

**Table 2. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Energy Consumption											
Residential											
Distillate Fuel	0.90	0.89	0.92	0.95	0.95	0.95	0.95	0.95	0.94	0.93	0.92
Kerosene	0.11	0.07	0.08	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Liquefied Petroleum Gas	0.50	0.53	0.50	0.51	0.52	0.53	0.54	0.55	0.55	0.56	0.56
Petroleum Subtotal	1.51	1.48	1.51	1.58	1.59	1.60	1.60	1.61	1.60	1.60	1.60
Natural Gas	4.92	5.06	5.21	5.32	5.35	5.44	5.50	5.57	5.62	5.69	5.74
Coal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Renewable Energy 1/ Electricity	0.36 4.10	0.39 4.33	0.41 4.37	0.41 4.44	0.40 4.50	0.40 4.57	0.40 4.64	0.41 4.73	0.40 4.79	0.40 4.87	0.40 4.95
Delivered Energy	10.91	11.28	11.52	11.76	11.86	12.02	12.16	12.33	12.43	12.58	12.70
Electricity Related Losses	9.28	9.60	9.69	9.78	9.89	10.03	10.18	10.34	10.36	10.48	10.58
Total	20.18	20.88	21.21	21.54	21.75	22.05	22.34	22.66	22.79	23.06	23.28
Commercial											
Distillate Fuel	0.49	0.49	0.57	0.56	0.58	0.59	0.60	0.61	0.62	0.62	0.63
Residual Fuel	0.09	0.08	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Kerosene	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Liquefied Petroleum Gas	0.09	0.09	0.09	0.09	0.10	0.09	0.10	0.10	0.10	0.10	0.10
Motor Gasoline 2/ Petroleum Subtotal	0.05 0.74	0.05 0.72	0.05 0.85	0.05 0.85	0.05 0.87	0.05 0.88	0.05 0.89	0.05 0.90	0.05 0.91	0.05 0.92	0.05 0.92
Natural Gas	3.33	3.21	3.26	3.20	3.26	3.34	3.40	3.45	3.51	3.57	3.62
Coal	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Renewable Energy 3/ Electricity	0.09 4.09	0.10 4.12	0.10 4.14	0.10 4.28	0.10 4.42	0.10 4.55	0.10 4.68	0.10 4.80	0.10 4.92	0.10 5.05	0.10 5.18
Delivered Energy	8.34	8.25	8.44	8.52	8.75	8.98	9.17	9.35	9.54	9.74	9.92
Electricity Related Losses	9.24	9.15	9.17	9.42	9.72	10.00	10.26	10.49	10.64	10.86	11.07
Total	17.58	17.40	17.61	17.94	18.47	18.98	19.43	19.85	20.18	20.60	20.99
Industrial 4/											
Distillate Fuel	1.21	1.16	1.17	1.14	1.15	1.16	1.16	1.17	1.16	1.17	1.19
Liquefied Petroleum Gas	2.10	2.22	2.12	2.16	2.21	2.24	2.29	2.32	2.33	2.35	2.39
Petrochemical Feedstocks	1.16	1.22	1.27	1.28	1.30	1.32	1.33	1.34	1.33	1.35	1.37
Residual Fuel	0.15	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Motor Gasoline 2/	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Other Petroleum 5/ Petroleum Subtotal	4.27 9.04	4.03 9.00	4.05 8.98	3.96 8.90	4.24 9.27	4.34 9.42	4.37 9.53	4.41 9.61	4.40 9.59	4.38 9.63	4.37 9.70
Natural Gas	7.56	7.43	7.41	7.76	7.94	8.05	8.18	8.27	8.42	8.62	8.80
Lease and Plant Fuel 6/ Natural Gas Subtotal	1.12 8.67	1.35 8.78	1.03 8.44	1.02 8.78	1.08 9.02	1.14 9.20	1.21 9.39	1.28 9.55	1.33 9.75	1.40 10.02	1.42 10.22
Metallurgical Coal	0.71	0.62	0.68	0.69	0.68	0.67	0.67	0.66	0.66	0.64	0.63
Steam Coal	1.51	1.47	1.40	1.40	1.41	1.41	1.41	1.41	1.40	1.41	1.41
Net Coal Coke Imports	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01

**Table 2. Energy Consumption by Sector and Source  
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	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Coal Subtotal	2.25	2.12	2.11	2.11	2.11	2.10	2.09	2.08	2.07	2.06	2.06
Renewable Energy 7/	1.64	1.66	1.66	1.72	1.79	1.84	1.87	1.91	1.95	2.00	2.05
Electricity	3.29	3.39	3.34	3.42	3.52	3.59	3.66	3.72	3.76	3.82	3.89
Delivered Energy	24.89	24.94	24.52	24.94	25.70	26.15	26.54	26.86	27.12	27.53	27.91
Electricity Related Losses	7.44	7.53	7.39	7.53	7.73	7.89	8.03	8.12	8.13	8.22	8.32
Total	32.33	32.47	31.91	32.47	33.43	34.03	34.57	34.98	35.26	35.75	36.23
Transportation											
Distillate Fuel 8/	5.32	5.12	5.16	5.37	5.58	5.76	5.93	6.08	6.24	6.42	6.60
Jet Fuel 9/	3.43	3.34	3.26	3.34	3.45	3.56	3.64	3.74	3.83	3.93	4.01
Motor Gasoline 2/	16.17	16.62	16.95	17.53	18.04	18.45	18.80	19.16	19.52	19.88	20.23
Residual Fuel	0.84	0.71	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.80
Liquefied Petroleum Gas	0.02	0.02	0.02	0.03	0.04	0.04	0.05	0.05	0.05	0.06	0.06
Other Petroleum 10/	0.19	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.26
Petroleum Subtotal	25.96	26.06	26.41	27.29	28.13	28.84	29.45	30.07	30.69	31.34	31.96
Pipeline Fuel Natural Gas	0.64	0.65	0.68	0.67	0.67	0.66	0.67	0.67	0.68	0.69	0.70
Compressed Natural Gas	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06
Renewable Energy (E85) 11/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09
Delivered Energy	26.69	26.79	27.18	28.07	28.91	29.63	30.25	30.88	31.51	32.18	32.82
Electricity Related Losses	0.17	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.20
Total	26.85	26.96	27.36	28.24	29.09	29.81	30.43	31.07	31.70	32.37	33.01
Delivered Energy Consumption, All Sectors											
Distillate Fuel	7.92	7.66	7.83	8.02	8.26	8.46	8.64	8.80	8.95	9.15	9.35
Kerosene	0.15	0.09	0.11	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16
Jet Fuel 9/	3.43	3.34	3.26	3.34	3.45	3.56	3.64	3.74	3.83	3.93	4.01
Liquefied Petroleum Gas	2.70	2.86	2.73	2.79	2.87	2.91	2.97	3.01	3.03	3.07	3.11
Motor Gasoline 2/	16.37	16.83	17.16	17.74	18.24	18.65	19.01	19.37	19.72	20.09	20.44
Petrochemical Feedstocks	1.16	1.22	1.27	1.28	1.30	1.32	1.33	1.34	1.33	1.35	1.37
Residual Fuel	1.07	1.00	1.10	1.12	1.12	1.13	1.13	1.13	1.13	1.13	1.14
Other Petroleum 12/	4.45	4.26	4.28	4.19	4.47	4.56	4.60	4.64	4.63	4.61	4.60
Petroleum Subtotal	37.25	37.26	37.74	38.63	39.86	40.75	41.48	42.20	42.79	43.48	44.18
Natural Gas	15.81	15.71	15.90	16.31	16.58	16.87	17.12	17.34	17.60	17.94	18.23
Lease and Plant Fuel 6/	1.12	1.35	1.03	1.02	1.08	1.14	1.21	1.28	1.33	1.40	1.42
Pipeline Natural Gas	0.64	0.65	0.68	0.67	0.67	0.66	0.67	0.67	0.68	0.69	0.70
Natural Gas Subtotal	17.57	17.72	17.60	17.99	18.33	18.68	19.00	19.29	19.61	20.03	20.35
Metallurgical Coal	0.71	0.62	0.68	0.69	0.68	0.67	0.67	0.66	0.66	0.64	0.63
Steam Coal	1.62	1.58	1.51	1.51	1.52	1.52	1.52	1.52	1.51	1.52	1.52
Net Coal Coke Imports	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01
Coal Subtotal	2.36	2.23	2.22	2.22	2.22	2.21	2.20	2.19	2.18	2.17	2.17
Renewable Energy 13/	2.09	2.15	2.17	2.23	2.29	2.34	2.38	2.41	2.45	2.50	2.56
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	11.55	11.92	11.93	12.22	12.52	12.80	13.07	13.34	13.57	13.83	14.10
Delivered Energy	70.83	71.27	71.66	73.29	75.23	76.77	78.12	79.42	80.60	82.03	83.35

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	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Electricity Related Losses	26.12	26.45	26.43	26.91	27.52	28.09	28.65	29.14	29.32	29.75	30.17
Total	96.94	97.72	98.08	100.20	102.75	104.87	106.77	108.56	109.92	111.77	113.52
Electric Generators 14/											
Distillate Fuel	0.33	0.16	0.17	0.17	0.19	0.19	0.20	0.23	0.20	0.16	0.19
Residual Fuel	0.91	0.69	0.83	0.38	0.47	0.46	0.48	0.52	0.51	0.51	0.53
Petroleum Subtotal	1.25	0.85	1.01	0.55	0.66	0.65	0.68	0.75	0.71	0.66	0.72
Natural Gas	5.48	5.65	5.06	5.78	5.81	5.98	6.13	6.48	6.48	6.79	7.05
Steam Coal	19.68	19.96	20.37	20.38	20.96	21.54	22.10	22.34	22.76	23.05	23.27
Nuclear Power	8.03	8.15	7.96	8.13	8.26	8.29	8.30	8.32	8.25	8.29	8.35
Renewable Energy/Other 15/	3.16	3.69	3.81	4.18	4.25	4.33	4.42	4.50	4.59	4.68	4.77
Electricity Imports	0.08	0.07	0.14	0.10	0.11	0.10	0.09	0.09	0.10	0.11	0.11
Total	37.67	38.36	38.35	39.13	40.04	40.89	41.72	42.48	42.89	43.58	44.27
Total Energy Consumption											
Distillate Fuel	8.26	7.82	8.01	8.19	8.44	8.65	8.84	9.03	9.15	9.31	9.54
Kerosene	0.15	0.09	0.11	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16
Jet Fuel 9/	3.43	3.34	3.26	3.34	3.45	3.56	3.64	3.74	3.83	3.93	4.01
Liquefied Petroleum Gas	2.70	2.86	2.73	2.79	2.87	2.91	2.97	3.01	3.03	3.07	3.11
Motor Gasoline 2/	16.37	16.83	17.16	17.74	18.24	18.65	19.01	19.37	19.72	20.09	20.44
Petrochemical Feedstocks	1.16	1.22	1.27	1.28	1.30	1.32	1.33	1.34	1.33	1.35	1.37
Residual Fuel	1.98	1.69	1.93	1.50	1.60	1.59	1.61	1.65	1.64	1.64	1.67
Other Petroleum 12/	4.45	4.26	4.28	4.19	4.47	4.56	4.60	4.64	4.63	4.61	4.60
Petroleum Subtotal	38.49	38.11	38.75	39.18	40.52	41.40	42.16	42.94	43.50	44.15	44.90
Natural Gas	21.30	21.36	20.96	22.09	22.39	22.85	23.25	23.82	24.08	24.73	25.28
Lease and Plant Fuel 6/	1.12	1.35	1.03	1.02	1.08	1.14	1.21	1.28	1.33	1.40	1.42
Pipeline Natural Gas	0.64	0.65	0.68	0.67	0.67	0.66	0.67	0.67	0.68	0.69	0.70
Natural Gas Subtotal	23.05	23.37	22.66	23.77	24.14	24.66	25.13	25.77	26.09	26.82	27.40
Metallurgical Coal	0.71	0.62	0.68	0.69	0.68	0.67	0.67	0.66	0.66	0.64	0.63
Steam Coal	21.30	21.54	21.89	21.89	22.48	23.06	23.62	23.85	24.28	24.57	24.79
Net Coal Coke Imports	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01
Coal Subtotal	22.04	22.18	22.59	22.60	23.18	23.75	24.30	24.53	24.95	25.23	25.44
Nuclear Power	8.03	8.15	7.96	8.13	8.26	8.29	8.30	8.32	8.25	8.29	8.35
Renewable Energy 16/	5.25	5.84	5.98	6.41	6.54	6.67	6.79	6.92	7.04	7.18	7.32
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity Imports	0.08	0.07	0.14	0.10	0.11	0.10	0.09	0.09	0.10	0.11	0.11
Total	96.94	97.72	98.08	100.20	102.75	104.87	106.77	108.56	109.92	111.77	113.52
Energy Use & Related Statistics											
Delivered Energy Use	70.83	71.27	71.66	73.29	75.23	76.77	78.12	79.42	80.60	82.03	83.35
Total Energy Use	96.94	97.72	98.08	100.20	102.75	104.87	106.77	108.56	109.92	111.77	113.52
Population (millions)	285.92	288.93	291.68	294.24	296.76	299.27	301.77	304.27	306.77	309.28	311.79
US GDP (billion 1996 dollars)	9215	9440	9657	10019	10402	10764	11129	11496	11839	12190	12543
Carbon Dioxide Emissions (million metric tons)	5691.7	5729.3	5743.3	5826.0	5985.9	6124.4	6250.5	6357.2	6452.7	6558.8	6657.4

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	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Energy Consumption											
Residential											
Distillate Fuel	0.92	0.91	0.90	0.89	0.89	0.88	0.87	0.86	0.85	0.84	0.83
Kerosene	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10
Liquefied Petroleum Gas	0.57	0.57	0.58	0.59	0.59	0.60	0.60	0.61	0.61	0.62	0.62
Petroleum Subtotal	1.60	1.59	1.59	1.59	1.58	1.58	1.57	1.57	1.56	1.55	1.55
Natural Gas	5.78	5.79	5.81	5.84	5.89	5.91	5.96	6.02	6.08	6.10	6.13
Coal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Renewable Energy 1/ Electricity	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
Delivered Energy	12.83	12.88	12.97	13.06	13.19	13.27	13.38	13.51	13.66	13.72	13.82
Electricity Related Losses	10.71	10.76	10.83	10.92	11.04	11.11	11.18	11.30	11.43	11.49	11.60
Total	23.54	23.64	23.80	23.98	24.23	24.38	24.57	24.81	25.10	25.21	25.42
Commercial											
Distillate Fuel	0.63	0.64	0.65	0.65	0.66	0.66	0.67	0.67	0.67	0.68	0.68
Residual Fuel	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Kerosene	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Liquefied Petroleum Gas	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Motor Gasoline 2/ Petroleum Subtotal	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
0.93	0.94	0.94	0.95	0.96	0.96	0.97	0.97	0.97	0.97	0.98	0.99
Natural Gas	3.65	3.68	3.70	3.72	3.75	3.79	3.84	3.89	3.94	3.97	4.01
Coal	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Renewable Energy 3/ Electricity	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
5.29	5.42	5.53	5.64	5.74	5.86	5.98	6.11	6.24	6.35	6.47	
Delivered Energy	10.08	10.23	10.37	10.51	10.65	10.81	10.98	11.17	11.35	11.50	11.66
Electricity Related Losses	11.28	11.46	11.62	11.79	11.96	12.15	12.32	12.53	12.73	12.91	13.09
Total	21.35	21.69	21.99	22.30	22.61	22.96	23.30	23.70	24.07	24.42	24.75
Industrial 4/											
Distillate Fuel	1.21	1.23	1.25	1.27	1.28	1.29	1.31	1.32	1.34	1.36	1.37
Liquefied Petroleum Gas	2.43	2.48	2.50	2.53	2.57	2.62	2.66	2.70	2.74	2.78	2.81
Petrochemical Feedstocks	1.39	1.41	1.42	1.43	1.45	1.48	1.50	1.52	1.54	1.55	1.57
Residual Fuel	0.21	0.22	0.22	0.23	0.22	0.22	0.22	0.22	0.22	0.23	0.23
Motor Gasoline 2/	0.16	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18
Other Petroleum 5/ Petroleum Subtotal	4.43	4.53	4.63	4.68	4.73	4.78	4.83	4.88	4.93	4.99	5.06
9.84	10.04	10.19	10.31	10.43	10.56	10.70	10.82	10.95	11.08	11.23	
Natural Gas	8.89	8.99	9.05	9.12	9.24	9.39	9.56	9.70	9.84	9.92	10.06
Lease and Plant Fuel 6/ Natural Gas Subtotal	1.44	1.45	1.46	1.48	1.48	1.51	1.57	1.63	1.65	1.64	1.64
10.33	10.45	10.52	10.60	10.72	10.90	11.13	11.33	11.49	11.56	11.70	
Metallurgical Coal	0.62	0.61	0.59	0.58	0.57	0.56	0.54	0.53	0.52	0.51	0.50
Steam Coal	1.42	1.42	1.43	1.43	1.43	1.43	1.44	1.44	1.45	1.45	1.45
Net Coal Coke Imports	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Coal Subtotal	2.05	2.04	2.03	2.01	2.00	1.99	1.99	1.98	1.97	1.96	1.96
Renewable Energy 7/	2.10	2.16	2.21	2.26	2.30	2.35	2.40	2.44	2.48	2.52	2.56
Electricity	3.95	4.02	4.08	4.15	4.21	4.29	4.35	4.41	4.47	4.53	4.60
Delivered Energy	28.28	28.70	29.03	29.32	29.67	30.09	30.57	30.98	31.36	31.65	32.04
Electricity Related Losses	8.42	8.52	8.59	8.67	8.77	8.88	8.96	9.04	9.12	9.20	9.32
Total	36.70	37.22	37.61	37.99	38.44	38.97	39.53	40.02	40.48	40.85	41.36
Transportation											
Distillate Fuel 8/	6.78	6.95	7.11	7.25	7.40	7.57	7.72	7.86	8.02	8.16	8.34
Jet Fuel 9/	4.11	4.20	4.29	4.36	4.42	4.49	4.56	4.63	4.69	4.74	4.79
Motor Gasoline 2/	20.61	20.99	21.31	21.62	21.91	22.20	22.50	22.80	23.11	23.45	23.79
Residual Fuel	0.80	0.80	0.80	0.80	0.81	0.81	0.81	0.81	0.82	0.82	0.82
Liquefied Petroleum Gas	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08
Other Petroleum 10/	0.26	0.26	0.27	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.31
Petroleum Subtotal	32.61	33.27	33.85	34.37	34.88	35.42	35.96	36.48	37.00	37.55	38.13
Pipeline Fuel Natural Gas	0.71	0.72	0.72	0.72	0.72	0.72	0.77	0.82	0.83	0.83	0.82
Compressed Natural Gas	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.09	0.10	0.10	0.10
Renewable Energy (E85) 11/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.09	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11
Delivered Energy	33.49	34.16	34.74	35.28	35.79	36.34	36.93	37.50	38.05	38.59	39.17
Electricity Related Losses	0.20	0.20	0.20	0.21	0.21	0.21	0.22	0.22	0.22	0.23	0.23
Total	33.68	34.36	34.95	35.48	36.00	36.55	37.15	37.72	38.27	38.82	39.40
Delivered Energy Consumption, All Sectors											
Distillate Fuel	9.54	9.74	9.91	10.07	10.23	10.40	10.56	10.71	10.88	11.04	11.22
Kerosene	0.16	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.14
Jet Fuel 9/	4.11	4.20	4.29	4.36	4.42	4.49	4.56	4.63	4.69	4.74	4.79
Liquefied Petroleum Gas	3.16	3.21	3.24	3.28	3.33	3.38	3.43	3.48	3.53	3.57	3.61
Motor Gasoline 2/	20.82	21.21	21.53	21.84	22.13	22.43	22.73	23.03	23.34	23.68	24.03
Petrochemical Feedstocks	1.39	1.41	1.42	1.43	1.45	1.48	1.50	1.52	1.54	1.55	1.57
Residual Fuel	1.14	1.15	1.15	1.16	1.16	1.16	1.16	1.17	1.17	1.17	1.18
Other Petroleum 12/	4.67	4.77	4.88	4.93	4.99	5.03	5.10	5.15	5.21	5.27	5.34
Petroleum Subtotal	44.99	45.84	46.58	47.22	47.86	48.51	49.19	49.83	50.50	51.17	51.89
Natural Gas	18.40	18.53	18.64	18.76	18.97	19.18	19.45	19.71	19.95	20.08	20.30
Lease and Plant Fuel 6/	1.44	1.45	1.46	1.48	1.48	1.51	1.57	1.63	1.65	1.64	1.64
Pipeline Natural Gas	0.71	0.72	0.72	0.72	0.72	0.72	0.77	0.82	0.83	0.83	0.82
Natural Gas Subtotal	20.55	20.70	20.82	20.96	21.16	21.41	21.79	22.16	22.43	22.55	22.76
Metallurgical Coal	0.62	0.61	0.59	0.58	0.57	0.56	0.54	0.53	0.52	0.51	0.50
Steam Coal	1.53	1.53	1.54	1.54	1.54	1.54	1.55	1.55	1.56	1.56	1.56
Net Coal Coke Imports	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Subtotal	2.16	2.15	2.14	2.12	2.11	2.10	2.10	2.09	2.08	2.07	2.07
Renewable Energy 13/	2.61	2.67	2.72	2.76	2.81	2.86	2.91	2.95	2.99	3.03	3.07
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	14.37	14.62	14.87	15.11	15.36	15.61	15.88	16.14	16.41	16.65	16.91
Delivered Energy	84.67	85.97	87.11	88.17	89.30	90.50	91.87	93.16	94.42	95.47	96.69

**Table 2. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Electricity Related Losses	30.61	30.94	31.24	31.57	31.98	32.35	32.68	33.09	33.50	33.83	34.24
Total	115.28	116.92	118.36	119.75	121.28	122.86	124.55	126.25	127.92	129.29	130.93
Electric Generators 14/											
Distillate Fuel	0.28	0.32	0.37	0.44	0.41	0.38	0.33	0.30	0.26	0.31	0.28
Residual Fuel	0.56	0.58	0.60	0.60	0.62	0.63	0.62	0.59	0.59	0.59	0.57
Petroleum Subtotal	0.84	0.90	0.97	1.04	1.03	1.01	0.94	0.89	0.85	0.90	0.85
Natural Gas	7.32	7.52	7.69	7.78	8.07	8.28	8.59	8.75	8.78	8.62	8.55
Steam Coal	23.49	23.70	23.91	24.20	24.51	24.87	25.17	25.66	26.22	26.81	27.57
Nuclear Power	8.38	8.41	8.45	8.48	8.50	8.52	8.52	8.53	8.53	8.53	8.53
Renewable Energy/Other 15/	4.84	4.93	4.99	5.08	5.13	5.19	5.24	5.34	5.47	5.56	5.60
Electricity Imports	0.11	0.11	0.10	0.11	0.10	0.09	0.08	0.07	0.07	0.06	0.05
Total	44.98	45.56	46.11	46.68	47.34	47.97	48.55	49.23	49.92	50.47	51.15
Total Energy Consumption											
Distillate Fuel	9.82	10.06	10.28	10.51	10.63	10.78	10.89	11.01	11.14	11.34	11.51
Kerosene	0.16	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.14
Jet Fuel 9/	4.11	4.20	4.29	4.36	4.42	4.49	4.56	4.63	4.69	4.74	4.79
Liquefied Petroleum Gas	3.16	3.21	3.24	3.28	3.33	3.38	3.43	3.48	3.53	3.57	3.61
Motor Gasoline 2/	20.82	21.21	21.53	21.84	22.13	22.43	22.73	23.03	23.34	23.68	24.03
Petrochemical Feedstocks	1.39	1.41	1.42	1.43	1.45	1.48	1.50	1.52	1.54	1.55	1.57
Residual Fuel	1.70	1.72	1.75	1.76	1.78	1.79	1.78	1.76	1.76	1.76	1.75
Other Petroleum 12/	4.67	4.77	4.88	4.93	4.99	5.03	5.10	5.15	5.21	5.27	5.34
Petroleum Subtotal	45.82	46.74	47.55	48.26	48.88	49.53	50.13	50.72	51.35	52.06	52.74
Natural Gas	25.72	26.05	26.33	26.54	27.04	27.46	28.04	28.46	28.73	28.71	28.86
Lease and Plant Fuel 6/	1.44	1.45	1.46	1.48	1.48	1.51	1.57	1.63	1.65	1.64	1.64
Pipeline Natural Gas	0.71	0.72	0.72	0.72	0.72	0.72	0.77	0.82	0.83	0.83	0.82
Natural Gas Subtotal	27.87	28.22	28.51	28.74	29.24	29.69	30.39	30.91	31.21	31.18	31.32
Metallurgical Coal	0.62	0.61	0.59	0.58	0.57	0.56	0.54	0.53	0.52	0.51	0.50
Steam Coal	25.02	25.23	25.45	25.74	26.05	26.41	26.73	27.21	27.78	28.36	29.13
Net Coal Coke Imports	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Subtotal	25.65	25.85	26.05	26.32	26.62	26.97	27.27	27.74	28.30	28.88	29.64
Nuclear Power	8.38	8.41	8.45	8.48	8.50	8.52	8.52	8.53	8.53	8.53	8.53
Renewable Energy 16/	7.45	7.59	7.71	7.84	7.94	8.05	8.15	8.28	8.46	8.58	8.66
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity Imports	0.11	0.11	0.10	0.11	0.10	0.09	0.08	0.07	0.07	0.06	0.05
Total	115.28	116.92	118.36	119.75	121.28	122.86	124.55	126.25	127.92	129.29	130.93
Energy Use & Related Statistics											
Delivered Energy Use	84.67	85.97	87.11	88.17	89.30	90.50	91.87	93.16	94.42	95.47	96.69
Total Energy Use	115.28	116.92	118.36	119.75	121.28	122.86	124.55	126.25	127.92	129.29	130.93
Population (millions)	314.33	316.90	319.43	321.95	324.47	327.01	329.54	332.08	334.61	337.16	339.72
US GDP (billion 1996 dollars)	12906	13313	13715	14101	14497	14918	15351	15756	16188	16589	17035
Carbon Dioxide Emissions (million metric tons)	6762.7	6857.3	6944.1	7028.4	7123.0	7219.2	7320.0	7428.8	7535.6	7634.2	7754.5

**Table 2. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)**

	2023	2024	2025	2002- 2025
Energy Consumption				
Residential				
Distillate Fuel	0.82	0.81	0.80	-0.5%
Kerosene	0.09	0.09	0.09	1.3%
Liquefied Petroleum Gas	0.63	0.63	0.64	0.8%
Petroleum Subtotal	1.54	1.54	1.53	0.1%
Natural Gas	6.17	6.23	6.26	0.9%
Coal	0.01	0.01	0.01	-0.3%
Renewable Energy 1/ Electricity	0.41	0.41	0.41	0.1%
Delivered Energy	5.80	5.90	5.96	1.4%
Electricity Related Losses	13.94	14.09	14.17	1.0%
Total	11.71	11.86	11.95	1.0%
Total	25.65	25.95	26.12	1.0%
Commercial				
Distillate Fuel	0.69	0.69	0.70	1.6%
Residual Fuel	0.13	0.13	0.13	2.2%
Kerosene	0.02	0.02	0.02	1.4%
Liquefied Petroleum Gas	0.10	0.10	0.10	0.3%
Motor Gasoline 2/ Petroleum Subtotal	0.05	0.05	0.05	0.2%
Petroleum Subtotal	0.99	1.00	1.00	1.4%
Natural Gas	4.05	4.10	4.16	1.1%
Coal	0.10	0.10	0.10	0.0%
Renewable Energy 3/ Electricity	0.10	0.10	0.10	0.0%
Delivered Energy	6.58	6.70	6.83	2.2%
Electricity Related Losses	11.82	12.00	12.19	1.7%
Total	13.28	13.48	13.70	1.8%
Total	25.11	25.48	25.89	1.7%
Industrial 4/				
Distillate Fuel	1.39	1.41	1.43	0.9%
Liquefied Petroleum Gas	2.86	2.90	2.94	1.2%
Petrochemical Feedstocks	1.59	1.60	1.62	1.2%
Residual Fuel	0.23	0.23	0.23	0.5%
Motor Gasoline 2/ Other Petroleum 5/ Petroleum Subtotal	0.19	0.19	0.19	0.8%
Petroleum Subtotal	5.11	5.13	5.17	1.1%
Petroleum Subtotal	11.36	11.46	11.59	1.1%
Natural Gas	10.24	10.40	10.58	1.5%
Lease and Plant Fuel 6/ Natural Gas Subtotal	1.65	1.68	1.69	1.0%
Natural Gas Subtotal	11.89	12.09	12.27	1.5%
Metallurgical Coal	0.49	0.48	0.47	-1.2%
Steam Coal	1.46	1.46	1.47	0.0%
Net Coal Coke Imports	0.01	0.01	0.01	-4.5%

**Table 2. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)**

	2023	2024	2025	2002- 2025
Coal Subtotal	1.95	1.95	1.95	-0.4%
Renewable Energy 7/	2.60	2.65	2.70	2.1%
Electricity	4.68	4.76	4.85	1.6%
Delivered Energy	32.49	32.91	33.35	1.3%
Electricity Related Losses	9.44	9.57	9.72	1.1%
Total	41.93	42.48	43.07	1.2%
Transportation				
Distillate Fuel 8/	8.53	8.72	8.94	2.5%
Jet Fuel 9/	4.84	4.88	4.91	1.7%
Motor Gasoline 2/	24.16	24.55	24.98	1.8%
Residual Fuel	0.82	0.82	0.83	0.6%
Liquefied Petroleum Gas	0.08	0.08	0.08	6.7%
Other Petroleum 10/	0.31	0.32	0.32	1.2%
Petroleum Subtotal	38.73	39.37	40.07	1.9%
Pipeline Fuel Natural Gas	0.84	0.85	0.86	1.2%
Compressed Natural Gas	0.10	0.11	0.11	9.2%
Renewable Energy (E85) 11/	0.00	0.00	0.00	7.6%
Liquid Hydrogen	0.00	0.00	0.00	N/A
Electricity	0.12	0.12	0.12	2.1%
Delivered Energy	39.80	40.46	41.16	1.9%
Electricity Related Losses	0.23	0.24	0.24	1.6%
Total	40.03	40.69	41.40	1.9%
Delivered Energy Consumption, All Sectors				
Distillate Fuel	11.43	11.64	11.88	1.9%
Kerosene	0.14	0.14	0.13	1.7%
Jet Fuel 9/	4.84	4.88	4.91	1.7%
Liquefied Petroleum Gas	3.66	3.71	3.76	1.2%
Motor Gasoline 2/	24.40	24.79	25.22	1.8%
Petrochemical Feedstocks	1.59	1.60	1.62	1.2%
Residual Fuel	1.18	1.18	1.19	0.8%
Other Petroleum 12/	5.40	5.43	5.46	1.1%
Petroleum Subtotal	52.62	53.37	54.18	1.6%
Natural Gas	20.57	20.85	21.11	1.3%
Lease and Plant Fuel 6/	1.65	1.68	1.69	1.0%
Pipeline Natural Gas	0.84	0.85	0.86	1.2%
Natural Gas Subtotal	23.06	23.38	23.66	1.3%
Metallurgical Coal	0.49	0.48	0.47	-1.2%
Steam Coal	1.57	1.57	1.58	0.0%
Net Coal Coke Imports	0.01	0.01	0.01	-4.5%
Coal Subtotal	2.06	2.06	2.06	-0.3%
Renewable Energy 13/	3.11	3.16	3.21	1.8%
Liquid Hydrogen	0.00	0.00	0.00	N/A
Electricity	17.18	17.48	17.77	1.8%
Delivered Energy	98.05	99.45	100.87	1.5%



**Table 2. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)**

	2023	2024	2025	2002- 2025
Electricity Related Losses	34.68	35.15	35.61	1.3%
Total	132.73	134.61	136.48	1.5%
Electric Generators 14/				
Distillate Fuel	0.24	0.26	0.27	2.4%
Residual Fuel	0.55	0.55	0.54	-1.1%
Petroleum Subtotal	0.79	0.82	0.81	-0.2%
Natural Gas	8.43	8.59	8.55	1.8%
Steam Coal	28.46	28.97	29.67	1.7%
Nuclear Power	8.53	8.53	8.53	0.2%
Renewable Energy/Other 15/	5.62	5.70	5.79	2.0%
Electricity Imports	0.04	0.03	0.03	-4.6%
Total	51.86	52.63	53.37	1.4%
Total Energy Consumption				
Distillate Fuel	11.67	11.91	12.15	1.9%
Kerosene	0.14	0.14	0.13	1.7%
Jet Fuel 9/	4.84	4.88	4.91	1.7%
Liquefied Petroleum Gas	3.66	3.71	3.76	1.2%
Motor Gasoline 2/	24.40	24.79	25.22	1.8%
Petrochemical Feedstocks	1.59	1.60	1.62	1.2%
Residual Fuel	1.73	1.74	1.72	0.1%
Other Petroleum 12/	5.40	5.43	5.46	1.1%
Petroleum Subtotal	53.42	54.19	54.99	1.6%
Natural Gas	29.01	29.44	29.66	1.4%
Lease and Plant Fuel 6/	1.65	1.68	1.69	1.0%
Pipeline Natural Gas	0.84	0.85	0.86	1.2%
Natural Gas Subtotal	31.49	31.98	32.21	1.4%
Metallurgical Coal	0.49	0.48	0.47	-1.2%
Steam Coal	30.03	30.54	31.25	1.6%
Net Coal Coke Imports	0.01	0.01	0.01	-4.5%
Coal Subtotal	30.52	31.03	31.73	1.6%
Nuclear Power	8.53	8.53	8.53	0.2%
Renewable Energy 16/	8.73	8.85	9.00	1.9%
Liquid Hydrogen	0.00	0.00	0.00	N/A
Electricity Imports	0.04	0.03	0.03	-4.6%
Total	132.73	134.61	136.48	1.5%
Energy Use & Related Statistics				
Delivered Energy Use	98.05	99.45	100.87	1.5%
Total Energy Use	132.73	134.61	136.48	1.5%
Population (millions)	342.30	344.90	347.53	0.8%
US GDP (billion 1996 dollars)	17500	17980	18520	3.0%
Carbon Dioxide Emissions (million metric tons)	7888.9	8012.3	8142.0	1.5%

**Table 2. Energy Consumption by Sector and Source  
(Quadrillion Btu per Year, Unless Otherwise Noted)**

1/ Includes wood used for residential heating. See Table A18 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.

3/ Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power. See Table A18 for estimates of nonmarketed renewable energy consumption for solar thermal hot water heating and solar photovoltaic electricity generation.

4/ Fuel consumption includes consumption for combined heat and power, which produces electricity, both for sale to the grid and for own use, and other useful thermal energy.

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

6/ Represents natural gas used in the field gathering and processing plant machinery.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.

8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.

9/ Includes only kerosene type.

10/ Includes aviation gasoline and lubricants.

11/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent ethanol was used for this forecast.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

14/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2001 and 2002 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 2001 and 2002 consumption based on: Energy Information Administration (EIA), EIA, Annual Energy Review 2002, DOE/EIA-0384(2002) (Washington, DC, October 2003). 2001 and 2002 gross domestic product: Global Insight macroeconomic model T250803. 2001 and 2002 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2002, DOE/EIA-0573(2002) (Washington, DC, October 2003). Projections: EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E.