

WASHINGTON
Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Washington
(trillion Btu)

Year	Fossil fuels										Fossil fuels (as commingled)			
	Coal	Natural gas excluding supplemental gaseous fuels ^a	Petroleum							Total	Total	Natural gas including supplemental gaseous fuels ^a	Distillate fuel oil including biofuels ^a	Motor gasoline including fuel ethanol ^a
			Distillate fuel oil excluding biofuels ^a	HGL ^b	Jet fuel ^c	Motor gasoline excluding fuel ethanol ^a	Residual fuel oil	Other ^d	Total					
1960	15.2	67.2	105.6	2.1	24.4	121.2	58.5	45.1	356.8	439.2	67.2	105.6	121.2	
1965	12.1	116.2	99.7	4.7	38.2	141.3	57.5	64.4	405.8	534.1	116.2	99.7	141.3	
1970	5.9	158.2	106.0	6.3	59.3	189.5	65.3	80.3	506.7	670.8	158.2	106.0	189.5	
1971	6.4	165.3	108.6	6.3	65.4	193.2	59.6	87.2	520.4	692.1	165.3	108.6	193.2	
1972	36.6	179.8	112.9	5.2	59.6	199.8	74.3	104.1	555.9	772.3	179.8	112.9	199.8	
1973	65.0	208.0	117.9	4.4	65.8	209.4	71.1	104.2	572.8	845.7	208.0	117.9	209.4	
1974	54.2	191.3	98.2	4.3	68.9	208.8	64.0	94.9	539.1	784.6	191.3	98.2	208.8	
1975	76.2	171.2	98.8	2.9	78.8	215.4	53.2	99.8	548.9	796.4	171.2	98.8	215.4	
1976	81.2	154.9	108.8	3.0	72.9	227.5	46.6	99.6	558.4	794.5	154.9	108.8	227.5	
1977	102.4	149.1	118.1	3.5	67.7	238.5	60.5	112.1	600.5	852.0	149.1	118.1	238.5	
1978	84.7	133.3	123.7	4.8	64.3	249.2	72.0	107.6	621.7	839.7	133.3	123.7	249.2	
1979	99.0	165.9	126.5	5.6	71.4	238.5	80.8	98.2	621.0	886.0	165.9	126.5	238.5	
1980	91.0	135.5	107.6	5.5	67.5	224.1	108.6	81.5	594.8	821.2	135.5	107.6	224.1	
1981	90.9	131.2	102.6	5.8	67.8	226.0	102.8	95.8	600.9	822.9	131.2	102.6	226.0	
1982	74.1	114.4	105.8	6.3	71.9	226.9	85.0	86.2	582.0	770.5	114.4	105.8	226.9	
1983	80.2	111.8	95.0	6.3	72.1	234.9	31.0	84.7	524.0	716.0	111.8	95.0	234.9	
1984	82.3	132.0	105.5	7.7	87.9	242.4	62.7	92.8	599.0	813.2	132.0	105.5	242.4	
1985	93.7	140.0	116.5	8.8	86.6	231.2	71.7	92.5	607.4	841.1	140.0	116.5	231.2	
1986	63.3	121.8	135.7	9.1	96.1	246.6	97.8	90.7	675.9	861.0	121.8	135.7	246.6	
1987	95.7	136.1	112.9	12.1	104.7	269.2	86.6	115.9	701.4	933.2	136.1	112.9	269.2	
1988	99.1	150.5	118.4	10.2	116.3	266.3	102.7	121.4	735.4	985.0	150.5	118.4	266.3	
1989	96.7	167.8	121.1	12.3	116.0	282.7	98.6	130.7	761.5	1,025.9	167.8	121.1	282.7	
1990	85.6	167.4	117.4	8.3	126.0	280.8	102.3	128.3	763.2	1,016.2	167.4	117.4	280.8	
1991	89.1	179.2	115.4	9.4	120.2	284.9	108.7	122.8	761.6	1,029.9	179.2	115.4	284.9	
1992	106.1	180.6	113.8	9.3	136.0	289.9	145.7	153.0	847.7	1,134.4	180.6	113.8	289.9	
1993	97.8	229.6	110.4	9.4	125.6	292.6	98.8	122.1	759.0	1,086.4	229.6	110.4	292.6	
1994	106.9	263.2	132.9	9.5	121.7	291.7	97.6	141.3	794.8	1,164.8	263.2	132.9	291.7	
1995	69.8	264.5	124.0	10.7	130.4	303.6	108.8	137.6	815.2	1,149.4	264.5	124.0	303.6	
1996	90.9	283.9	130.9	11.6	126.5	319.9	80.3	151.1	820.4	1,195.2	283.9	130.9	319.9	
1997	80.5	268.1	142.8	18.8	127.4	316.5	81.3	135.9	822.6	1,171.2	268.1	142.8	316.5	
1998	103.5	303.3	127.2	17.3	124.1	318.8	60.6	174.5	822.4	1,229.2	303.3	127.2	318.8	
1999	96.9	302.3	141.0	16.3	125.6	326.5	50.2	188.7	848.4	1,247.5	302.3	141.0	326.5	
2000	106.2	297.6	146.2	23.1	140.2	325.2	47.5	152.9	835.0	1,238.8	297.6	146.2	325.2	
2001	99.4	322.4	140.4	25.4	123.7	328.2	40.3	110.4	768.4	1,190.2	322.4	140.4	328.2	
2002	100.8	240.5	144.5	18.1	102.5	329.7	34.2	107.3	736.3	1,077.6	240.5	144.5	329.7	
2003	118.2	255.8	141.2	10.3	99.2	328.6	38.2	105.7	723.2	1,097.2	255.8	141.2	328.6	
2004	112.5	269.6	139.6	10.3	109.0	332.2	41.1	117.3	749.5	1,131.6	269.6	139.6	332.2	
2005	112.3	272.2	144.0	10.6	104.8	331.2	48.9	129.1	768.7	1,153.1	272.2	144.0	331.2	
2006	69.2	271.0	173.6	10.5	105.4	332.6	39.0	134.4	795.6	1,135.7	271.0	173.6	332.6	
2007	95.7	279.4	176.2	10.1	116.0	328.6	62.8	126.7	820.4	1,195.6	279.4	176.2	328.6	
2008	94.6	307.1	173.4	17.4	114.0	308.3	28.3	125.3	766.8	1,168.5	307.1	173.4	308.3	
2009	84.0	319.7	141.2	16.2	103.7	307.9	45.6	118.0	732.6	1,136.4	319.7	141.2	307.9	
2010	94.9	294.9	141.4	16.2	74.8	305.6	42.2	111.8	691.9	1,081.7	294.9	141.4	305.6	
2011	57.0	272.3	147.3	17.3	75.2	302.0	50.5	102.7	694.9	1,024.2	272.3	147.3	302.0	
2012	42.7	271.9	134.1	16.3	73.4	300.0	63.3	110.7	697.8	1,012.4	271.9	134.1	300.0	
2013	75.0	327.8	128.0	16.3	79.6	312.0	61.2	101.4	698.4	1,101.2	327.8	128.0	312.0	
2014	76.5	320.2	135.0	16.2	82.4	308.9	40.8	98.5	681.9	1,078.6	320.2	135.0	308.9	
2015	58.3	327.7	145.7	14.5	92.2	315.0	55.0	110.3	732.7	1,118.7	327.7	145.7	315.0	
2016	53.3	324.9	150.2	16.5	99.2	314.9	112.5	R 107.2	R 800.5	R 1,178.7	324.9	150.2	314.9	
2017	61.7	350.9	144.5	16.5	104.7	314.0	86.0	R 104.2	R 769.9	R 1,182.5	350.9	144.5	314.0	
2018	61.2	334.8	159.4	17.8	105.1	325.8	64.8	R 103.1	R 775.9	R 1,171.9	334.8	159.4	325.8	
2019	80.8	378.2	158.4	18.4	111.1	327.9	76.6	R 102.4	R 794.8	R 1,253.9	378.2	158.4	327.9	
2020	59.4	R 356.9	148.1	17.2	70.1	258.2	37.2	R 91.0	R 621.8	R 1,038.2	R 356.9	148.1	258.2	
2021	36.9	R 384.8	R 150.4	19.0	90.8	282.7	77.5	R 91.7	R 710.4	R 1,132.1	R 384.8	R 150.4	282.7	
2022	42.2	381.9	151.7	19.0	101.6	284.0	79.4	89.7	723.7	1,147.8	381.9	151.7	284.0	

^a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

^b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

^d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: - Totals may not equal sum of components due to independent rounding. - The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

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

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

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Washington (continued)
(trillion Btu)

Year	Nuclear electric power	Renewable energy											Net interstate flow of electricity ^k	Electricity net imports ^l	Total ^f
		Hydro-electric power ^{e,f}	Biomass						Geo-thermal ^f	Solar ^{fj}	Wind	Total ^f			
			Wood and waste ^{fg}	Fuel ethanol ^h	Biodiesel	Renewable diesel	Losses and co-products ⁱ	Total ^f							
1960	0.0	R 117.2	58.5	NA	NA	NA	NA	58.5	0.0	NA	NA	R 175.7	R 150.6	-0.2	R 765.4
1965	0.0	R 168.2	66.2	NA	NA	NA	NA	66.2	0.0	NA	NA	R 234.4	R 179.3	-1.6	R 946.2
1970	28.7	R 237.2	66.5	NA	NA	NA	NA	66.5	0.0	NA	NA	R 303.7	R 227.6	2.1	R 1,233.0
1971	27.7	R 244.3	67.2	NA	NA	NA	NA	67.2	0.0	NA	NA	R 311.4	R 225.8	1.0	R 1,258.0
1972	31.5	R 258.9	67.0	NA	NA	NA	NA	67.0	0.0	NA	NA	R 325.9	R 260.3	3.4	R 1,393.4
1973	48.3	R 235.5	66.2	NA	NA	NA	NA	66.2	0.0	NA	NA	R 301.7	R 222.1	16.4	R 1,434.4
1974	43.4	R 281.5	65.2	NA	NA	NA	NA	65.2	0.0	NA	NA	R 346.6	R 235.9	8.2	R 1,418.7
1975	36.4	R 285.6	64.3	NA	NA	NA	NA	64.3	0.0	NA	NA	R 349.9	R 198.9	5.9	R 1,387.5
1976	26.6	R 322.3	71.4	NA	NA	NA	NA	71.4	0.0	NA	NA	R 393.7	R 223.1	2.1	R 1,439.8
1977	46.5	R 227.3	78.3	NA	NA	NA	NA	78.3	0.0	NA	NA	R 305.6	R 254.9	17.0	R 1,476.0
1978	45.3	R 303.3	81.0	NA	NA	NA	NA	81.0	0.0	NA	NA	R 384.4	R 273.4	8.4	R 1,551.3
1979	39.3	R 271.3	77.5	NA	NA	NA	NA	77.5	0.0	NA	NA	R 348.7	R 327.5	(s)	R 1,601.5
1980	22.3	R 283.6	88.3	NA	NA	NA	NA	88.3	0.0	NA	NA	R 371.8	R 352.3	2.9	R 1,570.6
1981	22.5	R 319.7	94.9	0.1	NA	NA	(s)	95.1	0.0	NA	NA	R 414.8	R 400.6	29.6	R 1,690.4
1982	40.2	R 299.3	91.1	0.1	NA	NA	0.1	91.3	0.0	NA	NA	R 390.6	R 371.6	13.8	R 1,586.6
1983	38.1	R 291.9	104.4	0.1	NA	NA	0.3	104.8	0.0	NA	0.0	R 396.7	R 379.6	8.1	R 1,538.5
1984	57.6	R 284.7	110.3	0.1	NA	NA	0.3	110.7	0.0	0.0	0.0	R 395.4	R 356.5	21.9	R 1,644.6
1985	85.4	R 262.9	112.0	(s)	NA	NA	0.3	112.4	0.0	0.0	0.0	R 375.3	R 351.7	3.1	R 1,656.5
1986	89.3	R 269.4	117.7	0.2	NA	NA	0.3	118.3	0.0	0.0	0.0	R 387.7	R 360.1	-7.9	R 1,690.1
1987	57.7	R 238.3	122.5	0.5	NA	NA	0.4	123.3	0.0	0.0	0.0	R 361.5	R 395.9	3.9	R 1,752.2
1988	63.6	R 233.8	127.4	0.5	NA	NA	0.4	128.2	0.0	0.0	0.0	R 362.0	R 481.3	1.9	R 1,893.8
1989	64.7	R 244.1	108.2	0.6	NA	NA	0.3	109.2	0.1	0.4	0.0	R 353.7	R 303.9	-2.7	R 1,945.6
1990	60.8	R 298.4	93.4	0.7	NA	NA	0.3	94.4	0.1	0.4	0.0	R 393.3	R -1.5	0.8	R 1,469.5
1991	44.3	R 304.8	73.9	0.8	NA	NA	0.3	75.1	0.1	0.4	0.0	R 380.4	R -7.7	8.9	R 1,455.8
1992	59.6	R 233.1	95.4	3.9	NA	NA	0.3	99.6	0.1	0.4	0.0	R 333.2	R 81.2	21.3	R 1,629.6
1993	74.9	R 229.7	96.5	6.7	NA	NA	0.3	103.5	0.1	0.4	0.0	R 333.7	R 139.2	2.4	R 1,636.7
1994	70.4	R 223.7	96.3	7.8	NA	NA	0.3	104.4	0.2	0.4	0.0	R 328.7	R 66.0	9.5	R 1,639.5
1995	72.9	R 281.5	90.1	2.6	NA	NA	0.3	93.0	0.2	0.4	0.0	R 375.0	R -10.2	-2.6	R 1,584.6
1996	58.7	R 336.1	89.7	1.1	NA	NA	0.1	90.9	0.2	0.4	0.0	R 427.6	R -116.9	15.7	R 1,580.3
1997	65.5	R 355.4	94.2	2.2	NA	NA	0.1	96.5	0.2	0.4	0.0	R 452.5	R -113.6	12.4	R 1,588.0
1998	72.6	R 272.3	87.1	2.9	NA	NA	0.1	90.2	0.3	0.3	0.0	R 363.1	R 13.9	8.4	R 1,687.2
1999	63.6	R 330.9	89.1	2.5	NA	NA	0.1	91.6	0.3	0.3	0.0	R 423.2	R -37.9	6.2	R 1,702.6
2000	89.7	R 273.9	89.2	2.8	NA	NA	0.1	92.1	0.3	0.3	0.0	R 366.6	R 11.6	-3.9	R 1,702.9
2001	86.2	R 186.8	92.7	2.0	(s)	NA	0.1	94.8	0.3	0.3	0.0	R 282.2	R 106.6	-17.3	R 1,647.9
2002	94.5	R 266.7	87.6	5.9	0.1	NA	0.1	93.6	0.4	0.2	R 1.4	R 362.4	R -90.5	-4.1	R 1,439.9
2003	79.4	R 244.8	95.7	5.6	(s)	NA	0.1	101.4	0.5	0.2	R 2.1	R 349.0	R -63.3	-6.7	R 1,455.6
2004	93.7	R 244.2	92.6	1.9	0.1	NA	(s)	94.6	0.6	0.2	R 2.5	R 342.0	R -44.1	-16.5	R 1,506.7
2005	86.0	R 245.9	81.3	7.4	0.3	NA	(s)	88.9	0.6	0.1	R 1.7	R 337.3	R -34.3	-10.3	R 1,531.9
2006	97.3	R 279.8	103.7	8.1	0.8	NA	0.0	112.7	0.7	0.1	R 3.5	R 396.8	R -26.8	-29.5	R 1,573.5
2007	85.1	R 269.0	79.1	10.2	1.1	NA	(s)	90.4	0.7	0.1	R 8.3	R 368.5	R -56.4	-11.1	R 1,581.7
2008	96.9	R 264.9	77.3	17.9	1.0	NA	(s)	96.1	0.8	0.1	R 12.5	R 374.4	R -48.5	-24.8	R 1,566.5
2009	69.4	R 248.8	84.3	20.7	1.0	NA	(s)	106.1	0.9	0.1	R 12.2	R 368.1	R -3.5	-21.1	R 1,549.4
2010	96.6	R 233.0	107.6	17.8	0.8	NA	(s)	126.2	1.0	R 0.1	R 16.2	R 376.5	R 12.8	-23.7	R 1,543.9
2011	50.3	R 313.3	104.4	18.4	2.8	0.0	0.1	125.6	1.3	R 0.1	R 21.4	R 461.7	R -34.1	-23.1	R 1,479.0
2012	97.8	R 305.3	101.3	17.5	2.5	0.0	(s)	121.4	1.1	R 0.2	R 22.5	R 450.5	R -52.5	-21.1	R 1,487.2
2013	88.4	R 266.7	108.0	18.4	2.5	0.0	0.1	128.9	1.1	R 0.2	R 23.9	R 420.8	R -38.6	-21.6	R 1,550.3
2014	99.3	R 271.1	108.6	19.7	2.6	0.0	0.0	131.0	1.1	R 0.2	R 24.8	R 428.3	R -51.5	-25.7	R 1,529.0
2015	85.3	R 250.5	113.3	24.2	2.8	0.0	0.1	R 140.3	1.1	R 0.3	R 24.1	R 416.4	R -47.0	-11.3	R 1,562.1
2016	100.7	R 267.3	122.8	23.9	2.9	0.0	0.1	149.7	1.1	R 0.4	R 27.4	R 446.0	R -89.6	-2.7	R 1,633.1
2017	85.0	R 280.4	117.7	24.2	2.8	0.0	0.1	R 144.8	1.1	R 0.5	R 23.6	R 450.5	R -81.3	-3.6	R 1,633.0
2018	101.5	R 276.0	116.7	25.0	3.1	0.0	0.1	144.9	1.1	R 0.6	R 27.0	R 449.6	R -84.1	-13.7	R 1,625.1
2019	92.6	R 225.3	118.4	25.6	3.0	0.0	0.1	147.2	1.1	R 1.0	R 28.8	R 397.3	R -30.0	-13.2	R 1,700.6
2020	98.5	R 260.7	R 100.6	20.3	2.8	0.0	0.1	R 123.9	1.1	R 1.1	R 31.6	R 418.5	R -143.3	16.9	R 1,428.8
2021	R 88.8	R 243.5	R 101.9	22.4	R 2.8	0.0	0.1	R 127.3	1.1	R 1.4	R 31.7	R 405.0	R -103.9	13.4	R 1,535.3
2022	102.7	269.3	100.8	22.6	2.9	0.0	0.1	126.4	1.1	1.8	27.5	426.1	-117.7	12.5	1,571.4

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

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

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

^h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

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

^j Solar thermal and photovoltaic energy.

^k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

^l Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatt-hours by 3,412 Btu per kilowatt-hour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: - Totals may not equal sum of components due to independent rounding. - The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

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

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