table 1.2 Primary Energy Production by Source

		F	ossil Fuels						Renewabl	e Energy ^a	l		
	Coal b	Natural Gas (Dry)	Crude Oil ^c	NGPL d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Geo- thermal	Solar	Wind	Bio- mass	Total	Total
1950 Total 1955 Total 1960 Total 1960 Total 1965 Total 1970 Total 1975 Total 1980 Total 1980 Total 1995 Total 1990 Total 2000 Total 2001 Total 2011 Total 2012 Total 2014 Total 2015 Total 2016 Total 2016 Total 2017 Total 2017 Total 2018 Total 2019 Total 2019 Total 2019 Total 2019 Total 2010 Total 2011 Total 2012 Total 2013 Total 2014 Total 2015 Total 2016 Total 2017 Total 2018 Total 2019 Total 2019 Total 2019 Total 2019 Total	14.060 12.370 10.817 13.055 14.697 14.989 18.598 19.325 22.488 22.130 22.735 23.185 22.038 22.221 20.677 20.001 20.286 17.946 14.667 15.625 15.363 14.256 10.703 11.596	6.233 9.345 12.656 15.775 21.6640 19.908 16.980 18.326 19.062 18.556 21.806 24.610 24.859 26.718 28.067 27.576 28.289 31.882 35.187 35.062 35.807	11.447 14.410 14.935 16.521 20.401 17.729 18.249 18.992 15.571 13.887 12.358 10.974 11.610 12.012 13.849 15.868 18.610 19.697 18.527 19.547 22.808 25.604 23.575 23.401	0.813 1.223 1.447 1.853 2.478 2.338 2.225 2.204 2.138 2.398 2.551 2.280 2.705 2.890 3.162 3.451 4.005 4.476 4.665 4.987 5.727 6.352 6.805 7.099	32.553 37.347 39.855 47.205 59.152 54.697 57.502 58.523 57.496 57.307 54.995 60.529 62.298 64.180 69.619 70.186 65.435 68.448 75.780 81.399 76.145 77.903	0.000 .006 .043 .239 1.900 2.739 4.076 6.104 7.075 7.862 8.161 8.434 8.269 8.062 8.244 8.338 8.337 8.427 8.419 8.438 8.452 8.451 8.452	0.344 .397 .510 .672 .856 1.034 .953 .970 .999 1.061 .940 .922 .888 1.090 .943 .916 .885 .914 1.025 .998 .982 .973 .858	NA NA (s) .001 .002 .011 .017 .032 .063 .069 .084 .111 .116 .117 .118 .118 .118 .118 .118	NA NA NA NA NA NA (\$) .059 .052 .064 .120 .161 .196 .251 .329 .384 .511 .627	NA NA NA NA NA (s) .010 .011 .019 .061 .323 .410 .480 .573 .620 .651 .774 .868 .930 1.153 1.290	1.562 1.424 1.320 1.335 1.431 1.499 2.475 3.016 2.735 3.099 3.006 3.101 4.553 4.712 4.554 4.835 5.052 5.031 5.132 5.166 5.314 5.215 4.710 4.914	1.907 1.821 1.830 2.008 2.289 2.544 3.445 4.018 3.863 4.295 4.093 4.220 5.943 6.404 6.187 6.561 6.846 7.188 7.505 7.744 7.753 7.465 7.807	34.460 39.168 41.691 49.256 61.681 59.141 65.164 65.595 68.490 68.866 69.262 67.376 72.536 72.536 75.202 76.547 78.985 84.792 85.369 81.050 84.372 91.963 97.604 91.861 93.841
Populary September October November December September Total	1.012 .970 1.044 .940 1.006 .986 1.000 1.087 1.044 1.040 .988 .926 12.043	3.090 2.784 3.135 3.056 3.183 3.087 3.224 3.240 3.181 3.284 3.178 3.219	2.023 1.792 2.080 2.007 2.068 2.012 2.085 2.112 2.102 2.181 2.110 2.139 24.710	.610 .552 .660 .635 .661 .644 .686 .672 .660 .684 .658 .621	6.736 6.098 6.919 6.637 6.917 6.730 6.995 7.110 6.987 7.188 6.905 82.157	.737 .646 .660 .578 .662 .687 .719 .720 .666 .616 .648 .722 8.061	.083 .073 .083 .068 .080 .089 .084 .072 .058 .049 .061	.010 .009 .010 .010 .010 .010 .010 .010	.042 .047 .063 .071 .079 .083 .077 .070 .063 .047 .040	.128 .128 .147 .158 .144 .115 .101 .084 .093 .112 .141 .132	.435 .394 .430 .406 .430 .430 .436 .429 .402 .425 .427 .429 5.073	.698 .652 .733 .712 .743 .726 .713 .672 .633 .659 .686 .680	8.171 7.396 8.312 7.928 8.322 8.143 8.428 8.503 8.286 8.463 8.269 8.307 98.526
2023 January February March April May June July August September October November December Total	1.037 .931 1.057 .955 .981 .959 .949 1.030 .986 R.968 R.968 R.968 R.933	E 3.273 E 2.958 E 3.304 E 3.190 E 3.326 E 3.209 E 3.320 E 3.327 E 3.247 E 3.247 E 3.291 E 3.291	E 2.217 E 1.996 E 2.252 E 2.159 E 2.239 E 2.201 E 2.280 E 2.300 E 2.301 E 2.261 E 2.331 E 2.269 E 2.339 E 26.843	.648 .597 .688 .683 .706 .700 .714 .726 .724 .750 .725 .728 8.389	7.175 6.482 7.302 6.988 7.252 7.068 7.263 7.412 7.218 R 7.401 R 7.254 R 7.419	.740 .635 .656 .592 .642 .679 .730 .729 .685 .642 .650 .720	.076 .064 .069 .060 .094 .066 .072 .072 .056 .062 .062	.011 .009 .010 .010 .010 .010 .010 .010	.044 .050 .067 .079 .090 .092 .098 .093 .082 .074 .056	.134 .144 .152 .147 .109 .094 .095 .097 .096 .124 .126 .131	.437 .393 .436 .404 .438 .430 .437 .440 .425 .430 .430 .461 5.160	.702 .660 .735 .700 .741 .692 .712 .712 .669 .701 .685 .719	8.617 7.777 8.693 8.280 8.635 8.439 8.705 8.853 8.572 R 8.743 R 8.589 R 8.857 R 102.760
2024 January February March 3-Month Total	.872 .870 .824 2.566	RE 3.326 RE 3.179 E 3.294 E 9.799	RE 2.214 RE 2.162 E 2.325 E 6.701	.671 .688 .757 2.116	R 7.083 R 6.899 7.201 21.182	.722 .675 .662 2.058	.072 .067 .078 .218	.010 .009 .010 .029	.053 .065 .083 .201	.119 .142 .157 .418	.428 R .416 .442 1.286	.683 R .699 .769 2.151	R 8.488 R 8.272 8.632 25.392
2023 3-Month Total 2022 3-Month Total	3.025 3.026	E 9.535 9.010	E 6.465 5.895	1.933 1.822	20.958 19.752	2.032 2.043	.209 .239	.030 .029	.162 .152	.430 .403	1.266 1.260	2.097 2.083	25.087 23.879

a Most data are estimates. See Tables 10.1-10.2c for notes on series components and estimation; and see Note, "Renewable Energy Production and

Consumption," at end of Section 10.

^b Beginning in 1989, includes waste coal supplied. Beginning in 2001, also includes a small amount of refuse recovery. See Table 6.1.

C Includes lease condensate.

d Natural gas processing plant production of natural gas liquids (ethane, propane, normal butane, isobutane, and natural gasoline). Through 1980, also includes natural gas processing plant production of finished petroleum products (aviation gasoline, distillate fuel oil, jet fuel, kerosene, motor gasoline, special

naphthas, and miscellaneous products).

^e Conventional hydroelectric power

Conventional hydroelectric power.

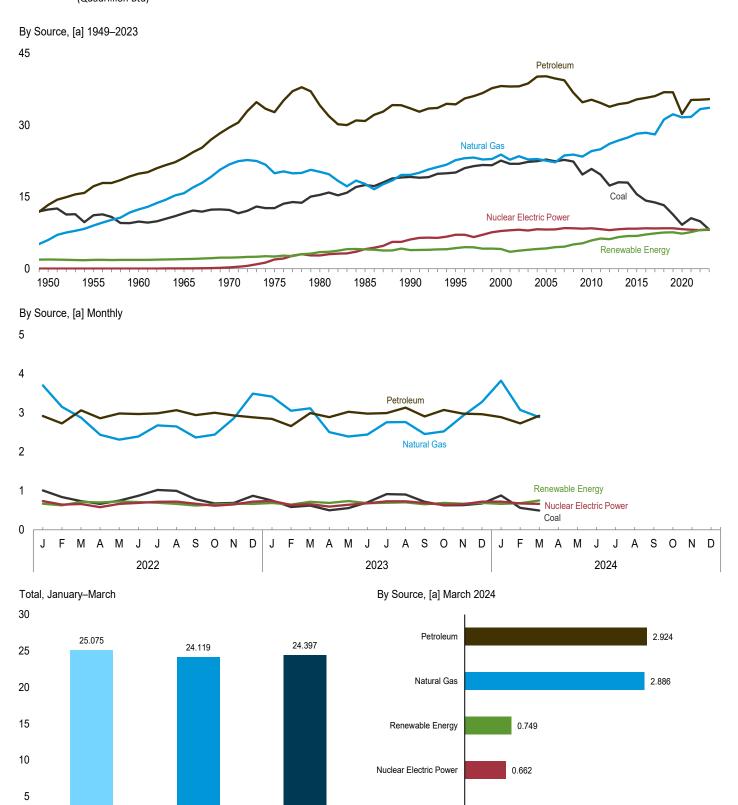
R=Revised. E=Estimate. NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • See "Primary Energy Production" in Glossary. • 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/#summary (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973. Sources: See end of section.

Figure 1.3 Primary Energy Consumption



[a] Small quantities of net imports of coal coke and electricity are not shown. Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary.

2023

Source: Table 1.3.

2022

2024

0.491

Coal

0

Table 1.3 Primary Energy Consumption by Source

		Fossil	Fuels ^a					Renewable	e Energy ^b			
	Coal	Natural Gas ^c	Petro- leum ^d	Totale	Nuclear Electric Power	Hydro- electric Power ^f	Geo- thermal	Solar	Wind	Bio- mass	Total	Total ^g
1950 Total 1955 Total 1955 Total 1960 Total 1965 Total 1970 Total 1970 Total 1980 Total 1980 Total 1990 Total 1995 Total 2000 Total 2010 Total 2011 Total 2012 Total 2014 Total 2015 Total 2016 Total 2017 Total 2017 Total 2018 Total 2019 Total 2019 Total 2019 Total 2019 Total 2019 Total 2010 Total 2011 Total 2011 Total 2012 Total 2013 Total 2014 Total 2015 Total 2016 Total 2017 Total 2018 Total 2019 Total 2019 Total 2020 Total 2020 Total	12.347 11.167 9.838 11.581 12.265 12.663 15.423 17.478 19.173 20.089 22.580 22.797 20.834 19.658 17.378 18.039 17.998 15.549 14.226 13.837 13.252 11.316 9.181 10.549	5.968 8.998 12.385 15.769 21.795 19.948 20.235 17.703 19.603 22.671 23.824 22.565 24.575 24.955 26.089 26.805 27.383 28.191 28.400 28.055 31.163 32.264 31.640 31.711	13.298 17.225 19.874 23.184 29.499 32.699 34.159 30.866 33.500 34.341 38.152 40.217 35.321 34.639 33.833 34.398 34.658 35.712 36.843 36.892 36.866 32.331 35.243	31.615 37.380 42.091 50.515 63.501 65.323 69.782 66.035 72.281 77.162 84.620 85.623 80.723 79.263 77.304 79.224 80.017 79.090 78.319 77.907 81.281 80.425 73.139 77.454	0.000 .000 .006 .043 .239 1.900 2.739 4.076 6.104 7.075 7.862 8.161 8.434 8.269 8.062 8.244 8.338 8.337 8.427 8.419 8.452 8.452 8.452	0.344 .397 .510 .672 .856 1.034 .953 .970 .999 1.061 .940 .922 .888 1.090 .943 .916 .885 .850 .914 1.025 .998 .998	NA NA (s) .001 .002 .011 .017 .032 .063 .060 .069 .084 .111 .116 .117 .118 .118 .118 .118 .118 .118	NA NA NA NA NA NA (s) .056 .064 .059 .052 .068 .076 .094 .120 .161 .196 .251 .329 .384 .430 .511	NA NA NA NA NA NA (s) .010 .011 .019 .061 .323 .410 .480 .573 .620 .651 .774 .868 .930 1.010 1.153 1.290	1.562 1.424 1.320 1.335 1.431 1.499 2.475 3.016 2.735 3.101 3.008 3.114 4.506 4.616 4.517 4.861 5.015 5.045 5.045 5.045 5.045 5.056 4.545 4.751	1.907 1.821 1.830 2.008 2.289 2.544 3.463 4.018 3.863 4.297 4.096 4.233 5.896 6.308 6.150 6.587 6.799 6.829 7.120 7.383 7.535 7.594 7.301 7.644	33.527 39.215 43.942 52.565 66.036 69.788 74.268 82.256 88.668 96.69 95.142 93.966 91.677 94.253 95.335 94.484 94.092 93.902 93.906 91.677 94.253 95.335 95.335 94.484 94.092 93.902
Pebruary September October November Total	1.008 .838 .733 .663 .745 .870 1.018 .997 .783 .673 .690 .871 9.888	3.704 3.153 2.872 2.434 2.313 2.393 2.674 2.650 2.368 2.439 2.859 3.490 33.347	2.915 2.726 3.063 2.858 2.982 2.967 2.986 3.064 2.943 2.999 2.931 2.884 35.319	7.622 6.715 6.663 5.949 6.031 6.225 6.673 6.706 6.089 6.108 6.478 7.240	.737 .646 .660 .578 .662 .687 .719 .720 .666 .616 .648 .722	.083 .073 .083 .068 .080 .089 .084 .072 .058 .049 .061 .070	.010 .009 .010 .010 .010 .010 .010 .010	.042 .047 .063 .071 .079 .083 .087 .070 .063 .047 .040	.128 .128 .147 .158 .144 .115 .101 .084 .093 .112 .141 .132	.404 .370 .412 .393 .412 .414 .415 .421 .387 .413 .407 .409	.666 .628 .715 .700 .725 .710 .692 .664 .618 .647 .665 .661	9.036 7.995 8.044 7.235 7.427 7.637 8.103 8.111 7.386 7.380 8.636 94.791
February	.749 .582 .618 .499 .552 .703 .913 .902 .716 R.628 R.630 R.674	3.415 3.049 3.115 2.503 2.392 2.443 2.755 2.764 2.455 2.522 2.920 3.277 33.611	2.842 2.658 2.991 2.888 3.026 2.978 2.993 3.130 2.906 3.074 2.978 2.963 35.427	7.003 6.288 6.722 5.888 5.967 6.121 6.659 6.794 6.073 R 6.223 R 6.525 R 6.909	.740 .635 .656 .592 .642 .679 .730 .729 .685 .642 .650 .720	.076 .064 .069 .060 .094 .066 .072 .072 .056 .062 .062 .066 .818	.011 .009 .010 .010 .010 .010 .010 .010	.044 .050 .067 .079 .090 .092 .098 .093 .082 .074 .056 .051	.134 .144 .152 .147 .109 .094 .095 .097 .096 .124 .126 .131	.420 .376 .420 .391 .432 .420 .418 .431 .408 .420 .410 .432 4.978	.685 .644 .718 .687 .735 .682 .693 .703 .652 .690 .665 .690	8.439 7.574 8.106 7.174 7.354 7.487 8.087 8.230 7.410 8.7410 8.324 8.324 8.324
2024 January	.876 .561 .491 1.928	R 3.824 3.071 2.886 9.780 9.579	2.886 2.728 2.924 8.538 8.491	7.584 6.359 6.297 20.240 20.013	.722 .675 .662 2.058 2.032	.072 .067 .078 .218	.010 .009 .010 .029	.053 .065 .083 .201	.119 .142 .157 .418	.407 .399 .422 1.228	.662 .682 .749 2.093	R 8.974 R 7.715 7.708 24.397
2022 3-Month Total	2.579	9.728	8.704	20.999	2.043	.239	.029	.152	.403	1.186	2.009	25.075

a Includes non-combustion use of fossil fuels.
b Most data are estimates. See Tables 10.1–10.2c for notes on series components and estimation; and see Note, "Renewable Energy Production and

Consumption," at end of Section 10.

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

^d Petroleum products supplied; excludes biofuels. Biofuels are included in

[&]quot;Biomass."

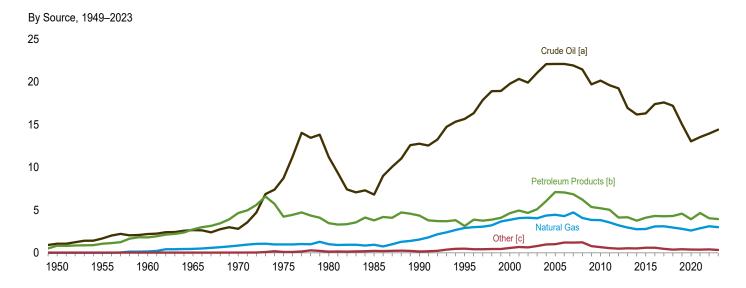
includes coal coke net imports. See Table 1.4c.
 Conventional hydroelectric power.
 Includes coal coke net imports and electricity net imports, which are not

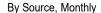
separately displayed. See Table 1.4c.
R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.
Notes:
See "Primary Energy Consumption" in Glossary.
See Table D1 for estimated energy consumption for 1635–1945.
Totals may not equal sum of components due to independent rounding.
Geographic coverage is the 50 states and the District of Columbia.
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973

beginning in 1973.

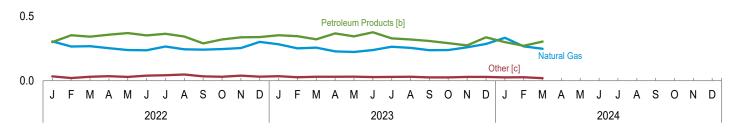
Sources: See end of section.

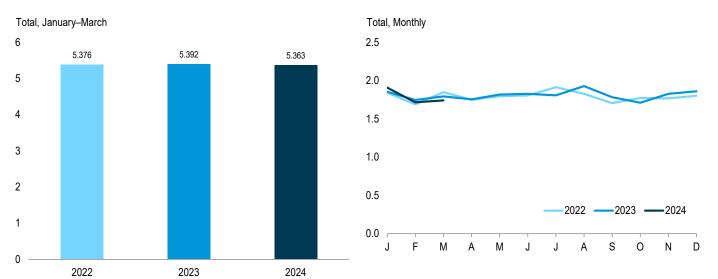
Figure 1.4a Primary Energy Imports











- [a] Crude oil and lease condensate, includes imports into the Strategic Petroleum Reserve, which began in 1977.
- [b] Petroleum products, unfinished oils, natural gasoline, and gasoline blending components. Does not include biofuels.
- [c] Coal, coal coke, biomass, and electricity.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary.

Source: Table 1.4a.

Table 1.4a Primary Energy Imports by Source

					Imports				
					Petroleum				
	Coal	Coal Coke	Natural Gas	Crude Oil ^a	Petroleum Products ^b	Total	Biomass ^c	Electricity	Total
950 Total	0.009	0.011	0.000	1.056	0.830	1.886	NA	0.007	1.913
955 Total	.008	.003	.011	1.691	1.061	2.752	NA	.016	2.790
960 Total	.007	.003	.161	2.196	1.802	3.999	NA	.018	4.188
965 Total	.005	.002	.471	2.654	2.748	5.402	NA	.012	5.892
970 Total	.001	.004	.846	2.814	4.656	7.470	NA	.021	8.342
975 Total	.024	.045	.978	8.721	4.227	12.948	NA	.038	14.032
980 Total	.030	.016	1.006	11.195	3.463	14.658	NA	.085	15.796
985 Total	.049	.014	.952	6.814	3.796	10.609	NA	.157	11.781
990 Total	.067	.019	1.551	12.766	4.351	17.117	NA 004	.063	18.817
995 Total	.237	.095	2.901	15.669	3.131	18.800	.001	.146	22.180
000 Total	.313	.094	3.869	19.783	4.641	24.424	(s)	.166	28.865
005 Total	.762	.088	4.450	22.091	7.108	29.198	.012	.150	34.659
010 Total	.484	.030	3.834	20.140	5.219	25.359	.004 .019	.154	29.866
011 Total	.327 .212	.035 .028	3.555 3.216	19.595 19.239	5.038 4.122	24.633 23.361	.049	.178 .202	28.748 27.068
012 Total 013 Total	.112	.028	3.216 2.955	19.239	4.122 4.169	23.361	.102	.202	24.623
014 Total	.252	.003	2.763	16.178	3.773	19.951	.046	.227	23.241
015 Total	.256	.003	2.786	16.299	4.111	20.410	.079	.259	23.794
016 Total	.220	.006	3.082	17.392	4.309	21.700	.123	.248	25.378
017 Total	.168	.001	3.109	17.597	4.277	21.874	.081	.224	25.458
018 Total	.122	.003	2.961	17.192	4.309	21.501	.048	.199	24.833
019 Total	.138	.003	2.810	15.045	4.596	19.641	.072	.201	22.865
020 Total	.105	.004	2.615	13.044	3.937	16.980	.074	.210	19.988
021 Total	.109	.003	2.878	13.539	4.661	18.200	.083	.181	21.455
022 January	.011	(s)	.304	1.207	.298	1.505	.006	.015	1.841
February	.006	(s)	.264	1.049	.352	1.402	.003	.011	1.687
March	.011	(s)	.266	1.210	.341	1.552	.006	.013	1.848
April	.015	(s)	.251	1.106	.356	1.462	.006	.013	1.747
May	.007	(s)	.237	1.163	.368	1.530	.006	.015	1.795
June	.013	(s)	.235	1.182	.351	1.533	.005	.019	1.805
July	.014	(s)	.264	1.244	.363	1.607	.005	.023	1.913
August	.017	(s)	.242	1.195	.342	1.537	.006	.025	1.826
September	.011	(s)	.240	1.144	.288	1.432	.004	.018	1.705
October	.009	(s)	.245	1.177	.319	1.496	.007	.014	1.771
November	.015	(s)	.252	1.141	.335	1.477	.010	.012	1.767
December	.006	(s)	.300	1.132	.338	1.470	.009	.017	1.802
Total	.135	.002	3.100	13.951	4.052	18.003	.073	.194	21.507
322 Ionuona	.011	(6)	.282	1.185	.352	1.537	.008	.015	1.854
D23 January February	.006	(s) (s)	.250	1.125	.344	1.469	.008	.012	1.745
March	.006	(s)	.256	1.189	.320	1.509	.009	.012	1.743
April	.009	.001	.226	1.132	.366	1.498	.008	.012	1.754
May	.009	(s)	.222	1.222	.343	1.564	.011	.012	1.734
June	.006	.001	.237	1.187	.375	1.562	.009	.010	1.826
July	.007	.001	.262	1.187	.328	1.515	.008	.011	1.806
August	.008	(s)	.253	1.326	.319	1.644	.012	.010	1.927
September	.007	(s)	.236	1.214	.307	1.521	.010	.008	1.782
October	.009	.001	.237	1.159	.291	1.449	.007	.008	1.711
November	.007	.001	.258	1.267	.273	1.540	.011	.008	1.826
December	.005	(s)	.284	1.212	.335	1.547	.012	.011	1.859
Total	.088	.òó5	3.003	14.404	3.952	18.356	.114	.133	21.699
)24 January	.002	(s)	.332	1.252	.298	1.550	.011	.012	R 1.907
February	.003	(s)	.265	1.155	.270	1.425	.014	R.009	R 1.716
March	.002	(s)	.247	1.170	.303	1.473	.009	.008	1.740
3-Month Total	.007	(s)	.844	3.577	.871	4.448	.034	.029	5.363
)23 3-Month Total	.022	(s)	.788	3.500	1.016	4.515	.026	.040	5.392
22 3-Month Total	.028	(s)	.834	3.467	.991	4.458	.016	.039	5.376

a Crude oil and lease condensate. Includes imports into the Strategic Petroleum

Notes: • See "Primary Energy" in Glossary. • 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/#summary (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

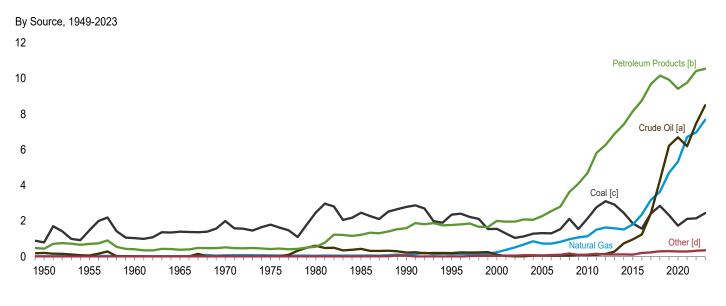
Reserve, which began in 1977.

^b Petroleum products, unfinished oils, natural gasoline, and gasoline blending components. Does not include biofuels.

^c Beginning in 1993, includes fuel ethanol (minus denaturant). Beginning in 2001, also includes biodiesel. Beginning in 2011, also includes renewable diesel fuel. Beginning in 2021, also includes other biofuels.

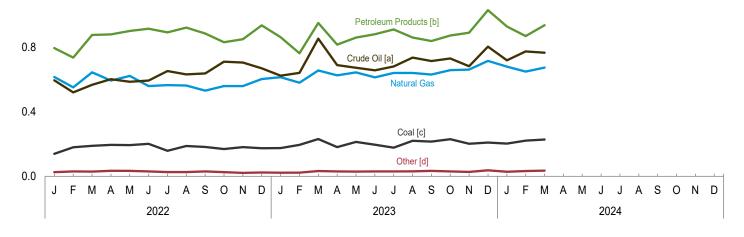
R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

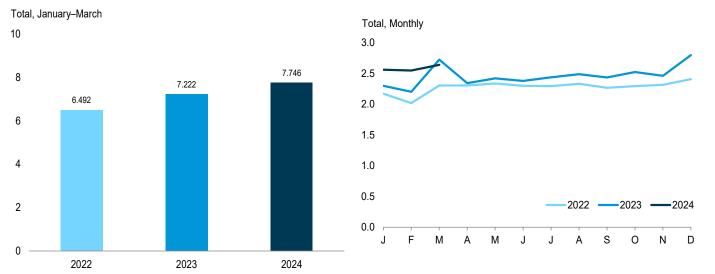
Figure 1.4b Primary Energy Exports



By Source, Monthly







- [a] Crude oil and lease condensate.
- [b] Petroleum products, unfinished oils, natural gasoline, and gasoline blending components. Does not include biofuels.
- [c] Includes coal coke.

[d] Biomass and electricity

Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary.

Source: Table 1.4b.

Table 1.4b Primary Energy Exports by Source

					Exports				
					Petroleum				
	Coal	Coal Coke	Natural Gas	Crude Oil ^a	Petroleum Products ^b	Total	Biomass ^c	Electricity	Total
1950 Total	0.786	0.010	0.027	0.202	0.440	0.642	NA	0.001	1.465
1955 Total	1.465	.013	.032	.067	.707	.774	NA	.002	2.286
1960 Total	1.023	.009	.012	.018	.413	.431	NA	.003	1.477
1965 Total 1970 Total	1.376 1.936	.021 .061	.027 .072	.006 .029	.386 .520	.392 .549	NA NA	.013 .014	1.829 2.632
1975 Total	1.761	.032	.074	.012	.427	.439	NA	.017	2.323
1980 Total	2.421	.051	.049	.609	.551	1.160	NA	.014	3.695
1985 Total	2.438	.028	.056	.432	1.225	1.657	NA	.017	4.196
1990 Total	2.772	.014	.087	.230	1.594	1.824	NA	.055	4.752
1995 Total 2000 Total	2.318 1.528	.034 .028	.156 .245	.200 .106	1.776 2.003	1.976 2.110	NA NA	.012 .051	4.496 3.962
2005 Total	1.273	.043	.735	.067	2.276	2.344	(s)	.065	4.462
2010 Total	2.101	.036	1.147	.088	4.691	4.780	.047	.065	8.176
2011 Total	2.751	.024	1.519	.100	5.820	5.919	.108	.051	10.373
2012 Total	3.087	.024	1.633	.143	6.261	6.404	.078	.041	11.267
2013 Total	2.895	.021	1.587	.284	6.886	7.170	.076	.039	11.788
2014 Total 2015 Total	2.435 1.852	.023 .021	1.528 1.800	.744 .964	7.414 8.153	8.158 9.118	.081 .080	.045 .031	12.270 12.902
2016 Total	1.546	.025	2.356	1.238	8.752	9.990	.181	.021	14.119
2017 Total	2.388	.030	3.182	2.424	9.684	12.108	.206	.032	17.946
2018 Total	2.824	.029	3.640	4.277	10.158	14.434	.249	.047	21.224
2019 Total	2.305	.024	4.700	6.212	9.926	16.139	.240	.068	23.476
2020 Total	1.725	.017	5.332	6.699	9.410	16.108	.234	.048	23.464
2021 Total	2.061	.052	6.712	6.191	9.761	15.952	.247	.047	25.071
2022 January	.134	.005	.616	.595	.795	1.390	.020	.005	2.170
February	.178	.002	.551	.520	.736	1.255	.024	.005	2.016
March	.184	.005	.645	.567	.876	1.443	.023	.006	2.305
April	.190	.005	.593	.602	.880	1.481	.029	.005	2.303
May	.184 .197	.010 .004	.622 .559	.586 .593	.901 .915	1.487 1.508	.027 .026	.005 .004	2.335 2.297
June July	.153	.004	.565	.653	.892	1.545	.020	.004	2.297
August	.184	.004	.563	.632	.922	1.554	.022	.004	2.331
September	.177	.005	.531	.638	.885	1.523	.025	.005	2.266
October	.165	.004	.559	.710	.831	1.541	.021	.004	2.294
November	.177	.003	.559	.705	.850	1.554	.018	.003	2.314
December	.169 2.093	.005 .057	.603 6.966	.669 7.468	.936 10.417	1.605 17.885	.022 .278	.003 .054	2.407 27.332
Total	2.093	.037	0.900	7.400	10.417	17.000	.210	.034	21.332
2023 January	.172	.003	.614	.624	.862	1.486	.018	.004	2.297
February	.193	.002	.580	.641	.763	1.404	.018	.005	2.202
March	.229	.002	R.656	.854	.951	1.804	.027	.004	2.723
April	.179	.002 .003	.626 .644	.689 .673	.816 .860	1.505	.024 .024	.006 .004	2.342 2.419
May June	.209 .193	.003	.644 .613	.673 .657	.881	1.533 1.538	.024	.004	2.419
July	.172	.004	.640	.681	.910	1.591	.023	.007	2.437
August	.217	.003	.640	.736	.861	1.597	.025	.005	2.487
September	.211	.004	.631	.715	.839	1.553	.026	.008	2.433
October	.228	.002	.658	.730	.873	1.603	.024	.007	2.522
November	.199 .204	.003 .005	.661 .716	.682 .804	.890 1.030	1.572 1.834	.021 .031	.006	2.462 2.796
December Total	2.405	.005 . 037	R 7.679	8.486	10.536	1.034 19.022	.286	.006 . 068	29.498
2024 January	.203	.001	.680	. <u>71</u> 9	.929	1.648	.021	.006	2.559
February	.220	.002	.649	.774	.869	1.643	.024	R.008	R 2.547
March	.224	.004	.674	.766	.937	1.703	.027	.009	2.640
3-Month Total	.646	.007	2.003	2.260	2.735	4.994	.072	.023	7.746
2023 3-Month Total 2022 3-Month Total	.593 .497	.008 .012	1.850 1.813	2.120 1.681	2.575 2.406	4.695 4.087	.063 .067	.014 .016	7.222 6.492

Notes: • See "Primary Energy" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states

 $^{^{\}rm a}$ Crude oil and lease condensate. $^{\rm b}$ Petroleum products, unfinished oils, natural gasoline, and gasoline blending

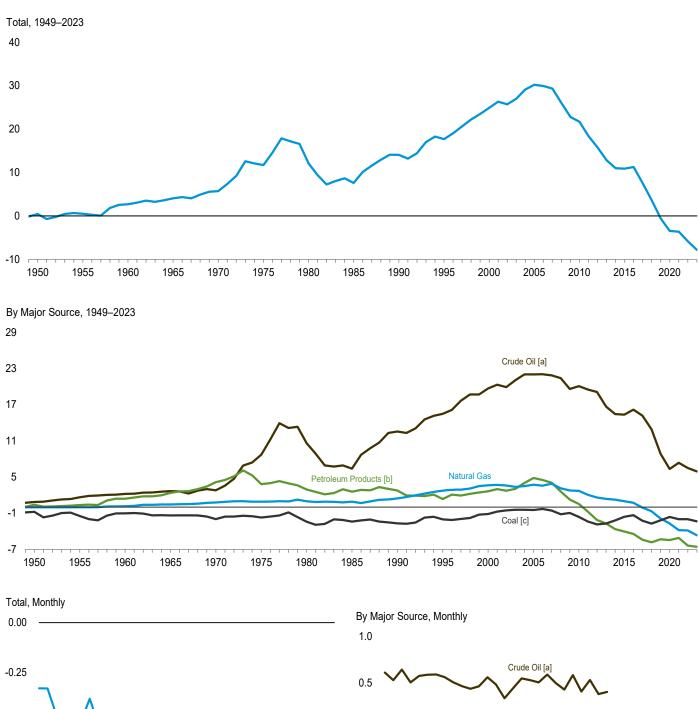
components. Does not include biofuels.

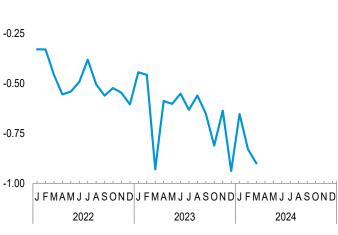
^c Beginning in 2001, includes biodiesel. Beginning in 2010, also includes fuel ethanol (minus denaturant). Beginning in 2016, also includes wood and wood-derived fuels.
R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973. Sources: See end of section.

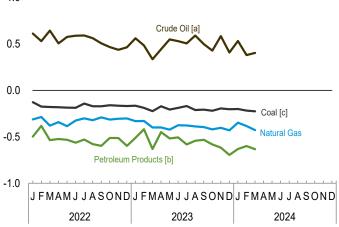
Figure 1.4c Primary Energy Net Imports





[a] Crude oil and lease condensate. Includes imports into the Strategic Petroleum Reserve, which began in 1977.

[b] Petroleum products, unfinished oils, natural gasoline, and gasoline blending components. Does not include biofuels.



[c] Includes coal coke.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.4c.

Table 1.4c Primary Energy Net Imports by Source

					Net Imports ^a				
					Petroleum				
	Coal	Coal Coke	Natural Gas	Crude Oil ^b	Petroleum Products ^c	Total	Biomass ^d	Electricity	Total
1950 Total	-0.777	0.001	-0.027	0.854	0.390	1.244	NA	0.006	0.448
1955 Total	-1.456	010	021	1.624	.354	1.978	NA	.014	.504
1960 Total	-1.017 -1.372	006 018	.149 .444	2.178 2.648	1.389 2.362	3.568 5.010	NA NA	.015	2.710 4.063
1965 Total 1970 Total	-1.935	058	.774	2.785	4.136	6.921	NA NA	(s) .007	5.709
1975 Total	-1.738	.014	.904	8.708	3.800	12.508	NA	.021	11.709
1980 Total	-2.391	035	.957	10.586	2.912	13.499	NA	.071	12.101
1985 Total 1990 Total	-2.389 -2.705	013 .005	.896 1.464	6.381 12.536	2.570 2.757	8.952 15.293	NA NA	.140 .008	7.584 14.065
1995 Total	-2.705 -2.081	.061	2.745	15.469	1.355	16.824	NA NA	.134	17.684
2000 Total	-1.215	.065	3.623	19.676	2.638	22.314	NA	.115	24.904
2005 Total	512	.044	3.714	22.023	4.831	26.855	.011	.085	30.197
2010 Total	-1.617	006	2.687	20.052	.528	20.580	042	.089	21.690
2011 Total 2012 Total	-2.423 -2.875	.011 .004	2.036 1.583	19.495 19.096	781 -2.139	18.714 16.957	089 029	.127 .161	18.375 15.801
2013 Total	-2.696	017	1.369	16.673	-2.717	13.956	.026	.197	12.835
2014 Total	-2.183	022	1.235	15.434	-3.641	11.793	034	.182	10.971
2015 Total	-1.596	018	.986	15.335	-4.042	11.292	001	.227	10.892
2016 Total	-1.326	019	.725	16.154 15.172	-4.443 5.407	11.710	058	.227	11.259
2017 Total 2018 Total	-2.220 -2.702	029 026	073 679	15.173 12.915	-5.407 -5.849	9.766 7.066	124 201	.192 .152	7.512 3.610
2019 Total	-2.167	021	-1.889	8.833	-5.331	3.502	168	.133	610
2020 Total	-1.620	013	-2.717	6.345	-5.473	.872	159	.161	-3.476
2021 Total	-1.952	049	-3.834	7.348	-5.100	2.248	163	.134	-3.616
2022 January	124	005	313	.612	497	.115	013	.010	329
February	172	002	287	.530	383	.147	022	.006	330
March	173 175	005 005	379 342	.644 .505	535 524	.109 019	016	.007 .009	457 555
April May	175 177	010	342 386	.576	524	.043	023 021	.009	555 540
June	- 184	004	324	.589	563	.026	021	.015	492
July	139	005	301	.592	529	.062	017	.019	381
August	167	004	321	.562	579	017	016	.020	505
September October	166 156	005 004	291 314	.507 .467	598 512	091 044	021 014	.013 .010	561 523
November	163	003	306	.437	514	077	007	.009	547
December	163	005	302	.463	598	135	013	.014	605
Total	-1.957	056	-3.866	6.483	-6.365	.118	205	.141	-5.826
2023 January	162	003	332	.561	510	.052	010	.011	444
February	187	002	330 ^R 400	.484	419	.065	010	.007	457
March April	222 169	002 002	400	.335 .443	631 450	296 007	018 016	.009 .007	930 588
May	203	003	423	.549	518	.031	014	.009	602
June	187	002	375	.530	506	.024	016	.006	551
July	165	003	378	.506	582	076	015	.004	632
August September	209 204	003 004	388 395	.590 .499	542 532	.048 033	013 015	.005	560 651
October	204 219	004	421	.428	582 582	033 154	015 016	(s) .001	811
November	192	002	403	.585	617	032	010	.002	636
December	199	005	431	.408	696	288	019	.005	938
Total	-2.317	032	-4.677	5.918	-6.584	666	172	.065	-7.799
2024 January	201	001	348	.532	631	099	010	.006	653
February	216 222	002 004	384 427	.380 .404	599 634	218 229	010 - 017	R.001 - 001	R830 900
March 3-Month Total	222 639	004 006	427 -1.159	.404 1.317	634 -1.863	229 546	017 038	001 .005	900 -2.383
2023 3-Month Total	571	007	-1.062	1.380	-1.559	179	037	.027	-1.831
2022 3-Month Total	468	012	978	1.785	-1.415	.371	052	.023	-1.116

biofuels imports.

R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • See "Primary Energy" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

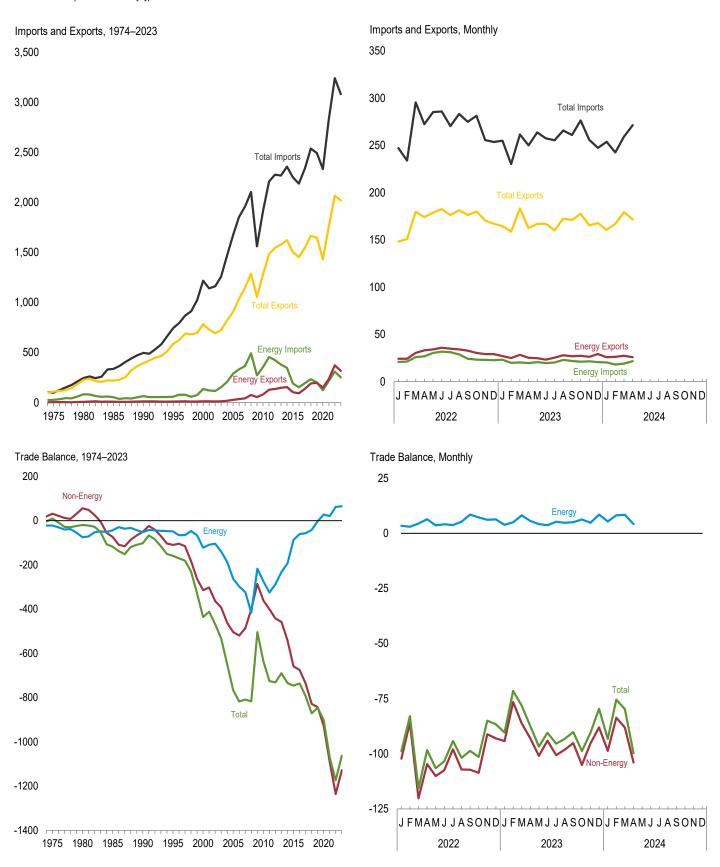
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973

beginning in 1973.
Sources: Tables 1.4a and 1.4b.

 ^a Net imports equal imports minus exports.
 ^b Crude oil and lease condensate. Includes imports into the Strategic Petroleum Reserve, which began in 1977.
 ^c Petroleum products, unfinished oils, natural gasoline, and gasoline blending components. Does not include biofuels.
 ^d Beginning in 1993, includes fuel ethanol (minus denaturant) imports. Beginning in 2001, also includes biodiesel imports and exports. Beginning in 2010, also includes fuel ethanol (minus denaturant) exports. Beginning in 2011, also includes renewable diesel fuel imports. Beginning in 2021, also includes other

Figure 1.5 Merchandise Trade Value





[a] Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary. Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.5.

Table 1.5 Merchandise Trade Value

(Million Dollarsa)

		Petroleum	b		Energy ^c		_Non-		Total Merchand	ise
	Exports	Imports	Balance	Exports	Imports	Balance	Energy Balance	Exports	Imports	Balance
1974 Total	b102,180 111,949 123,244 127,818 85,890 74,921 104,975 149,715 156,390 110,373	24,668 25,197 78,637 50,475 61,583 54,368 119,251 250,068 431,866 448,509 363,141 326,709 177,455 142,920 189,040 113,077 198,648	-23,876 -24,289 -75,803 -45,768 -54,682 -48,047 -109,059 -230,913 -268,719 b-329,686 -296,560 -239,897 -198,891 -91,565 -67,999 -76,697 -69,778 -32,650 -2,704	3,444 4,470 7,982 9,971 12,233 10,358 13,179 26,488 80,625 128,989 136,054 147,572 154,498 103,612 92,971 137,920 190,888 197,740 150,074	25,454 26,476 82,924 53,917 64,661 59,109 135,367 289,723 354,982 453,839 423,860 379,758 347,474 190,501 153,800 193,2746 200,829 122,486 215,734	-22,010 -22,006 -74,942 -43,946 -52,428 -48,751 -122,188 -263,235 -274,357 -324,850 -287,806 -232,186 -192,976 -86,889 -6,689 -56,870 -41,858 -3,089 27,588	18,126 31,557 55,246 -73,765 -50,068 -110,050 -313,916 -504,242 -361,005 -400,597 -442,640 -457,284 -541,506 -658,594 -674,497 -735,526 -828,500 -842,670 -929,070	99,437 108,856 225,566 218,815 393,592 584,742 781,918 905,978 1,278,495 1,482,508 1,545,821 1,545,821 1,578,517 1,621,874 1,503,328 1,451,460 1,547,195 1,665,787 1,645,940 1,429,995	103,321 99,305 245,262 336,526 496,088 743,543 1,218,022 1,673,455 1,913,857 2,207,954 2,276,267 2,267,987 2,356,356 2,248,811 2,186,786 2,339,591 2,536,145 2,491,700 2,331,477	-3,884 9,551 -19,696 -117,712 -102,496 -158,801 -436,104 -767,477 -635,362 -725,447 -730,446 -689,470 -734,482 -745,483 -745,483 -745,483 -792,396 -870,358 -845,759 -901,482
Petron Protection of the control of	R 16,083 R 21,186 R 23,196 R 23,090 R 24,698 R 25,207 R 23,268 R 22,054 R 20,677 R 20,146	18,180 19,117 R 24,083 R 24,787 R 28,330 R 29,557 R 28,886 R 26,280 R 22,031 R 21,640 R 21,043 R 19,301	R-1,761 R-3,034 R-2,897 R-1,591 R-5,240 R-4,859 R-3,679 R-3,012 R-3 R-552 R-366 R-366 R-366 R-366	R 24,205 R 24,185 R 30,405 R 33,113 R 34,086 R 35,952 R 34,938 R 34,087 R 32,786 R 30,500 R 29,184 R 29,047	R 20,777 21,207 25,978 R 26,730 R 30,513 R 31,199 R 28,821 R 24,257 R 23,276 R 23,064 R 22,678 R 310,358	R 3,428 R 2,978 R 4,427 R 6,383 R 3,573 R 4,094 R 3,739 R 5,266 R 8,529 R 7,224 R 6,120 R 6,369	R-102,184 R-85,937 R-120,185 R-104,706 R-110,097 R-107,485 R-97,922 R-107,098 R-107,231 R-108,613 R-91,117 R-92,974	R 148,312 R 150,966 R 179,913 R 174,107 R 178,786 R 182,602 R 176,254 R 181,450 R 176,312 R 180,050 R 170,583 R 167,120	R 247,067 R 233,926 R 295,671 R 272,430 R 285,309 R 285,993 R 270,437 R 283,282 R 275,014 R 281,439 R 255,580 R 253,725	R-98,756 R-82,959 R-115,758 R-98,323 R-106,524 R-103,391 R-94,183 R-101,832 R-98,702 R-101,389 R-84,997 R-86,605 R-1,173,419
2023 January	R 18,255 R 17,401 R 19,413 R 21,557 R 20,521 R 20,303 R 19,368 R 21,960	R 20,191 R 17,922 R 18,852 R 18,627 R 19,736 R 18,764 R 19,024 R 21,899 R 20,753 R 20,034 R 20,218 R 19,216	R-1,862 R-460 R1,490 R-183 R-1,481 R-1,363 R389 R-342 R-232 R269 R-850 R-850	R 27,094 R 24,974 R 28,400 R 25,279 R 24,849 R 23,351 R 25,437 R 27,878 R 26,847 R 27,376 R 26,362 R 29,209 R 317,057	R 23,215 R 19,953 R 20,312 R 19,669 R 20,643 R 19,681 R 20,176 R 23,037 R 21,811 R 21,093 R 21,550 R 20,726 R 251,865	R 3,879 R 5,021 R 8,088 R 5,610 R 4,206 R 3,670 R 5,261 R 4,841 R 5,036 R 6,283 R 4,812 R 8,483 R 65,192	R -94,226 R -76,523 R -86,213 R -93,070 R -100,933 R -94,081 R -100,641 R -98,106 R -95,141 R -105,079 R -95,255 R -88,033 R -1,127,303	R 164,603 R 158,770 R 183,433 R 162,579 R 166,969 R 167,080 R 172,531 R 171,036 R 177,653 R 165,416 R 167,861	R 254,950 R 230,272 R 261,558 R 250,039 R 263,697 R 257,538 R 255,460 R 265,796 R 261,141 R 276,449 R 255,859 R 247,412 R 3,080,170	R-90,347 R-71,502 R-78,125 R-87,460 R-96,727 R-90,411 R-95,380 R-93,265 R-90,105 R-98,796 R-90,443 R-79,550 R-1,062,111
2024 January	18,784 19,098 20,964 20,446 79,292 74,578 76,884	18,422 16,656 18,026 20,803 73,907 75,591 86,167	362 2,442 2,938 -357 5,385 -1,015 -9,283	25,789 26,320 27,459 25,917 105,485 105,747 111,908	20,382 18,147 19,104 21,733 79,365 83,149 94,692	5,407 8,173 8,355 4,184 26,119 22,598 17,216	-98,628 -83,613 R-88,112 -103,916 -374,269 -350,032 -413,012	160,579 167,171 R 179,391 171,673 678,814 669,385 653,298	253,800 242,611 R 259,147 271,405 1,026,964 996,819 1,049,094	-93,221 -75,440 R-79,757 -99,732 -348,150 -327,435 -395,796

components due to independent rounding. • The U.S. import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. customs territory, which comprises the 50 states, the District of Columbia, Puerto Rico, and the Virgin Islands.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary (Excel and CSV files) for all available annual and monthly data beginning in 1974.

 $^{^{\}rm a}$ Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary. $^{\rm b}$ Through 2010, data are for crude oil, petroleum preparations, liquefied propane and butane, and other mineral fuels. Beginning in 2011, data are for petroleum products and preparations.

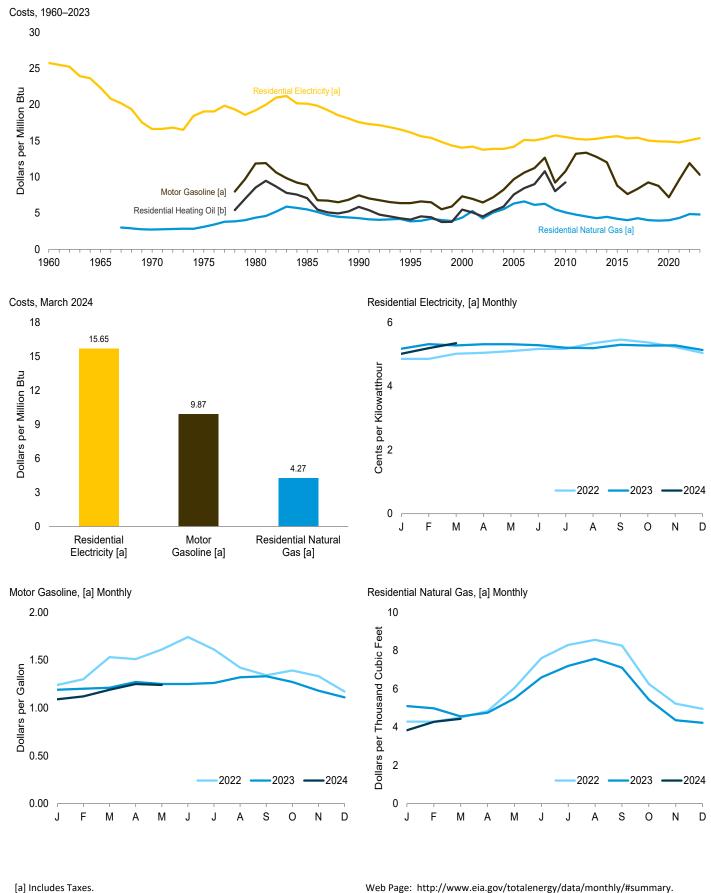
^c Petroleum, coal, natural gas, and electricity.

R=Revised.

Notes: • Monthly data are not adjusted for seasonal variations. • See Note 1, "Merchandise Trade Value," at end of section. • Totals may not equal sum of

Sources: See end of section.

Figure 1.6 Cost of Fuels to End Users In Real (1982-1984) Dollars



[b] Excludes Taxes.

Note: See "Real Dollars" in Glossary.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Tables 1.6.

Table 1.6 Cost of Fuels to End Users in Real (1982–1984) Dollars

	Consumer Price Index,		L		dential	Resid		Resid	
	All Urban Consumers ^a	Motor G	iasoline ^b	Heati	ng Oil ^c	Natura	I Gas ^o	Electi	ricity ^D
	Index 1982–1984=100	Dollars per Gallon	Dollars per Million Btu	Dollars per Gallon	Dollars per Million Btu	Dollars per Thousand Cubic Feet	Dollars per Million Btu	Cents per Kilowatthour	Dollars per Million Btu
1960 Average	29.6	NA	NA	NA	NA	NA	NA	8.8	25.74
1965 Average	31.5	NA	NA	NA	NA	NA	NA	7.6	22.33
1970 Average	38.8	NA	NA	NA	NA	2.81	2.72	5.7	16.62
1975 Average	53.8	NA	NA	NA	NA	3.18	3.12	6.5	19.07
1980 Average	82.4 107.6	1.482	11.85	1.182	8.52	4.47 5.60	4.36	6.6	19.21
1985 Average	107.6 130.7	1.112 0.931	8.89 7.44	0.979 0.813	7.06 5.86	5.69 4.44	5.52 4.31	6.87 5.99	20.13 17.56
1995 Average	152.4	0.791	6.38	0.569	4.10	3.98	3.87	5.51	16.15
2000 Average	172.2	0.908	7.33	0.761	5.49	4.51	4.39	4.79	14.02
2005 Average	195.3	1.197	9.68	1.051	7.58	6.50	6.33	4.84	14.18
2010 Average	218.056	1.301	10.78	1.283	9.25	5.22	5.11	5.29	15.51
2011 Average	224.939	1.590	13.19	NA	NA	4.90	4.80	5.21	15.27
2012 Average	229.594	1.609	13.35	NA	NA	4.64	4.53	5.17	15.17
2013 Average	232.957	1.538	12.77	NA	NA NA	4.43	4.31	5.21	15.26
2014 Average	236.736	1.447	12.01	NA	NA	4.63	4.49	5.29	15.50 15.64
2015 Average2016 Average	237.017 240.007	1.059 0.918	8.80 7.63	NA NA	NA NA	4.38 4.19	4.22 4.03	5.34 5.23	15.64 15.33
2017 Average	245.120	1.007	8.37	NA	NA	4.45	4.29	5.26	15.41
2018 Average	251.107	1.113	9.25	NA	NA	4.18	4.03	5.13	15.02
2019 Average	255.657	1.055	8.77	NA	NA	4.11	3.95	5.09	14.91
2020 Average	258.811	0.866	7.20	NA	NA	4.17	4.01	5.08	14.89
2020 Average	270.970	1.156	9.62	NA	NA	4.50	4.33	5.04	14.77
2021 January	281.148	1.245	10.36	NA	NA	4.28	4.13	4.85	14.22
February	283.716	1.295	10.78	NA	NA	4.28	4.12	4.85	14.21
March	287.504	1.531	12.73	NA	NA	4.50	4.34	5.01	14.69
April	289.109	1.511	12.57	NA	NA	4.83	4.66	5.04	14.77
May	292.296 296.311	1.606 1.738	13.36 14.46	NA NA	NA NA	6.05 7.59	5.82 7.32	5.09 5.16	14.93 15.13
June July	296.276	1.609	13.39	NA	NA NA	8.29	7.98	5.17	15.15
August	296.171	1.420	11.81	NA	NA	8.56	8.24	5.34	15.66
September	296.808	1.344	11.18	NA	NA	8.25	7.95	5.45	15.99
October	298.012	1.386	11.53	NA	NA	6.25	6.02	5.37	15.73
November	297.711	1.329	11.06	NA	NA	5.22	5.03	5.22	15.31
December	296.797	1.165	9.69	NA	NA	4.95	4.77	5.03	14.75
Average	292.655	1.432	11.92	NA	NA	5.04	4.86	5.14	15.06
2023 January	299.170	1.188	9.88	NA	NA	5.10	4.91	5.17	15.16
February	300.840	1.204	10.02	NA	NA NA	4.98	4.80	5.31	15.57
March	301.836 303.363	1.213 1.265	10.09 10.53	NA NA	NA NA	4.56 4.75	4.39 4.57	5.27 5.31	15.45 15.55
April May	304.127	1.248	10.33	NA NA	NA NA	5.49	5.29	5.31	15.56
June	305.109	1.252	10.42	NA	NA	6.59	6.35	5.28	15.48
July	305.691	1.257	10.45	NA	NA	7.19	6.93	5.20	15.23
August	307.026	1.324	11.01	NA	NA	7.57	7.29	5.19	15.21
September	307.789	1.334	11.10	NA	NA	7.10	6.84	5.29	15.51
October	307.671	1.271	10.57	NA	NA	5.43	5.23	5.27	15.43
November	307.051	1.180	9.82	NA	NA	4.35	4.19	5.27	15.45
December Average	306.746 304.702	1.112 1.238	9.25 10.29	NA NA	NA NA	4.22 5.00	4.06 4.82	5.13 5.24	15.03 15.37
•	308.417	1.087	9.04	NA	NA	3.83	3.69	5.01	14.68
2023 January	308.417 310.326	1.087	9.04	NA NA	NA NA	3.83 4.27	3.69 4.11	5.01	15.21
March		1.123	9.87	NA	NA NA	R 4.43	R 4.27	R 5.34	R 15.65
April		1.246	10.37	NA	NA	NA	NA	NA NA	NA
May	314.069	1.237	10.29	NA	NA	NA	NA	NA	NA

^a Data are U.S. city averages for all items, and are not seasonally adjusted.

R=Revised. NA=Not available.

Notes: • See "Real Dollars" in Glossary. • Fuel costs are calculated by using the Urban Consumer Price Index (CPI) developed by the Bureau of Labor Statistics.

• Annual averages may not equal average of months due to independent rounding.

• Geographic coverage is the 50 states and the District of Columbia.

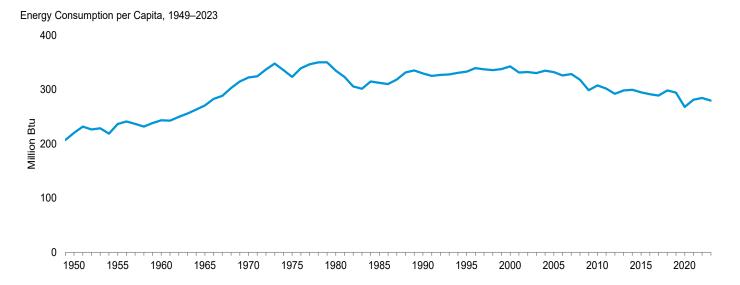
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary (Excel and CSV files) for all available annual data beginning in 1960 and monthly data beginning in 1995.

Sources: • Fuel Prices: Tables 9.4 (All Grades), 9.8, and 9.10, adjusted by the CPI; and *Monthy Energy Review*, September 2012, Table 9.8c. • Consumer Price Index, All Urban Consumers: U.S. Department of Labor, Bureau of Labor Statistics, series ID CUUR0000SA0. • Conversion Factors: Tables A1, A3, A4, and A6.

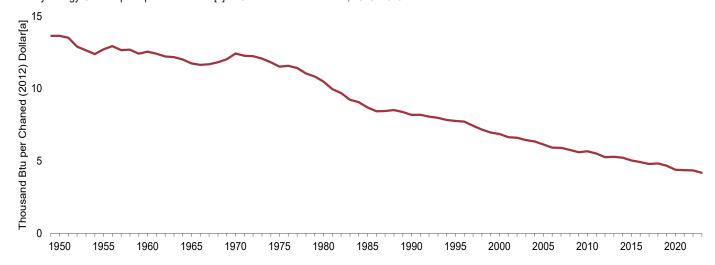
b Includes taxes.

c Excludes taxes.

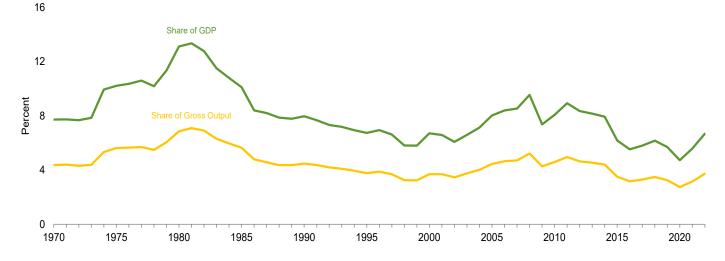
Figure 1.7 Primary Energy Consumption and Energy Expenditures Indicators



Primary Energy Consumption per Real Dollar [a] of Gross Domestic Product, 1949–2023



Energy Expenditures as Share of Gross Domestic Product and Gross Output,[b] 1970–2022



[a] See "Chained Dollars" and "Real Dollars" in Glossary.

[b] Gross output is the value of gross domestic product (GDP) plus the value of intermediate inputs used to produce GDP.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.7.

Table 1.7 Primary Energy Consumption, Energy Expenditures, and Carbon Dioxide Emissions Indicators

	Primar	y Energy Cons	sumptiona		Energy E	xpenditures ^b		Carbo	on Dioxide Em	issions ^c
	Consump- tion	Consump- tion per Capita	Consumption per Real Dollar ^d of GDP ^e	Expendi- tures	Expendi- tures per Capita	Expenditures as Share of GDP ^e	Expenditures as Share of Gross Output ^f	Emissions	Emissions per Capita	Emissions per Real Dollar ^d of GDP ^e
	Quadrillion Btu	Million Btu	Thousand Btu per Chained (2017) Dollar ^d	Million Nominal Dollars ^g	Nominal Dollars ^g	Percent	Percent	Million Metric Tons Carbon Dioxide	Metric Tons Carbon Dioxide	Metric Tons Carbon Dioxide per Million Chained (2017) Dollars ^d
1950	33.527 39.215 43.942 52.565 66.036 69.788 76.038 74.159 70.489 74.237 74.268 74.458 77.161 81.025 82.711 82.256 82.214 83.836 85.191 87.053 88.668 91.404 91.956 92.602 94.232 96.694 94.416 95.575 95.806 98.033 98.101 97.235 98.965 96.647 91.626	220 236 243 271 322 323 335 323 306 302 315 312 310 318 331 335 327 328 331 335 327 328 331 333 337 338 331 333 339 337 336 338 331 332 336 338 331 332 336 338 339 339 339 339 339 339 339 339 339	13.64 12.72 12.55 11.74 12.42 11.51 10.48 9.97 9.69 9.22 9.06 8.70 8.43 8.44 8.51 8.38 8.19 8.06 7.97 7.83 7.77 7.72 7.43 7.16 6.96 6.63 6.63 6.60 6.44 6.35 6.14 5.92 5.90 5.76 5.60	NA NA NA NA 82,875 171,854 374,350 427,901 426,482 417,622 435,313 438,343 384,091 397,627 411,568 439,051 474,652 472,440 476,845 492,275 504,856 514,624 560,293 567,962 526,283 558,627 687,711 696,242 663,964 755,070 871,210 1,045,730 1,158,821 1,233,869 1,408,759 1,066,528	NA NA NA NA 404 796 1,647 1,865 1,841 1,786 1,846 1,842 1,599 1,641 1,683 1,779 1,901 1,867 1,859 1,894 1,919 1,933 2,080 2,083 1,908 2,002 2,437 2,443 2,308 2,603 2,975 3,539 3,884 4,093 4,633 3,477	NA NA NA NA NA T-7- 10.2 13.1 13.3 12.8 11.5 10.8 10.1 8.4 8.2 7.9 7.8 8.0 7.7 7.3 7.2 6.9 6.7 6.9 6.6 5.8 5.8 6.7 6.6 6.1 6.6 7.1 8.0 8.4 8.5 9.5 7.4	NA NA NA NA 4.4 5.6 6.9 7.1 6.9 6.3 6.0 5.6 4.8 4.4 4.5 4.4 4.5 4.4 4.5 3.8 3.9 3.7 3.2 3.7 3.5 3.7 4.0 4.4 4.6 4.7 5.2 4.3	2,382 2,685 2,914 3,462 4,261 4,428 4,756 4,613 4,605 4,616 4,776 4,998 5,085 5,085 5,085 5,085 5,085 5,182 5,262 5,324 5,518 5,589 5,518 5,589 5,518 5,589 5,637 5,700 5,889 5,778 5,820	15.6 16.2 16.1 17.8 20.8 20.5 20.9 20.2 19.0 18.8 19.6 19.4 19.2 19.7 20.4 20.6 20.2 19.7 19.8 19.9 20.0 20.5 20.5 20.5 20.4 20.5 20.5 20.5 20.5 20.6 20.2 19.7 19.8 19.9 20.0 20.5 20.5 20.5 20.5 20.6 20.5 20.5 20.6 20.5 20.5 20.6 20.5 20.6 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5	969 871 833 773 802 731 655 623 603 574 563 529 523 523 525 515 501 497 489 485 473 467 466 452 436 421 418 406 402 396 388 376 361 359 347 331
2010	91.626 95.142 93.966 91.677 94.253 95.335 94.484 94.092 93.902 97.405 96.603 88.852 93.363 94.791	299 308 302 292 298 300 295 291 289 298 294 268 281 284 279	5.60 5.67 5.51 5.26 5.29 5.22 5.03 4.92 4.79 4.82 4.67 4.39 4.36 4.34 4.18	1,065,528 1,214,278 R 1,392,469 1,355,175 R 1,376,403 R 1,395,432 R 1,128,449 R 1,038,885 R 1,136,316 R 1,271,998 R 1,223,875 R 1,007,680 R 1,316,978 R 1,719,438 NA	3,477 3,926 4,469 4,318 4,356 4,384 3,519 3,217 3,497 R 3,894 3,729 3,040 R 3,966 R 5,159 NA	7.4 8.1 8.9 8.3 8.2 7.9 6.2 5.5 5.8 6.2 5.7 4.7 5.6 8 6.7 NA	4.3 4.6 5.0 4.6 4.5 3.5 3.2 3.3 3.5 3.2 2.7 3.2 2.7 3.2 8.3,7	5,404 5,594 5,455 5,236 5,359 5,414 5,262 5,169 5,132 5,278 5,147 4,584 4,906 4,939 F 4,793	17.6 18.1 17.5 16.7 17.0 16.4 16.0 15.8 16.2 15.7 13.8 14.8	331 333 320 300 301 296 280 270 262 261 249 227 229 226 214

a See "Primary Energy Consumption" in Glossary.

Calculated as energy consumption divided by U.S. population (see Table C1).

• Consumption per Real Dollar of GDP: Calculated as energy consumption divided by U.S. gross domestic product in chained (2017) dollars (see Table C1).

• Expenditures: U.S. Energy Information Administration, "State Energy Price and Expenditure Estimates, 1970 Through 2021" (June 2023), U.S. Table ET1.

• Expenditures per Capita: Calculated as energy expenditures divided by U.S. population (see Table C1).

• Expenditures as Share of GDP: Calculated as energy expenditures divided by U.S. gross domestic product in nominal dollars (see Table C1).

• Expenditures divided by U.S. gross output (see Table C1).

• Emissions: 1949—1972—U.S. Energy Information Administration, Annual Energy Review 2011, Table 11.1. 1973 forward—Table 11.1.

• Emissions per Capita: Calculated as carbon dioxide emissions divided by U.S. population (see Table C1).

• Emissions per Real Dollar of GDP: Calculated as carbon dioxide emissions divided by U.S. gross domestic product in chained (2017) dollars (see Table C1).

b Expenditures include taxes where data are available.

^c Carbon dioxide emissions from energy consumption. See Table 11.1.

Gee "Chained Dollars" and "Real Dollars" in Glossary.

^e See "Gross Domestic Product (GDP)" in Glossary.

^f Gross output is the value of GDP plus the value of intermediate inputs used to produce GDP. Through 1996, data have been adjusted by EIA based on DOC/BEA's 2012 comprehensive revision.

^g See "Nominal Dollars" in Glossary.

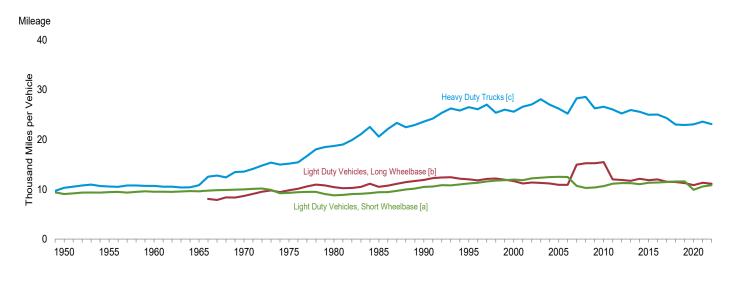
R=Revised. NA=Not available.

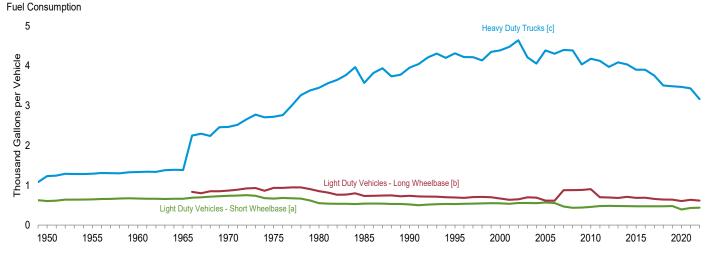
Notes: • Data are estimates. • Geographic coverage is the 50 states and the District of Columbia.

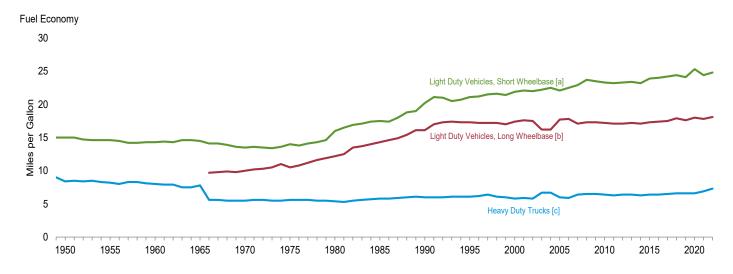
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary (Excel and CSV files) for all available annual data beginning in 1949.

Sources: • Consumption: Table 1.3. • Consumption per Capita:

Figure 1.8 Motor Vehicle Mileage, Fuel Consumption, and Fuel Economy, 1949-2022







[a] Through 1989, data are for passenger cars and motorcycles. For 1990–2006, data are for passenger cars only. Beginning in 2007, data are for light-duty vehicles (passenger cars, light trucks, vans, and sport utility vehicles) with a wheelbase less than or equal to 121 inches.

[b] For 1966–2000, data are for vans, pickup trucks, and sport utility vehicles. Beginning in 2007, data are for light-duty vehicles (passenger cars, light trucks, vans, and sport utility vehicles) with a wheelbase greater than 121 inches.

[c] For 1949–1965, data are for single-unit trucks with 2 axles and 6 or more tires, combination trucks, and other vehicles with 2 axles and 4 tires that are not

passenger cars. For 1966–2006 data are for single-unit truck with 2 axles and 6 or more tires, and combination trucks. Beginning in 2007, data are for single-unit trucks with 2 axles and 6 or more tires (or a gross vehicle weight rating exceeding 10,000 pounds), and combination trucks.

Note: Through 1965, "Light-Duty Vehicles, Long Wheelbase" data are included in "Heavy-Duty Trucks."

Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary.

Table 1.8 Motor Vehicle Mileage, Fuel Consumption, and Fuel Economy

		ght-Duty Vehic Short Wheelbas			ght-Duty Vehicl ong Wheelbase		н	eavy-Duty Truc	ks ^c	A	II Motor Vehicle	es ^d
	Mileage	Fuel Consumption	Fuel Economy	Mileage	Fuel Consumption	Fuel Economy	Mileage	Fuel Consumption	Fuel Economy	Mileage	Fuel Consumption	Fuel Economy
	Miles per	Gallons	Miles per	Miles per	Gallons	Miles per	Miles per	Gallons	Miles per	Miles per	Gallons	Miles per
	Vehicle	per Vehicle	Gallon	Vehicle	per Vehicle	Gallon	Vehicle	per Vehicle	Gallon	Vehicle	per Vehicle	Gallon
1950 1955	9,060 9,447	603 645	15.0 14.6	(e)	(e) (e)	(e)	10,316 10,576	1,229 1,293	8.4 8.2	9,321 9,661	725 761	12.8 12.7
1960	9,518	668	14.3	(e)	(e)	(e)	10,693	1,333	8.0	9,732	784	12.4
1965	9,603	661	14.5	(e)	(e)	(e)	10,851	1,387	7.8	9,826	787	12.5
1970	9,989	737	13.5	8,676	866	10.0	13,565	2,467	5.5	9,976	830	12.0
1975	9,309	665	14.0	9,829	934	10.5	15,167	2,722	5.6	9,627	790	12.2
1980	8,813	551	16.0	10,437	854	12.2	18,736	3,447	5.4	9,458	712	13.3
1981	8,873	538	16.5	10,244	819	12.5	19,016	3,565	5.3	9,477	697	13.6
1982	9,050	535	16.9	10,276	762	13.5	19,931	3,647	5.5	9,644	686	14.1
1983	9,118	534	17.1	10,497	767	13.7	21,083	3,769	5.6	9,760	686	14.2
1984	9,248	530	17.4	11,151	797	14.0	22,550	3,967	5.7	10,017	691	14.5
1985	9,419	538	17.5	10,506	735	14.3	20,597	3,570	5.8	10,020	685	14.6
1986	9,464	543	17.4	10,764	738	14.6	22,143	3,821	5.8	10,143	692	14.7
1987	9,720	539	18.0	11,114	744	14.9	23,349	3,937	5.9	10,453	694	15.1
1988	9,972	531	18.8	11,465	745	15.4	22,485	3,736	6.0	10,721	688	15.6
1989	10,157	533	19.0	11,676	724	16.1	22,926	3,776	6.1	10,932	688	15.9
1990	10,504	520	20.2	11,902	738	16.1	23,603	3,953	6.0	11,107	677	16.4
1991	10,571	501	21.1	12,245	721	17.0	24,229	4,047	6.0	11,294	669	16.9
1992	10,857	517	21.0	12,381	717	17.3	25,373	4,210	6.0	11,558	683	16.9
1993	10,804	527	20.5	12,430	714	17.4	26,262	4,309	6.1	11,595	693	16.7
1994	10,992	531	20.7	12,156	701	17.3	25,838	4,202	6.1	11,683	698	16.7
1995	11,203	530	21.1	12,018	694	17.3	26,514	4,315	6.1	11,793	700	16.8
1996	11,330	534	21.2	11,811	685	17.2	26,092	4,221	6.2	11,813	700	16.9
1997	11,581	539	21.5	12,115	703	17.2	27,032	4,218	6.4	12,107	711	17.0
1998		544	21.6	12,173	707	17.2	25,397	4,135	6.1	12,211	721	16.9
1999		553	21.4	11,957	701	17.0	26,014	4,352	6.0	12,206	732	16.7
2000	11,976	547	21.9	11,672	669	17.4	25,617	4,391	5.8	12,164	720	16.9
2001	11,831	534	22.1	11,204	636	17.6	26,602	4,477	5.9	11,887	695	17.1
2002	12,202	555	22.0	11,364	650	17.5	27,071	4,642	5.8	12,171	719	16.9
2003 2004 2005	12,325 12,460	556 553 567	22.2 22.5 22.1	11,287 11,184 10,920	697 690 617	16.2 16.2 17.7	28,093 27,023 26,235	4,215 4,057 4,385	6.7 6.7 6.0	12,208 12,200 12,082	718 714 706	17.0 17.1 17.1
2006	12,485	554	22.5	10,920	612	17.8	25,231	4,304	5.9	12,017	698	17.2
2007		* 468	a 22.9	b 14,970	6877	b 17.1	° 28,290	° 4,398	6.4	11,915	693	17.2
2008		435	23.7	15,256	880	17.3	28,573	4,387	6.5	11,631	667	17.4
2009	10,391	442	23.5	15,252	882	17.3	26,274	4,037	6.5	11,631	661	17.6
2010	10,650	456	23.3	15,474	901	17.2	26,604	4,180	6.4	11,866	681	17.4
2011	11,150	481	23.2	12,007	702	17.1	26,054	4,128	6.3	11,652	665	17.5
2012	11,262	484	23.3	11,885	694	17.1	25,255	3,973	6.4	11,707	665	17.6
2013	11,244	480	23.4	11,712	683	17.2	25,951	4,086	6.4	11,679	663	17.6
2014	11,048	476	23.2	12,138	710	17.1	25,594	4,036	6.3	11,621	666	17.5
2015	11,327	475	23.9	11,855	684	17.3	24,979	3,904	6.4	11,742	656	17.9
2016	11,370	475	24.0	11,991	689	17.4	25,037	3,904	6.4	11,810	658	17.9
2017	11,467	474	24.2	11,543	659	17.5	24,335	3,758	6.5	11,789	653	18.1
2018	11,576	475	24.4	11,486	643	17.9	23,037	3,507	6.6	11,843	651	18.2
2019	11,599	481	24.1	11,263	640	17.6	22,930	3,488	6.6	11,797	651	18.1
2020	9,928	393	25.3	10,855	603	18.0	23.075	3,470	6.6	10.523	577	18.2
2021	10,573	433	24.4	11,318	636	17.8	23,601	3,436	6.9	11,099	617	18.0
	10,847	437	24.8	11,142	617	18.1	23,111	3,167	7.3	11,278	608	18.5

^a Through 1989, data are for passenger cars and motorcycles. For 1990–2006, data are for passenger cars only. Beginning in 2007, data are for light-duty vehicles (passenger cars, light trucks, vans, and sport utility vehicles) with a wheelbase less than or equal to 121 inches.

b For 1966-2006, data are for vans, pickup trucks, and sport utility vehicles. Beginning in 2007, data are for light-duty vehicles (passenger cars, light trucks, vans, and sport utility vehicles) with a wheelbase greater than 121 inches.

^c For 1949–1965, data are for single-unit trucks with 2 axles and 6 or more tires,

combination trucks, and other vehicles with 2 axles and 4 tires that are not passenger cars. For 1966-2006, data are for single-unit trucks with 2 axles and 6 or more tires, and combination trucks. Beginning in 2007, data are for single-unit trucks with 2 axles and 6 or more tires (or a gross vehicle weight rating exceeding

^{10,000} pounds), and combination trucks.

d Includes buses and motorcycles, which are not separately displayed.

Included in "Heavy-Duty Trucks."

Note: Geographic coverage is the 50 states and the District of Columbia.

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

Sources: • Light-Duty Vehicles, Short Wheelbase: 1990–1994–0.5.

Department of Transportation Bureau of Transportation Statistics, National All Other Data:

Statistics 1998, Table 4-13. • All Other Data:

All Other Data: 1949–1994—Federal Highway Administration (FHWA), Highway Statistics Summary to 1995, Table VM-201A. 1995 forward—FHWA, Highway Statistics, annual reports, Table VM-1.

Table 1.9 Light-Duty Vehicle Average Miles Traveled by Technology Type

(Miles per Vehicle^a)

	Interna	al Combustion Engine V	ehicles	Electric Vehicles			
	Motor Gasoline Vehicles ^b	Diesel Vehicles	Hybrid Electric Vehicles ^c	Battery Electric Vehicles ^d	Plug-in Hybrid Electric Vehicles ^e		
2016	9,945	_ 10,647	_ 12,161	_6,793	_ 9,634		
2017	E 10,070	E 10,218	E 12,037	^E 6,057	^E 9,300		
2018	10,217	10,494	12,013	5,594	9,245		
2019	9,893	9,792	11,507	6,060	8,855		
2020	10,142	10,139	11,537	6,670	9,359		
2021	9,893	10,265	10,757	6,569	8,668		
2022	9.847	10.681	10,537	7.039	8,704		

^a See Note 2, "Light-Duty Vehicle Average Annual Miles Traveled by Technology Type" at end of section.

Note: • Data are for on-road vehicles less than or equal to 8,500 pounds

(includes passenger cars and light trucks). • Data are derived from vehicle odometer reading data. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary (Excel and CSV files) for all available annual data beginning in 2016.

Source: • Calculated by EIA using S&P Global Mobility Odometer data and Vehicles in Operation data, 2016–2022.

b Does not include hybrid electric vehicles.

^c See "Hybrid Electric Vehicle (HEV)" in Glossary.

^d See "Battery Electric Vehicle (BEV)" in Glossary.

^e See "Plug-in Hybrid Electric Vehicle (PHEV)" in Glossary. E=Estimate.

Table 1.10 Electric and Fuel Cell Electric Light-Duty Vehicles Overview

	EI	lectric Light-Duty Vehicles	3			Floatsia Vakiala
	Battery Electric Vehicles ^a	Plug-In Hybrid Electric Vehicles ^b	Total	Fuel Cell Electric Vehicles ^c	All Light-Duty Vehicles ^d	Electric Vehicle Share of All Light-Duty Vehicles
		Thousa	nds of Registered V	ehicles		Percent
2012	_ 29.7	_ 64.7	_ 94.4	_ 0.1	_ 231,872.8	(s) E 0.1
2013	E 85.7	E 108.9	E 194.7	€ 0.2	E 237,326.1	
2014	_ 127.4	_ 158.8	_ 286.2	_ 0.1	_ 240,796.6	_ 0.1
2015	^E 194.8	E 196.7	E 391.5	^E 0.2	E 248,926.1	E 0.2
2016	272.6	239.0	511.7	1.1	251,219.0	0.2
2017	E 353.3	E368.3	E 721.6	^E 4.6	E 257,206.5	^E 0.3
2018	573.0	491.2	1,064.2	5.9	259,182.4	0.4
2019	755.7	561.2	1.316.9	7.6	261,451.1	0.5
2020	973.5	613.0	1.586.5	8.2	259,976.0	0.6
2021	1,422.0	774.9	2,196.9	11.4	263,152.3	0.8
2022	2,115.6	936.9	3.052.5	13.9	263,764.2	1.2

Pincludes internal combustion engine vehicles, electric vehicles, and fuel cell electric vehicles.

E=Estimate. (s)=Less than 0.05 percent.

Notes: • Data are at end of year. • Data are for on-road vehicles less than or equal to 8,500 pounds (includes passenger cars and light trucks). • Data for 2013, 2015, and 2017 are estimates. • The federal government and some states self-register their state-owned vehicles. These vehicles are not included in number of registered vehicles. • Geographic coverage is the 50 states and the District of of registered vehicles. • Geographic coverage is the 50 states and the District of

Columbia.
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary (Excel and CSV files) for all available annual data beginning in 2012.
Sources: • Electric Light-Duty Vehicles, Fuel Cell Electric Vehicles, and All Light-Duty Vehicles: S&P Global Mobility Vehicles in Operation, as of calendar year end figures for each of the years shown. Data for 2013, 2015, and 2017 are estimates interpolated by EIA. • Electric Vehicle Share of All Light Duty-Vehicles (defined by EIA as less than or equal to 8,500 lbs): Calculated as battery electric and plug-in hybrid electric light-duty vehicles divided by all light-duty vehicles by EIA.

a See "Battery Electric Vehicle (BEV)" in Glossary.
 b See "Plug-In Hybrid Electric Vehicle (PHEV)" in Glossary.
 c See "Fuel Cell Electric Vehicle (FCEV)" in Glossary.

d Includes internal combustion engine vehicles, electric vehicles, and fuel cell

Table 1.11 Heating Degree Days by Census Division

	New England ^a	Middle Atlantic ^b	East North Central ^c	West North Centrald	South Atlantic ^e	East South Central ^f	West South Central ^g	Mountain ^h	Pacific ⁱ	United States
IDEO Total	6,793	6,313	7,028	7,461	3.495	3,552	2,280	6,320	3,910	5,362
1950 Total 1955 Total	6,872	6,220	6,488	6,918	3,493	3,517	2,295	6,686	4,324	5,242
1960 Total	6.826	6,376	6,909	7,191	3.764	4,139	2,767	6,264	3.806	5,400
965 Total	7,027	6,379	6,588	6,938	3,358	3,505	2,238	6,067	3,825	5,143
970 Total	7,022	6,376	6,721	7,094	3,437	3,827	2,561	6,098	3,731	5,214
975 Total	6,545	5,881	6,407	6,886	2,953	3,441	2,311	6,237	4,120	4,900
980 Total	7,071	6,463	6,976	6,840	3,361	3,969	2,495	5,534	3,544	5,075
985 Total	6,750	5,957	6,668	7,269	2,892	3,663	2,537	6,040	3,939	4,886
990 Total	5,988	5,240	5,779	6,141	2,301	2,947	1,967	5,370	3,610	4,178
995 Total	6,686	6,079	6,741	6,916	2,984	3,653	2,148	5,079	3,274	4,637
000 Total	6,624	5,986	6,317	6,504	2,902	3,555	2,152	4,952	3,464	4,491
005 Total	6,645	5,938	6,224	6,218	2,773	3,384	1,985	4,873	3,383	4,346
010 Total	5,935	5,539	6,188	6,570	3,163	3,954	2,450	5,060	3,628	4,461
011 Total	6,113	5,471	6,173	6,569 5,500	2,564	3,347	2,113	5,304	3,823	4,312
012 Total 013 Total	5,563 6,425	4,960 5,827	5,356 6,623	5,520 7,140	2,304 2,736	2,880 3,651	1,648 2,325	4,560 5,262	3,418 3,367	3,771 4.470
)14 Total	6,676	6,190	7,196	7,308	2,730	3,935	2,323 2,421	4,737	2,777	4,558
)15 Total	6.520	5.762	6,165	6.093	2,497	3,224	2,085	4,737	2,902	4,094
016 Total	5,928	5,339	5,701	5,791	2,464	3,095	1,750	4,617	3,035	3,887
017 Total	6.037	5,318	5.684	6.003	2.239	2.837	1,730	4.571	3,190	3.838
018 Total	6,323	5,769	6,434	6,974	2,638	3,479	2,252	4,808	3,172	4,291
019 Total	6,538	5,736	6.427	7.082	2,392	3,181	2,143	5,309	3,547	4,317
020 Total	5,822	5,199	5,855	6,326	2,263	3,064	1,812	4,784	3,219	3,914
021 Total	5,799	5,262	5,747	6,061	2,366	3,166	1,911	4,694	3,338	3,934
	1,303	1,242	1,391	1,442	644	847	578	888	549	914
February	994	933	1,084	1,194	412	591	498	806	478	712
March	841	758	791	847	286	388	263	608	401	525
April	544	495	567	578	156	217	52	422	337	342
May	187	146	159	185	31	32	4	240	213	122
June	53	27	26	30	1	1	0	69	56	26
July	3	2	.3	9	0	0	0	. 7	10	4
August	3	3	14	18	0	0	0	11	8	6
September	108	67	82 405	84	13	23	2	66	31	44
October	386 614	393 588	425 695	405 825	177	240 429	66 298	311	140	258
November December	983	980	1.105	025 1.289	267 536	429 671	439	770 926	516 627	511 781
Total	6,019	5,636	6,344	6,905	2,523	3,438	2,200	5,125	3,366	4,245
	,		•	0,303	•	,	,	•	•	
)23 January	R 924	845	997	1,183	450	576	401	R 964	R 632	715
February	R 938	815	R 880	R 1,030	307	R 413	R 328	R 826	592	621
March	R 851	796	849	R 956	R 301	397	R 199	R 773	R 611	586
April	R 466	R 367	441	488 8 4 4 0	117	R 188	R 86	R 447	R 353	R 297
May	R 281	R 244	215	R 146	65	R 61	6	182	195 B 112	146
June	66	R 43 1	43 7	23 17	9 0	R 6	0 0	101	R 113	44 5
July	1 24	13	21	17	0	0 0	0	11 R 19	11	10
August September	24 64	58	68	17 59	9	13	1	98	10 R 7 9	R 46
October	R 286	274	338	R 361	110	145	47	317	R 173	207
November	787	R 715	R 735	R 747	R 327	R 416	R 254	R 574	R 385	505
December	R 852	R 791	R 825	903	R 454	R 598	391	R 772	R 482	R 625
Total	R 5,541	R 4,962	R 5,418	R 5,930	R 2,150	R 2,815	R 1,714	R 5,083	3,637	R 3,806
024 January	R 1.087	R 1,021	R 1,191	1.340	^R 575	R 855	^R 635	919	578	R 841
February	R 911	832	R 774	R 760	405	R 449	R 254	R 667	484	R 572
March	762	671	689	738	271	356	184	627	477	486
3-Month Total	2,761	2,524	2,655	2,838	1,250	1,660	1,074	2,213	1,539	1,899
3-MOHUH TOLAH	-,									-,
3-Month Total	2.713	2,456	2,726	3,169	1,059	1,387	928	2,562	1,835	1,922

a Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

Notes: • Degree days are relative measurements of outdoor air temperature used as an index for heating and cooling energy requirements. Heating degree days are the number of degrees that the daily average temperature falls below 65 degrees Fahrenheit (°F). Cooling degree days are the number of degrees that the

daily average temperature rises above 65°F. The daily average temperature is the mean of the maximum and minimum temperatures in a 24-hour period. For example, a weather station recording an average daily temperature of 40°F would report 25 heating degree days for that day (and 0 cooling degree days). If a weather station recorded an average daily temperature of 78°F, cooling degree days for that station would be 13 (and 0 heating degree days). • 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/#summary (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

State-level degree day data are from U.S. Department of National Oceanic and Atmospheric Administration, National Sources: Commerce, Centers for Environmental Information. Using these state-level data, the Energy Information Administration calculates population-weighted census-division and U.S. degree day averages using state populations from the same year the degree days are measured. So http://www.eia.gov/forecasts/steo/special/pdf/2012_sp_04.pdf. See methodology at

b New Jersey, New York, and Pennsylvania.

Illinois, Indiana, Michigan, Ohio, and Wisconsin. Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, and South

e Delaware, Florida, Georgia, Maryland (and the District of Columbia), North Carolina, South Carolina, Virginia, and West Virginia.

Alabama, Kentucky, Mississippi, and Tennessee.

Arkansas, Louisiana, Oklahoma, and Texas.

h Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming.

i Alaska, California, Hawaii, Oregon, and Washington.

R=Revised.

Table 1.12 Cooling Degree Days by Census Division

	New England ^a	Middle Atlantic ^b	East North Central ^c	West North Central ^d	South Atlantic ^e	East South Central ^f	West South Central ^g	Mountain ^h	Pacific ⁱ	United States
950 Total	296	403	506	646	1,427	1,419	2,279	689	628	873
955 Total	531	764	921	1,139	1,645	1,672	2,505	787	557	1,145
960 Total	318	488	626	870	1,597	1,529	2,366	983	794	1,002
965 Total	311 423	502 619	617 746	831 979	1,624 1.758	1,550 1.569	2,461 2.281	788 981	575 732	981 1.082
970 Total 975 Total	423 423	586	740 720	979 937	1,756	1,369	2,261	913	732 597	1,052
980 Total	439	683	768	1,158	1,923	1,751	2,652	1,083	651	1,216
985 Total	324	513	602	780	1,882	1,519	2,519	1,107	758	1,122
990 Total	428	566	602	912	2,058	1,560	2,527	1,224	833	1,201
995 Total	472	705	878	928	2,030	1,611	2,398	1,226	791	1,262
000 Total	279	460	630	983	1,925	1,672	2,773	1,494	771	1,233
05 Total	599	895	944	1,063	2,100	1,674	2,645	1,386	777	1,390
)10 Total	634	913	963	1,095	2,271	1,974	2,754	1,370	674	1,457
111 Total	553	840	858	1,074	2,260	1,725	3,112	1,462	734	1,470
)12 Total	563	819	974	1,221	2,163	1,760	2,913	1,582	917	1,494
13 Total	540 420	685 600	689 609	892 812	2,001 2.001	1,438 1.491	2,535 2.474	1,471 1.439	889 1,068	1,305 1,296
014 Total 015 Total	556	809	729	941	2,001	1,491	2,474 2.742	1,439 1,485	1,066	1,296
16 Total	625	891	957	1,072	2,397	1,717	2,742	1,502	929	1,465
117 Total	451	665	708	910	2,247	1,585	2,718	1,550	1,056	1,423
18 Total	668	890	972	1,134	2,411	1,928	2.855	1,574	1,004	1,579
19 Total	536	787	832	951	2,504	1,885	2,759	1,398	845	1,496
20 Total	645	848	831	964	2,335	1,636	2.735	1,683	1,071	1,519
21 Total	604	837	911	1,093	2,226	1,611	2,644	1,583	1,040	1,492
22 <u>January</u>	0	0	0	0	28	3	9	0	9	.8
February	0	0	Ō	0	45	3	.5	.2	.7	11
March	0	0	1	3	84	22	41	13	14	27
April	0	0	0	2	98	25	158	52 407	23	49
May	18	40	79 177	72	240	206	386	127	42	147
June	63 260	114 311	177 264	232 338	376 482	367 480	554 682	290 431	146 247	270 394
July August	273	302	219	276	440 440	385	583	358	297	359
September	33	72	74	121	278	200	404	245	222	202
October	0	1	, <u>, , , , , , , , , , , , , , , , , , </u>	7	106	29	131	67	59	55
November	ŏ	ó	ō	ó	88	5	26	1	11	23
December	ŏ	ŏ	ŏ	ŏ	37	3	13	Ó		1 11
Total	647	838	816	1,050	2,302	1,728	2,992	1,586	1,088	1,556
23 January	0	0	0	0	49	19	35	0	8	17
February	0	0	0	0	69	17	27	0	.8	20
March	0	0	0	1	83	27 R 29	88	3 R 40	10	32 R 43
April	0		1	5	116 ^R 174		93 ^R 291		18	
May	4 50	12 78	49 131	89 ^R 226	293	142 ^R 273	515	116 ^R 193	33 55	109 209
June	R 275	R 307	131 247	282	293 486	R 432	R 648	R 461	R 280	390
July August	R 134	R 192	188	R 280	460	419	R 712	R 362	R 240	349
September	59	80	88	146	R 288	248	R 508	202	R 88	202
October	5	10	10	14	R 137	66	R 173	85	R 55	73
November	ŏ	Ŏ	ŏ	Ö	R 64	4	28	13	14	20
December	Ö	Ö	ŏ	Ŏ	R 37	3	16	0	8	11
Total	R 527	R 681	713	R 1,042	R 2,257	R 1,681	R 3,134	R 1,476	R 818	R 1,474
24 January	0	0	0	0	R 35	2	8	0	7	9
February	0	0	0	4	29	R 10	R 38	R2	6	13
March	0	0	3 3	7	82 146	28 41	81 127	7	8	31
3-Month Total	0	0	•	11	146	41	127	9	21	53
23 3-Month Total	0	0	0	1	202	64	151	3	26	68

a Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

New Jersey, New York, and Pennsylvania.

Alabama, Kentucky, Mississippi, and Tennessee. Arkansas, Louisiana, Oklahoma, and Texas.

Alaska, California, Hawaii, Oregon, and Washington.

R=Revised.

Notes: • Degree days are relative measurements of outdoor air temperature used as an index for heating and cooling energy requirements. Cooling degree days are the number of degrees that the daily average temperature rises above 65 degrees Fahrenheit (°F). Heating degree days are the number of degrees that the

daily average temperature falls below 65°F. The daily average temperature is the mean of the maximum and minimum temperatures in a 24-hour period. For example, if a weather station recorded an average daily temperature of 78°F, cooling degree days for that station would be 13 (and 0 heating degree days). A weather station recording an average daily temperature of 40°F would report 25 heating degree days for that day (and 0 cooling degree days).

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/#summary (Excel and CSV files) for all available annual data beginning in 1949 and monthly data

beginning in 1973. Sources: Sta Sources: State-level degree day data are from U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Centers for Environmental Information. Using these state-level data, the U.S. Energy Information Administration calculates population-weighted census-division and U.S. degree day averages using state populations from the same year the degree days are measured. See methodology at http://www.eia.gov/forecasts/steo/special/pdf/2012_sp_04.pdf.

Illinois, Indiana, Michigan, Ohio, and Wisconsin. d lowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, and South Dakota.

e Delaware, Florida, Georgia, Maryland (and the District of Columbia), North Carolina, South Carolina, Virginia, and West Virginia.

Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming.

Table 1.13a Non-Combustion Use of Fossil Fuels in Physical Units

-			Petroleum									
	Coal	Natural Gas	Asphalt and Road Oil	Hydrocarbon Gas Liquids ^a	Lubricants	Petro- chemical Feedstocks ^b	Petroleum Coke	Special Naphthas	Other ^c	Total		
	Thousand Short Tons	Billion Cubic Feet				Thousand Bar	rels per Day					
1973 Total 1975 Total 1980 Total 1985 Total 1990 Total 1995 Total 2000 Total 2010 Total 2011 Total 2012 Total 2014 Total 2015 Total 2016 Total 2017 Total 2019 Total	3,523 3,105 2,612 1,536 758 921 674 929 719 730 707 732 562 520 435 463 531 520 418 509	898 761 759 642 675 868 918 761 654 680 706 721 725 703 727 746 1,118 1,051 1,074	522 419 396 425 483 486 525 546 362 355 340 327 343 351 351 327 348 343 371	684 654 890 982 1,071 1,357 1,543 1,597 1,639 1,747 1,870 1,918 1,943 2,023 2,309 2,342 2,479 2,652	162 137 159 145 164 156 166 141 131 125 114 121 126 138 130 121 117 113 102 105	356 320 692 395 546 590 662 729 539 520 444 448 410 378 371 394 393 329 329	45 43 41 46 57 58 78 106 42 40 43 40 20 21 20 19 22 21 17 18	88 75 100 83 56 37 51 33 14 12 8 52 55 52 49 52 48 50 45	88 122 143 95 85 70 78 75 89 91 88 93 97 99 100 103 103 103 94 88	1,945 1,770 2,422 2,173 2,462 2,754 3,103 2,997 2,773 2,781 2,785 2,948 2,948 2,966 3,062 3,320 3,318 3,403 3,615		
2022 January February March April May June July August September October November December Total	41 38 41 38 39 37 39 39 37 40 37 38	108 95 99 92 88 83 84 85 83 89 94 99	243 264 272 335 401 493 465 510 472 453 369 256 378	2,849 2,696 2,790 2,657 2,596 2,837 2,941 2,597 2,682 2,636 2,636 2,341 2,685	125 114 139 123 112 93 46 134 99 130 107 105 111	237 203 249 267 276 236 266 252 233 252 228 243 246	16 15 17 16 13 15 27 20 18 12 21 14	41 49 53 45 37 48 51 69 52 45 34 34	98 107 95 94 91 103 99 98 99 92 94 93 97	3,610 3,448 3,614 3,537 3,526 3,825 3,895 3,681 3,655 3,620 3,460 3,085 3,580		
February	39 37 41 37 38 37 39 39 38 8 37 8 40 8 38	99 92 98 92 88 83 85 88 91 96 102 1,097	231 239 258 328 406 472 461 512 476 451 331 253 369	2,517 2,497 2,523 R 2,741 2,895 2,961 2,989 2,762 2,733 2,914 2,980 3,190 2,811	117 112 57 84 97 95 94 74 81 94 55 37	268 221 220 302 294 228 258 240 226 225 259 241 249	8 16 22 23 16 13 8 22 28 18 33 10 18	47 36 48 48 39 45 55 44 45 58 52 43	85 94 95 88 89 92 99 91 101 89 89	3,273 3,215 3,224 3,614 3,837 3,906 3,964 3,744 3,690 3,848 3,797 R 3,864 3,667		
2024 January February March 3-Month Total	36 36 39 111	103 93 97 292	229 226 262 239	2,821 2,985 2,870 2,890	85 74 76 78	229 279 275 260	15 9 9 11	47 46 44 46	89 75 89 84	3,514 3,694 3,625 3,609		
2022 3-Month Total 2021 3-Month Total	117 120	289 302	243 260	2,513 2,781	95 126	237 230	15 16	44 48	91 100	3,238 3,561		

a Ethane, propane, normal butane, isobutane, natural gasoline, and refinery olefins (ethylene, propylene, butylene, and isobutylene).
 b Includes still gas not burned as refinery fuel.
 c Distillate fuel oil, residual fuel oil, waxes, and miscellaneous products.

Notes: • Data are estimates. • Non-combustion use estimates are included in total energy consumption. See Table 1.3. • Non-combustion estimates are all for industrial sector consumption, except for some lubricants consumed by the

transportation sector. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia. • See Note 3, "Non-Combustion Use of Fossil Fuels," at end of section. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary for all available annual and monthly data beginning in 1973.

Sources: • See Note 3, "Non-Combustion Use of Fossil Fuels," at end of sections.

R=Revised.

Table 1.13b Heat Content of Non-Combustion Use of Fossil Fuels

			Petroleum									Danis and of
	Coal	Natural Gas	Asphalt and Road Oil	Hydro- carbon Gas Liquids ^a	Lubri- cants	Petro- chemical Feed- stocks ^b	Petro- leum Coke	Special Naphthas	Other ^c	Total	Total	Percent of Total Energy Consump- tion
1973 Total 1975 Total 1980 Total 1980 Total 1995 Total 1990 Total 2000 Total 2005 Total 2011 Total 2011 Total 2012 Total 2013 Total 2014 Total 2015 Total 2016 Total 2017 Total 2017 Total 2018 Total 2019 Total 2019 Total 2019 Total 2019 Total	0.113 .099 .084 .049 .024 .029 .022 .030 .023 .023 .023 .018 .017 .014 .015 .017	0.916 .777 .777 .662 .695 .892 .942 .782 .669 .695 .724 .741 .749 .730 .755 .774 1.160 1.159 1.092	1.264 1.014 .962 1.029 1.170 1.178 1.276 1.323 .878 .859 .827 .783 .793 .832 .853 .849 .793 .844 .832	0.872 .822 1.128 1.194 1.345 1.716 1.928 1.701 1.931 1.947 2.109 2.270 2.125 2.317 2.330 2.393 2.708 2.746 2.870 3.084	0.359 .304 .354 .362 .362 .346 .369 .312 .291 .276 .254 .268 .280 .305 .289 .267 .259 .259	0.726 .652 1.426 .817 1.123 1.214 1.344 1.096 1.057 .901 .827 .760 .754 .797 .794 .704 .669	0.093 .090 .086 .096 .119 .120 .163 .221 .087 .083 .090 .083 .043 .043 .043 .044 .046 .046	0.169 .144 .193 .159 .107 .071 .097 .063 .026 .023 .015 .100 .106 .099 .094 .100 .092 .096 .087	0.185 .256 .303 .201 .179 .145 .164 .157 .188 .193 .187 .205 .208 .212 .217 .218 .198 .198 .190	3.668 3.283 4.451 3.818 4.406 4.790 5.342 5.250 4.496 4.437 4.382 4.601 4.379 4.564 4.575 4.663 4.910 4.882 4.908 5.208	4.696 4.159 5.312 4.529 5.711 6.306 6.062 5.187 5.156 5.128 5.366 5.310 5.344 5.452 6.087 6.057 6.013 6.340	6.4 6.0 7.0 6.1 6.2 6.4 6.5 5.5 5.6 5.7 5.4 5.6 5.7 5.8 6.3 6.8 6.8
Post January February March April May June July August September October November December Total	.001 .001 .001 .001 .001 .001 .001 .001	.112 .099 .103 .095 .091 .087 .088 .088 .092 .098 .103	.050 .049 .056 .067 .083 .098 .096 .105 .094 .093 .073 .053	.270 .230 .266 .243 .246 .262 .282 .252 .250 .250 .240 .220	.024 .019 .026 .022 .021 .017 .009 .025 .018 .024 .020	.041 .031 .043 .045 .048 .040 .046 .044 .039 .044 .038 .042	.003 .002 .003 .003 .002 .003 .005 .003 .002 .004	.007 .007 .009 .007 .006 .008 .008 .011 .008 .007 .005	.017 .017 .016 .016 .018 .018 .017 .016 .016	.411 .357 .420 .403 .422 .445 .463 .459 .429 .438 .396 .359	.524 .457 .524 .499 .515 .533 .551 .548 .517 .531 .496 .463 6.158	5.8 5.7 6.5 6.9 7.0 6.8 7.0 7.2 6.4 5.4 6.5
Petron January February March April May June July August September October November December Total	.001 .001 .001 .001 .001 .001 .001 .001	.103 .095 .102 .096 .091 .086 .088 .091 .088 .095 .100 .106	.048 .044 .053 .065 .084 .094 .095 .105 .095 .093 .066 .052	.238 .209 .236 .250 .274 .275 .287 .265 .254 .281 .279 .302 3.151	.022 .019 .011 .015 .018 .017 .018 .014 .015 .018 .010	.046 .035 .038 .051 .051 .038 .045 .042 .037 .039 .043	.001 .003 .004 .004 .003 .002 .001 .004 .005 .003 .006 .002	.008 .005 .008 .008 .006 .007 .009 .007 .009 .008 .007	.015 .015 .017 .015 .016 .016 .018 .016 .018 .016 .015	.379 .330 .367 .408 .452 .449 .473 .454 .430 .459 .427 .427	.483 .426 .470 .505 .545 .537 .562 .546 .519 .555 .528 .534 6.209	5.7 5.6 5.8 7.0 7.4 7.2 6.9 6.6 7.0 7.3 6.7 6.4 6.6
2024 January February March 3-Month Total	.001 .001 .001	.107 .096 .100 .303	.047 .044 .054 .145	.269 .262 .272 . 803	.016 .013 .014 .043	.039 .045 .048 .131	.003 .002 .002 . 006	.008 .007 .007 . 022	.016 .013 .016 .044	.397 .384 .412 1.194	.505 .482 .514 1.501	5.6 6.2 6.7 6.2
2022 3-Month Total 2021 3-Month Total	.004 .004	.300 .314	.145 .155	.683 .767	.052 .069	.119 .115	.008 800.	.021 .022	.047 .052	1.075 1.188	1.379 1.506	5.7 6.0

a Ethane, propane, normal butane, isobutane, natural gasoline, and refinery olefins (ethylene, propylene, butylene, and isobutylene).

b Includes still gas not burned as refinery fuel.

^c Distillate fuel oil, residual fuel oil, waxes, and miscellaneous products.

Notes: • Data are estimates. • Non-combustion use estimates are included in total energy consumption. See Table 1.3. • Non-combustion estimates are all for industrial sector consumption, except for some lubricants consumed by the transportation sector. • Totals may not equal sum of components due to

independent rounding. • Geographic coverage is the 50 states and the District of Columbia. • See Note 3, "Non-Combustion Use of Fossil Fuels," at end of section. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary for all available annual and monthly data beginning in 1973.

Sources: • See Note 3, "Non-Combustion Use of Fossil Fuels," at end of section. • Percent of Total Energy Consumption: Calculated as total non-combustion use of fossil fuels divided by total primary energy consumption (see Table 1.3) (see Table 1.3).

Energy Overview

Note 1. Merchandise Trade Value. Imports data presented are based on the customs values. Those values do not include insurance and freight and are consequently lower than the cost, insurance, and freight (CIF) values, which are also reported by the Bureau of the Census. All exports data, and imports data through 1980, are on a free alongside ship (f.a.s.) basis.

"Balance" is exports minus imports; a positive balance indicates a surplus trade value and a negative balance indicates a deficit trade value. "Energy" includes mineral fuels, lubricants, and related material. "Non-Energy Balance" and "Total Merchandise" include foreign exports (i.e., re-exports) and nonmonetary gold and U.S. Department of Defense Grant-Aid shipments. The "Non-Energy Balance" is calculated by subtracting the "Energy" from the "Total Merchandise Balance."

"Imports" consist of government and nongovernment shipments of merchandise into the 50 states, the District of Columbia, Puerto Rico, the U.S. Virgin Islands, and the U.S. Foreign Trade Zones. They reflect the total arrival from foreign countries of merchandise that immediately entered consumption channels, warehouses, the Foreign Trade Zones, or the Strategic Petroleum Reserve. They exclude shipments between the United States, Puerto Rico, and U.S. possessions, shipments to U.S. Armed Forces and diplomatic missions abroad for their own use, U.S. goods returned to the United States by its Armed Forces, and in-transit shipments.

Note 2. Light-Duty Vehicle Average Annual Miles Traveled by Technology Type. The average annual light-duty vehicle miles traveled (VMT) by technology type is a stock-weighted estimate using the average VMT by vintage and the number of vehicles (stock) by vintage to determine the overall average VMT by technology type. The top-level model is defined as:

$$avg \ VMT_{tech} = \frac{\sum_{vint=1}^{25} VMT_{vint,tech} * stock_{vint,tech}}{\sum_{vint=1}^{25} stock_{vint,tech}}$$

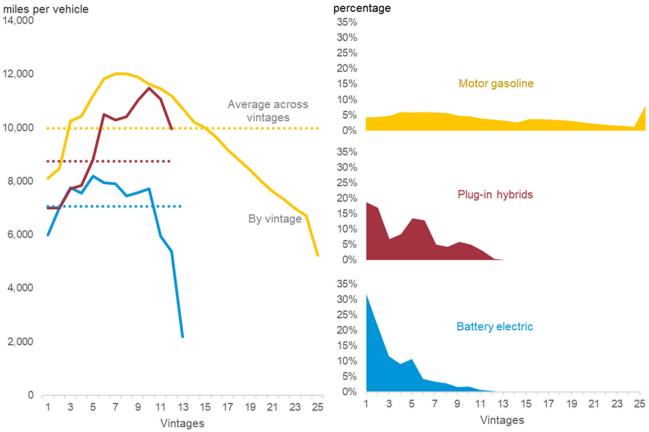
where $avg\ VMT_{tech}$ is the average annual VMT by technology type; $VMT_{vint,tech}$ is the average annual VMT by vintage and technology type; $stock_{vint,tech}$ is the total number of on-road light-duty vehicles by vintage and technology type; vint is the vintage of the vehicle, ranging from 1 to 25 years; and tech is the vehicle technology type—motor gasoline vehicles, diesel vehicles, hybrid electric vehicles, battery electric vehicles (BEV), or plug-in hybrid electric vehicles (PHEV). The vintage of the vehicle relates the model year of the vehicle with the year being analyzed. For example, a model year 2024 vehicle in 2024 would have a vintage equal to one and a model year 2020 vehicle in 2024 would have a vintage equal to five. The maximum vintage EIA uses is 25, resulting in all vehicles 25 years or older be grouped in vintage 25, so a model year 1990 vehicle in 2024 would have a vintage equal to 25.

In general, newer vehicles are driven more than older vehicles. However, the average annual VMT for vintage one vehicles is typically the lowest newer vintage VMT because many of these vehicles are not owned for an entire year resulting in a lower average annual VMT for the first model year. The average annual VMT increases for the first few vintages until it reaches the highest VMT by vintage, which occurs around seven years old. After the highest VMT by vintage is reached, the average annual VMT decreases as the vintage increases.

While the general pattern for travel by vintage is relatively consistent across technology types, the distribution of the stock by vintage is not consistent across technology types. For example, in 2022, nearly half of the motor gasoline vehicles were over 10 years old while only 3% of PHEVs and 1% of BEVs were over 10 years old. This implies that the average annual VMT for motor gasoline vehicles is more impacted by older vehicles than the average annual VMT for BEVs and PHEVs. If the average annual VMT were calculated for 2022 using the first 10 vintages instead of all 25 vintages, the average annual VMT would increase by almost 11% for motor gasoline vehicles and change by less than 1% for BEVs and PHEVs. When all vintages are included in the average annual VMT, the difference between motor gasoline vehicles and BEV VMT is almost 3,000 miles per year in 2022. However, when only the first 10 years are included in the average annual VMT calculation the difference increases to almost 4,000 miles per year. Similarly, the average annual VMT difference between motor gasoline vehicles and PHEVs increases in 2022 from over 1,000 miles per year when all 25 vintages are included to over 2,000 miles per year when only the first 10 vintages are included.

Comparing the average annual VMT calculated using the first 10 vintages shows that BEVs and PHEVs have further to go to reach annual average VMT parity with motor gasoline vehicles than what is implied using all 25 vintages. When year-over-year growth in BEV and PHEV registrations slows down, their stock by vintage distribution will more closely resemble that of the motor gasoline stock by vintage distribution, the more consistent comparison can be made using all 25 vintages. However, if high growth in new vehicle registrations continues for BEVs and PHEVs resulting in the vast majority of electric vehicles (EVs) being less than or equal to 10 years old, then a more consistent comparison can be made using a subset of vintages.

Figure 1.9 Annual average vehicle miles traveled and vehicle stock distribution by vintage for select technology types, 2022



Source: U.S. Energy Information Administration, AEO2023 National Energy Modeling System, run REF2023.020623A.

Note 3. Non-Combustion Use of Fossil Fuels. Most fossil fuels consumed in the United States and elsewhere are combusted to produce heat and power. However, some are used directly for non-combustion use as construction materials, chemical feedstocks, lubricants, solvents, and waxes. For example, coal tars from coal coke manufacturing are used as feedstock in the chemical industry, for metallurgical work, and in anti-dandruff shampoos; natural gas is used to make nitrogenous fertilizers and as chemical feedstocks; asphalt and road oil are used for roofing and paving; hydrocarbon gas liquids are used to create intermediate products that are used in making plastics; lubricants, including motor oil and greases, are used in vehicles and various industrial processes; petrochemical feedstocks are used to make plastics, synthetic fabrics, and related products.

Coal

The U.S. Energy Information Administration (EIA) assumes all non-combustion use of coal comes from the process of manufacturing coal coke in the industrial sector. Among the byproducts of the process are "coal tars" or "coal liquids," which typically are rich in aromatic hydrocarbons, such as benzene, and are used as chemical feedstock. EIA estimates non-combustion use ratios of coal tar for 1973 forward. Prior to 1998, estimate ratios are based on coal tar production data from the United States International Trade Commission's *Synthetic Organic Chemicals*. For 1998 forward, coal tar production is estimated using chemicals industry coal, coke, and breeze nonfuel use data from EIA, Form EIA-846, "Manufacturing Energy Consumption Survey" (MECS). For Table 1.12b, coal tar values in Table 1.12a are multiplied by

32.0067 million Btu/short ton, which is the product of 4.95 barrels/short ton (the density of coal tar) and 6.466 million Btu/barrel (the approximate heat content of coal tar).

Natural Gas

EIA assumes that all non-combustion use of natural gas takes place in the industrial sector. EIA estimates non-combustion ratios of natural gas using total natural gas nonfuel use data from MECS, and natural gas used as feedstock for hydrogen production data from EIA, Form EIA-820, "Annual Refinery Report." For Table 1.12b, natural gas values in Table 1.12a are multiplied by the heat content factors for natural gas end-use sectors consumption shown in Table A4.

Asphalt and Road Oil

EIA assumes all asphalt and road oil consumption is for non-combustion use. For Table 1.12b, asphalt and road oil values in Table 1.12a are multiplied by 6.636 million Btu/ barrel (the approximate heat content of asphalt and road oil) and the number of days in the period.

Distillate Fuel Oil

EIA assumes that all non-combustion use of distillate fuel oil occurs in the industrial sector. EIA estimates non-combustion ratios of distillate fuel oil using total distillate fuel oil nonfuel use data from MECS. Ratios prior to 1985 are assumed to be equal to the 1985 ratio. For Table 1.12b, distillate fuel oil values in Table 1.12a are multiplied by the heat content factors for distillate fuel oil consumption shown in Table A3 and the number of days in the period. Distillate fuel oil is included in "other" petroleum products.

Hydrocarbon Gas Liquids (HGL)

EIA estimates non-combustion ratios of hydrocarbon gas liquids (HGL), which include ethane, propane, normal butane, isobutane, natural gasoline (pentanes plus), and refinery olefins (ethylene, propylene, butylene, and isobutylene). EIA assumes that 100% of ethane, ethylene, and propylene consumption is for non-combustion use; 85% of normal butane, butylene, isobutane, and isobutylene consumption is for non-combustion use; and 50% of natural gasoline consumption is for non-combustion use. Non-combustion use of propane in the industrial sector is estimated using data from the American Petroleum Institute (API), the Propane Education & Research Council (PERC), and EIA's *Petroleum Supply Annual* (PSA). For 1984 through 2009, propane non-combustion ratios are estimated using API propane and propylene chemical industry sales data. Propane non-combustion ratios prior to 1984 are assumed to be equal to the 1984 ratio. For 2010 through 2016, propane non-combustion ratios are estimated by subtracting API data for total odorized propane sales from PSA data for total propane product supplied. Beginning in 2017, propane non-combustion ratios are estimated by subtracting PERC data for total odorized propane sales from PSA data for total propane product supplied. For Table 1.12b, HGL component values are multiplied by the appropriate heat content factors in Table A1 and the number of days in the period.

Lubricants

EIA assumes all lubricants consumption is for non-combustion use. For Table 1.12b, lubricants values in Table 1.12a are multiplied by 6.065 million Btu/barrel (the approximate heat content of lubricants) and the number of days in the period.

Petrochemical Feedstocks, Naphtha

EIA assumes all naphtha for petrochemical feedstocks is for non-combustion use. For Table 1.12b, naphtha petrochemical feedstock values in 1.12a are multiplied by 5.248 million Btu/barrel (the approximate heat content of naphtha for petrochemical feedstocks) and the number of days in the period.

Petrochemical Feedstocks, Other Oils

EIA assumes all other oils for petrochemical feedstocks are for non-combustion use. For Table 1.12b, other oils petrochemical feedstock values in 1.12a are multiplied by 5.825 million Btu/barrel (the approximate heat content of other oils for petrochemical feedstocks) and the number of days in the period.

Petrochemical Feedstocks, Still Gas

EIA assumes all still gas not burned as refinery fuel or for pipeline gas supplies is for non-combustion use. EIA estimates non-combustion ratios of still gas by subtracting data for all known fuel uses (refinery fuel use from the PSA, and

pipeline gas supplies from EIA's *Natural Gas Annual*) from the products supplied values in the PSA. The remainder is assumed to be dispatched to chemical plants as a feedstock for non-combustion use. For Table 1.12b, still gas for petrochemical feedstock values in 1.12a are multiplied by the still gas heat content factors (through 2015, the still gas heat content factor is 6.000 million Btu per fuel oil equivalent barrel; beginning in 2016, the still gas heat content factor is 6.287 million Btu per residual fuel oil equivalent barrel) and the number of days in the period.

Petroleum Coke

EIA assumes all non-combustion use of petroleum coke occurs in the industrial sector. Examples include petroleum coke used in the production of chemicals and metals. EIA estimates non-combustion ratios of petroleum coke by first subtracting data for petroleum coke consumed at refineries (from EIA, Form EIA-820, "Annual Refinery Report") from industrial sector petroleum coke consumption (from MER Table 3.7b), and then multiplying that amount by the nonfuel share of non-refinery petroleum coke consumption (from MECS). Non-combustion ratios prior to 1994 are assumed to be equal to the 1994 ratio. For Table 1.12b, petroleum coke values in 1.12a are multiplied by 5.719 million Btu/barrel (the approximate heat content of marketable petroleum coke) and the number of days in the period.

Residual Fuel Oil

EIA assumes that all non-combustion use of residual fuel oil occurs in the industrial sector. EIA estimates non-combustion ratios of residual fuel oil using total minus chemicals industry residual fuel oil nonfuel use data from MECS. Ratios prior to 1994 are assumed to be equal to the 1994 ratio. For Table 1.12b, residual fuel oil values in Table 1.12a are multiplied by 6.287 million Btu/barrel (the approximate heat content of residual fuel oil) and the number of days in the period. Residual fuel oil is included in "other" petroleum products.

Special Naphthas

EIA assumes all special naphthas consumption is for non- combustion use. For Table 1.12b, special naphthas values in Table 1.12a are multiplied by 5.248 million Btu/barrel (the approximate heat content of special naphthas) and the number of days in the period.

Waxes

EIA assumes all waxes consumption is for non-combustion use. For Table 1.12b, waxes values in Table 1.12a are multiplied by 5.537 million Btu/barrel (the approximate heat content of waxes) and the number of days in the period. Waxes are included in "other" petroleum products.

Miscellaneous Petroleum Products

Miscellaneous products include all finished petroleum products not classified elsewhere. EIA assumes all miscellaneous petroleum products consumption is for non-combustion use. For Table 1.12b, miscellaneous petroleum products values in Table 1.12a are multiplied by 5.796 million Btu/barrel (the approximate heat content of miscellaneous petroleum products) and the number of days in the period. Miscellaneous petroleum products are included in "other" petroleum products.

Table 1.2 Sources

Coal

1949–1988: Coal production data from Table 6.1 are converted to Btu by multiplying by the coal production heat content factors in Table A5.

1989 forward: Coal production data from Table 6.1 are converted to Btu by multiplying by the coal production heat content factors in Table A5. Waste coal supplied data from Table 6.1 are converted to Btu by multiplying by the waste coal supplied heat content factors in Table A5. Coal production (including waste coal supplied) is equal to coal production plus waste coal supplied.

Natural Gas (Dry)

1949 forward: Natural gas (dry) production data from Table 4.1 are converted to Btu by multiplying by the natural gas (dry) production heat content factors in Table A4.

Crude Oil

1949 forward: Crude oil (including lease condensate) production data from Table 3.1 are converted to Btu by multiplying by the crude oil (including lease condensate) production heat content factors in Table A2.

NGPL

1949 forward: Natural gas plant liquids (NGPL) production data from Table 3.1 are converted to Btu by multiplying by the NGPL production heat content factors in Table A2.

Fossil Fuels Total

1949 forward: Total fossil fuels production is the sum of the production values for coal, natural gas (dry), crude oil, and NGPL.

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 10.1.

Total Primary Energy Production

1949 forward: Total primary energy production is the sum of the production values for fossil fuels, nuclear electric power, and renewable energy.

Table 1.3 Sources

Coal

1949 forward: Coal consumption data from Table 6.1 are converted to Btu by multiplying by the total coal consumption heat content factors in Table A5.

Natural Gas

1949–1979: Natural gas (including supplemental gaseous fuels) consumption data from Table 4.1 are converted to Btu by multiplying by the total natural gas consumption heat content factors in Table A4.

1980 forward: Natural gas (including supplemental gaseous fuels) consumption data from Table 4.1 are converted to Btu by multiplying by the total natural gas consumption heat content factors in Table A4. Supplemental gaseous fuels data in Btu are estimated using the method described in Note 3, "Supplemental Gaseous Fuels," at the end of Section 4. Natural gas (excluding supplemental gaseous fuels) consumption is equal to natural gas (including supplemental gaseous fuels) consumption minus supplemental gaseous fuels.

Petroleum

1949–1992: Petroleum (excluding biofuels) consumption is equal to total petroleum products supplied from Table 3.6.

1993–2008: Petroleum (excluding biofuels) consumption is equal to total petroleum products supplied from Table 3.6 minus fuel ethanol consumption from Table 10.3.

2009–2011: Petroleum (excluding biofuels) consumption is equal to: total petroleum products supplied from Table 3.6; minus fuel ethanol (minus denaturant) consumption from Table 10.3; 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: Petroleum (excluding biofuels) consumption is equal to: total petroleum products supplied from Table 3.6; minus fuel ethanol (minus denaturant) consumption from Table 10.3; minus biodiesel consumption from Table 10.4a; 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: Petroleum (excluding biofuels) consumption is equal to: total petroleum products supplied from Table 3.6; minus fuel ethanol (minus denaturant) consumption from Table 10.3; 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).

Coal Coke Net Imports 1949 forward: Table 1.4c.

Fossil Fuels Total

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

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 10.1.

Electricity Net Imports 1949 forward: Table 1.4c.

Total Primary Energy Consumption

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

Table 1.4a Sources

Coal

1949 forward: Coal imports data from Table 6.1 are converted to Btu by multiplying by the coal imports heat content factors in Table A5.

Coal Coke

1949 forward: Coal coke imports data from U.S. Department of Commerce, Bureau of the Census, Monthly Report IM 145, are converted to Btu by multiplying by the coal coke imports heat content factor in Table A5.

Natural Gas

1949 forward: Natural gas imports data from Table 4.1 are converted to Btu by multiplying by the natural gas imports heat content factors in Table A4.

Crude Oil

1949 forward: Crude oil imports data from Table 3.3b are converted to Btu by multiplying by the crude oil imports heat content factors in Table A2.

Petroleum Products

1949–1992: Petroleum products (excluding biofuels) imports are equal to total petroleum imports from Table 3.3b minus crude oil imports from Table 3.3b; petroleum products (excluding biofuels) imports data are converted to Btu by multiplying by the total petroleum products imports heat content factors in Table A2.

1993–2008: Petroleum products (excluding biofuels) imports are equal to petroleum products (including biofuels) imports (see 1949–1992 sources above) minus fuel ethanol (minus denaturant) imports (see "Biomass—Fuel Ethanol (Minus Denaturant)" sources below).

2009–2011: Biomass-based diesel fuel imports data are from U.S. Energy Information Administration, Petroleum Supply Annual (PSA), Tables 1 and 25, and Petroleum Supply Monthly (PSM), Tables 1 and 37 (the data are converted to Btu by multiplying by the biodiesel heat content factor in Table A1). Petroleum products (excluding biofuels) imports are equal to petroleum products (including biofuels) imports (see 1949–1992 sources above) minus fuel ethanol (minus denaturant) imports (see "Biomass—Fuel Ethanol (Minus Denaturant)" sources below) minus biomass-based diesel fuel imports.

2012–2020: Petroleum products (excluding biofuels) imports are equal to petroleum products (including biofuels) imports (see 1949–1992 sources above) minus fuel ethanol (minus denaturant) imports (see "Biomass—Fuel Ethanol (Minus Denaturant)" sources below) minus biodiesel imports (see "Biomass—Biodiesel") minus renewable diesel fuel imports (see "Biomass—Renewable Diesel Fuel").

2021 forward: Petroleum products (excluding biofuels) imports are equal to petroleum products (including biofuels) imports (see 1949–1992 sources above) minus fuel ethanol (minus denaturant) imports (see "Biomass—Fuel Ethanol (Minus Denaturant)" sources below) minus biodiesel imports (see "Biomass—Biodiesel") minus renewable diesel fuel imports (see "Biomass—Renewable Diesel Fuel") minus other biofuels imports (see "Biomass—Other Biofuels").

Total Petroleum

1949 forward: Total petroleum imports are equal to crude oil imports plus petroleum products imports.

Biomass—Fuel Ethanol (Minus Denaturant)

1993 forward: Fuel ethanol (including denaturant) imports data are from PSA/PSM Table 1. Fuel ethanol (minus denaturant) production is equal to fuel ethanol (including denaturant) production from Table 10.3 minus denaturant from Table 10.3. Fuel ethanol (minus denaturant) imports are equal to fuel ethanol (including denaturant) imports multiplied by the ratio of fuel ethanol (minus denaturant) production to fuel ethanol (including denaturant) production. Fuel ethanol (minus denaturant) imports data are converted to Btu by multiplying by 3.539 million Btu per barrel, the undenatured ethanol heat content factor in Table A3.

Biomass—Biodiesel

2001 forward: Biodiesel imports data are from Table 10.4a, and are converted to Btu by multiplying by the biodiesel heat content factor in Table A1.

Biomass—Renewable Diesel Fuel

2012 forward: Renewable diesel fuel imports data are from Table 10.4b, and are converted to Btu by multiplying by the renewable diesel fuel heat content factor in Table A1.

Biomass—Other Biofuels

2021 forward: Other biofuels imports data are from Table 10.4c, and are converted to Btu by multiplying by the other biofuels heat content factor in Table A1.

Total Biomass

1993–2000: Total biomass imports are equal to fuel ethanol (minus denaturant) imports.

2001–2011: Total biomass imports are equal to fuel ethanol (minus denaturant) imports plus biodiesel imports.

2012–2020: Total biomass imports are the sum of imports values for fuel ethanol (minus denaturant), biodiesel, and renewable diesel fuel.

2021 forward: Total biomass imports are the sum of imports values for fuel ethanol (minus denaturant), biodiesel, renewable diesel fuel, and other biofuels.

Electricity

1949 forward: Electricity imports data from Table 7.1 are converted to Btu by multiplying by the electricity heat content factor in Table A6.

Total Primary Energy Imports

1949 forward: Total primary energy imports are the sum of the imports values for coal, coal coke, natural gas, total petroleum, total biomass, and electricity.

Table 1.4b Sources

Coal

1949 forward: Coal exports data from Table 6.1 are converted to Btu by multiplying by the coal exports heat content factors in Table A5.

Coal Coke

1949 forward: Coal coke exports data from U.S. Department of Commerce, Bureau of the Census, Monthly Report EM 545, are converted to Btu by multiplying by the coal coke exports heat content factor in Table A5.

Natural Gas

1949 forward: Natural gas exports data from Table 4.1 are converted to Btu by multiplying by the natural gas exports heat content factors in Table A4.

Crude Oil

1949 forward: Crude oil exports data from Table 3.3b are converted to Btu by multiplying by the crude oil exports heat content factor in Table A2.

Petroleum Products

1949–2009: Petroleum products (excluding biofuels) exports are equal to total petroleum exports from Table 3.3b minus crude oil exports from Table 3.3b; petroleum products (excluding biofuels) exports data are converted to Btu by multiplying by the total petroleum products exports heat content factors in Table A2.

2010: Petroleum products (including biofuels) exports are equal to total petroleum exports from Table 3.3b minus crude oil exports from Table 3.3b; petroleum products (including biofuels) exports data are converted to Btu by multiplying by the total petroleum products exports heat content factors in Table A2. Petroleum products (excluding biofuels) exports are equal to petroleum products (including biofuels) exports minus fuel ethanol (minus denaturant) exports (see "Biomass—Fuel Ethanol (Minus Denaturant)" sources below).

2011–2018: Biomass-based diesel fuel exports data are from U.S. Energy Information Administration (EIA), Petroleum Supply Annual (PSA), Table 31, and are converted to Btu by multiplying by the biodiesel heat content factor in Table A1. Petroleum products (excluding biofuels) exports are equal to petroleum products (including biofuels) exports (see 2010 sources above) minus fuel ethanol (minus denaturant) exports (see "Biomass—Fuel Ethanol (Minus Denaturant)" sources below) minus biomass-based diesel fuel exports.

2019 forward: Biodiesel exports data are from EIA, PSA, Table 31, and *Petroleum Supply Monthly* (PSM), Table 49, and are converted to Btu by multiplying by the biodiesel heat content factor in Table A1. Petroleum products (excluding biofuels) exports are equal to petroleum products (including biofuels) exports (see 2010 sources above) minus fuel ethanol (minus denaturant) exports (see "Biomass—Fuel Ethanol (Minus Denaturant)" sources below) minus biodiesel exports.

Total Petroleum

1949 forward: Total petroleum exports are equal to crude oil exports plus petroleum products exports.

Biomass—Fuel Ethanol (Minus Denaturant)

2010 forward: Fuel ethanol (including denaturant) exports data are from PSA/PSM Table 1. Fuel ethanol (minus denaturant) production is equal to fuel ethanol (including denaturant) production from Table 10.3 minus denaturant from Table 10.3. Fuel ethanol (minus denaturant) exports are equal to fuel ethanol (including denaturant) exports multiplied by the ratio of fuel ethanol (minus denaturant) production to fuel ethanol (including denaturant) production. Fuel ethanol (minus denaturant) exports are converted to Btu by multiplying by 3.539 million Btu per barrel, the undenatured ethanol heat content factor in Table A3.

Biomass—Biodiesel

2001 forward: Biodiesel exports data are from Table 10.4a, and are converted to Btu by multiplying by the biodiesel heat content factor in Table A1.

Biomass—Densified Biomass

2016 forward: Densified biomass exports data are from EIA, Form EIA-63C, "Densified Biomass Fuel Report."

Total Biomass

2001–2009: Total biomass exports are equal to biodiesel exports.

2010–2015: Total biomass exports are equal to fuel ethanol (minus denaturant) exports plus biodiesel exports.

2016 forward: Total biomass exports are the sum of the exports values for fuel ethanol (minus denaturant), biodiesel, and densified biomass.

Electricity

1949 forward: Electricity exports data from Table 7.1 are converted to Btu by multiplying by the electricity heat content factor in Table A6.

Total Primary Energy Exports

1949 forward: Total primary energy exports are the sum of the exports values for coal, coal coke, natural gas, total petroleum, total biomass, and electricity.

Table 1.5 Sources

U.S. Department of Commerce, U.S. Census Bureau, Foreign Trade Division:

Petroleum Exports

1974–1987: "U.S. Exports," FT-410, December issues.

1988 and 1989: "Report on U.S. Merchandise Trade," final revisions.

1990–1992: "U.S. Merchandise Trade," final report.

1993–2019: "U.S. International Trade in Goods and Services," annual revisions.

2020–2022: "U.S. International Trade in Goods and Services," 2022 annual revisions.

2023: "U.S. International Trade in Goods and Services," FT-900, monthly.

Petroleum Imports

1974–1987: "U.S. Merchandise Trade," FT-900, December issues, 1975–1988.

1988 and 1989: "Report on U.S. Merchandise Trade," final revisions.

1990–1993: "U.S. Merchandise Trade," final report.

1994–2019: "U.S. International Trade in Goods and Services," annual revisions.

2020–2022: "U.S. International Trade in Goods and Services," 2022 annual revisions.

2023: "U.S. International Trade in Goods and Services," FT-900, monthly.

Energy Exports and Imports

1974–1987: U.S. merchandise trade press releases and database printouts for adjustments.

1988: January-July, monthly FT-900 supplement, 1989 issues. August-December, monthly FT-900, 1989 issues.

1989: Monthly FT-900, 1990 issues.

1990-1992: "U.S. Merchandise Trade," final report.

1993–2019: "U.S. International Trade in Goods and Services," annual revisions.

2020–2022: "U.S. International Trade in Goods and Services." 2022 annual revisions.

2023: "U.S. International Trade in Goods and Services," FT-900, monthly.

Petroleum Balance

1974 forward: The petroleum balance is calculated by the U.S. Energy Information Administration (EIA) as petroleum imports minus petroleum exports.

Energy Balance

1974 forward: The energy balance is calculated by EIA as energy imports minus energy exports.

Non-Energy Balance

1974 forward: The non-energy balance is calculated by EIA as the total merchandise balance minus the energy balance.

Total Merchandise

1974–1987: U.S. merchandise trade press releases and database printouts for adjustments.

1988: "Report on U.S. Merchandise Trade, 1988 final revisions," August 18, 1989.

1989: "Report on U.S. Merchandise Trade, 1989 revisions," July 10, 1990.

1990: "U.S. Merchandise Trade, 1990 final report," May 10, 1991, and "U.S. Merchandise Trade, December 1992,"

February 18, 1993, page 3.

1991: "U.S. Merchandise Trade, 1992 final report," May 12, 1993.

1992–2019: "U.S. International Trade in Goods and Services," annual revisions.

2020–2022: "U.S. International Trade in Goods and Services," 2022 annual revisions.

2023: "U.S. International Trade in Goods and Services," FT-900, monthly.

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