

Table 3. Energy Prices by Sector and Source
(2005 dollars per million Btu, unless otherwise noted)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Residential													
Liquefied Petroleum Gases	18.21	19.29	21.16	24.63	24.84	24.53	24.29	24.14	23.80	23.69	23.75	23.78	23.94
Distillate Fuel Oil	12.89	14.73	16.91	17.60	17.14	16.73	16.58	16.42	16.26	16.34	16.93	17.38	17.86
Natural Gas	10.72	12.43	13.04	11.93	12.09	11.82	11.59	11.46	11.15	11.05	11.10	11.14	11.30
Electricity	27.10	27.59	27.62	27.51	27.55	27.66	27.58	27.37	27.26	26.98	27.00	26.96	27.16
Commercial													
Distillate Fuel Oil	10.48	12.68	14.63	15.37	14.83	14.51	14.58	14.57	14.43	14.61	15.05	15.47	15.96
Residual Fuel Oil	6.25	8.41	10.10	7.57	8.16	7.97	7.31	7.43	8.00	8.56	9.69	10.16	10.52
Natural Gas	9.40	11.20	11.38	10.36	10.49	10.18	9.94	9.78	9.44	9.31	9.34	9.36	9.50
Electricity	24.59	25.25	25.73	25.36	25.49	25.50	25.28	24.90	24.81	24.50	24.52	24.53	24.81
Industrial 1/													
Liquefied Petroleum Gases	11.18	16.96	18.96	17.58	17.72	17.31	17.09	16.87	16.44	16.40	16.45	16.47	16.63
Distillate Fuel Oil	10.99	13.08	15.14	15.50	14.80	14.63	14.94	15.23	15.13	15.43	15.71	16.13	16.59
Residual Fuel Oil	5.77	7.77	9.34	9.70	10.81	10.79	10.74	10.04	10.71	11.26	12.07	12.63	13.15
Natural Gas 2/	6.47	8.16	7.45	7.45	7.62	7.29	7.03	6.88	6.52	6.43	6.47	6.50	6.65
Metallurgical Coal	2.31	3.06	3.25	3.30	3.30	3.19	3.11	3.01	2.91	2.81	2.77	2.74	2.75
Other Industrial Coal	1.80	2.15	2.20	2.24	2.26	2.26	2.30	2.31	2.30	2.28	2.28	2.28	2.29
Coal to Liquids	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.91	0.92	0.93	0.95	1.04	1.11
Electricity	15.88	16.69	18.25	18.79	19.04	18.99	18.64	18.07	17.68	17.34	17.33	17.31	17.55
Transportation													
Liquefied Petroleum Gases 3/	19.68	23.92	26.81	22.82	23.04	22.75	24.88	24.73	24.37	24.20	24.23	24.22	24.35
E85 4/	20.91	23.10	24.81	27.44	27.25	26.86	22.41	21.94	21.92	22.22	22.14	22.32	22.90
Motor Gasoline 5/	15.72	18.64	21.15	20.83	21.06	20.87	20.64	20.66	20.92	21.27	21.51	22.19	22.47
Jet Fuel 6/	9.22	13.14	14.96	12.93	12.35	12.50	12.84	12.98	13.21	13.67	14.08	14.42	14.92
Distillate Fuel Oil 7/	13.58	17.52	19.79	19.58	18.76	18.49	18.76	18.77	18.67	19.01	19.24	19.63	20.12
Residual Fuel Oil	4.85	5.51	7.16	9.24	9.54	9.61	9.83	10.13	10.56	10.75	11.11	11.38	11.62
Natural Gas 8/	11.91	14.76	11.99	12.34	12.62	13.13	14.90	14.78	14.57	14.54	14.59	14.74	14.88
Electricity	26.10	25.22	26.11	25.68	25.95	25.99	25.66	25.34	25.34	24.97	24.95	24.93	25.20
Electric Power 9/													
Distillate Fuel Oil	9.52	11.38	13.24	14.42	14.12	13.76	13.59	13.29	13.06	13.03	13.55	14.00	14.41
Residual Fuel Oil	4.99	6.96	7.85	7.32	7.63	7.64	7.59	7.81	8.27	8.70	9.22	9.67	9.95
Natural Gas	6.11	8.18	6.97	7.20	7.39	7.05	6.75	6.58	6.24	6.15	6.19	6.22	6.37
Steam Coal	1.40	1.53	1.67	1.69	1.71	1.72	1.74	1.72	1.70	1.68	1.68	1.68	1.68
Average Price to All Users 10/													
Liquefied Petroleum Gases	12.69	17.48	19.46	19.07	19.22	18.86	18.68	18.50	18.12	18.07	18.14	18.19	18.36
E85 4/	20.91	23.10	24.81	27.44	27.25	26.86	22.41	21.94	21.92	22.22	22.14	22.32	22.90
Motor Gasoline 5/	15.71	18.60	21.11	20.83	21.06	20.87	20.64	20.66	20.92	21.27	21.51	22.19	22.47
Jet Fuel	9.22	13.14	14.96	12.93	12.35	12.50	12.84	12.98	13.21	13.67	14.08	14.42	14.92
Distillate Fuel Oil	12.91	16.22	18.42	18.40	17.70	17.45	17.64	17.63	17.59	17.99	18.27	18.69	19.18
Residual Fuel Oil	5.10	6.59	7.92	8.43	8.84	8.87	8.90	9.07	9.51	9.89	10.42	10.82	11.12
Natural Gas	7.83	9.65	9.14	8.86	9.00	8.68	8.46	8.32	7.99	7.89	7.95	7.97	8.13
Metallurgical Coal	2.31	3.06	3.25	3.30	3.30	3.19	3.11	3.01	2.91	2.81	2.77	2.74	2.75
Other Coal	1.43	1.57	1.71	1.73	1.75	1.76	1.77	1.75	1.73	1.71	1.71	1.71	1.72
Coal to Liquids	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.91	0.92	0.93	0.95	1.04	1.11
Electricity	23.01	23.73	24.37	24.34	24.50	24.56	24.37	24.02	23.86	23.57	23.59	23.59	23.84

Table 3. Energy Prices by Sector and Source
(2005 dollars per million Btu, unless otherwise noted)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Non-Renewable Energy Expenditures by Sector (billion 2005 dollars)													
Residential	195.99	215.13	218.75	222.00	226.21	226.84	227.60	227.96	228.24	227.95	230.76	233.05	237.82
Commercial	141.78	154.38	157.80	156.40	161.37	162.96	163.50	163.99	165.32	166.50	169.72	172.79	177.49
Industrial	184.23	196.07	205.40	219.45	220.45	216.89	213.85	211.48	207.57	207.62	209.57	211.73	216.59
Transportation	385.00	474.66	545.73	536.18	535.63	534.84	538.62	544.23	553.97	569.13	580.75	601.04	616.83
Total Non-Renewable Expenditures	907.00	1040.25	1127.67	1134.03	1143.66	1141.52	1143.57	1147.66	1155.10	1171.20	1190.80	1218.62	1248.74
Transportation Renewable Expenditures	0.02	0.03	0.05	0.04	0.05	0.06	0.09	0.10	0.12	0.13	0.16	0.22	0.28
Total Expenditures	907.02	1040.29	1127.72	1134.07	1143.71	1141.58	1143.66	1147.76	1155.22	1171.33	1190.96	1218.83	1249.02

Table 3. Energy Prices by Sector and Source
(2005 dollars per million Btu, unless otherwise noted)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Residential															
Liquefied Petroleum Gases	24.14	23.94	23.68	23.92	24.09	24.23	24.50	24.51	24.65	24.91	25.06	25.25	25.41	25.65	1.1%
Distillate Fuel Oil	18.09	18.46	18.46	18.95	18.87	19.00	19.03	19.23	19.15	19.31	19.42	19.59	19.69	19.84	1.2%
Natural Gas	11.51	11.31	11.07	11.29	11.46	11.62	11.91	11.91	12.07	12.34	12.51	12.71	12.89	13.12	0.2%
Electricity	27.40	27.42	27.09	26.96	27.21	27.28	27.36	27.37	27.39	27.38	27.37	27.30	27.20	27.24	-0.1%
Commercial															
Distillate Fuel Oil	16.19	16.55	16.52	16.85	16.89	16.96	16.99	17.21	17.28	17.39	17.50	17.76	17.82	18.06	1.4%
Residual Fuel Oil	10.76	10.92	11.01	11.35	11.49	11.55	11.67	11.75	11.84	11.90	12.00	12.13	11.95	12.07	1.5%
Natural Gas	9.68	9.46	9.20	9.41	9.56	9.67	9.93	9.92	10.04	10.27	10.41	10.59	10.73	10.99	-0.5%
Electricity	25.11	25.16	24.87	24.67	24.88	25.00	25.15	25.21	25.24	25.27	25.28	25.24	25.21	25.26	0.0%
Industrial 1/															
Liquefied Petroleum Gases	16.83	16.69	16.42	16.66	16.87	16.97	17.20	17.23	17.33	17.56	17.70	17.88	18.03	18.25	0.3%
Distillate Fuel Oil	16.81	17.18	17.12	17.30	17.44	17.53	17.50	17.75	17.94	17.99	18.12	18.45	18.47	18.79	1.5%
Residual Fuel Oil	13.45	13.66	13.87	14.15	14.22	14.32	14.52	14.71	14.90	15.02	15.10	15.30	15.25	15.36	2.8%
Natural Gas 2/	6.83	6.64	6.39	6.61	6.77	6.90	7.16	7.16	7.29	7.52	7.66	7.84	7.99	8.21	0.0%
Metallurgical Coal	2.75	2.76	2.76	2.76	2.78	2.80	2.81	2.81	2.80	2.78	2.75	2.75	2.76	2.78	-0.4%
Other Industrial Coal	2.29	2.29	2.29	2.32	2.34	2.36	2.36	2.37	2.38	2.39	2.40	2.41	2.42	2.43	0.5%
Coal to Liquids	1.19	1.25	1.31	1.42	1.53	1.57	1.59	1.61	1.67	1.68	1.73	1.74	1.77	1.78	N/A
Electricity	17.82	17.85	17.53	17.41	17.56	17.63	17.72	17.78	17.82	17.86	17.85	17.80	17.68	17.72	0.2%
Transportation															
Liquefied Petroleum Gases 3/	24.54	24.27	23.98	24.20	24.33	24.47	24.76	24.74	24.89	25.15	25.29	25.46	25.62	25.85	0.3%
E85 4/	22.87	22.88	22.97	23.33	23.57	23.79	23.93	23.99	24.31	24.58	24.74	25.09	25.42	25.54	0.4%
Motor Gasoline 5/	22.69	23.08	23.48	23.62	23.99	24.27	24.34	24.56	24.94	25.19	25.50	25.84	26.09	26.42	1.4%
Jet Fuel 6/	15.06	15.48	15.60	15.86	16.02	16.22	16.19	16.37	16.59	16.63	16.83	17.09	17.21	17.44	1.1%
Distillate Fuel Oil 7/	20.32	20.66	20.58	20.72	20.90	20.95	20.97	21.23	21.44	21.50	21.60	21.97	21.98	22.20	1.0%
Residual Fuel Oil	12.10	12.43	12.59	12.85	12.93	13.05	13.31	13.51	13.74	13.91	13.97	14.28	14.28	14.38	3.9%
Natural Gas 8/	15.04	14.95	14.84	14.98	15.15	15.28	15.46	15.48	15.64	15.83	15.98	16.16	16.30	16.55	0.5%
Electricity	25.47	25.56	25.14	24.77	24.97	25.05	25.22	25.25	25.16	25.22	25.27	25.24	25.17	25.19	0.0%
Electric Power 9/															
Distillate Fuel Oil	14.68	15.03	15.07	15.34	15.17	15.32	15.23	15.35	15.28	15.35	15.42	15.56	15.59	15.94	1.4%
Residual Fuel Oil	10.43	10.85	10.96	11.24	11.34	11.40	11.59	11.75	11.92	12.05	12.13	12.50	12.45	12.57	2.4%
Natural Gas	6.54	6.36	6.10	6.32	6.51	6.60	6.84	6.86	6.98	7.18	7.29	7.43	7.55	7.79	-0.2%
Steam Coal	1.69	1.69	1.70	1.71	1.73	1.75	1.75	1.76	1.76	1.77	1.77	1.79	1.79	1.80	0.7%
Average Price to All Users 10/															
Liquefied Petroleum Gases	18.57	18.44	18.20	18.44	18.65	18.77	19.00	19.04	19.17	19.40	19.56	19.74	19.89	20.13	0.6%
E85 4/	22.87	22.88	22.97	23.33	23.57	23.79	23.93	23.99	24.31	24.58	24.74	25.09	25.42	25.54	0.4%
Motor Gasoline 5/	22.68	23.08	23.48	23.61	23.99	24.27	24.34	24.55	24.94	25.19	25.50	25.84	26.08	26.42	1.4%
Jet Fuel	15.06	15.48	15.60	15.86	16.02	16.22	16.19	16.37	16.59	16.63	16.83	17.09	17.21	17.44	1.1%
Distillate Fuel Oil	19.40	19.75	19.71	19.89	20.05	20.12	20.14	20.40	20.60	20.66	20.80	21.16	21.17	21.45	1.1%
Residual Fuel Oil	11.56	11.90	12.04	12.31	12.40	12.49	12.71	12.88	13.08	13.22	13.30	13.60	13.57	13.68	3.0%
Natural Gas	8.34	8.16	7.91	8.15	8.32	8.47	8.73	8.75	8.88	9.12	9.28	9.46	9.62	9.85	0.1%
Metallurgical Coal	2.75	2.76	2.76	2.76	2.78	2.80	2.81	2.81	2.80	2.78	2.75	2.75	2.76	2.78	-0.4%
Other Coal	1.72	1.72	1.73	1.74	1.77	1.78	1.78	1.79	1.79	1.80	1.80	1.82	1.82	1.83	0.6%
Coal to Liquids	1.19	1.25	1.31	1.42	1.53	1.57	1.59	1.61	1.67	1.68	1.73	1.74	1.77	1.78	N/A
Electricity	24.13	24.18	23.87	23.73	23.94	24.04	24.16	24.21	24.24	24.26	24.26	24.21	24.13	24.18	0.1%

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(2005 dollars per million Btu, unless otherwise noted)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005- 2030
Non-Renewable Energy Expenditures by Sector (billion 2005 dollars)															
Residential	241.72	242.98	242.20	246.06	249.48	252.66	256.56	259.29	261.55	265.03	267.82	271.06	272.68	276.15	1.0%
Commercial	182.47	185.04	185.68	188.76	193.71	198.09	203.26	207.09	211.37	216.13	220.66	225.06	229.39	234.83	1.7%
Industrial	220.51	220.03	220.05	224.73	229.14	233.26	238.07	241.84	244.21	249.56	255.46	260.04	264.04	269.71	1.3%
Transportation	628.12	644.52	657.78	668.16	682.87	695.12	703.18	716.99	734.50	747.41	763.04	781.65	794.72	811.45	2.2%
Total Non-Renewable Expenditures	1272.82	1292.57	1305.71	1327.72	1355.19	1379.12	1401.07	1425.21	1451.64	1478.12	1506.98	1537.81	1560.82	1592.14	1.7%
Transportation Renewable Expenditures	0.33	0.50	0.55	0.89	1.19	1.55	1.90	2.37	3.04	3.71	4.59	5.83	7.04	7.62	24.2%
Total Expenditures	1273.15	1293.07	1306.26	1328.60	1356.38	1380.68	1402.97	1427.58	1454.68	1481.84	1511.57	1543.64	1567.87	1599.77	1.7%

Table 3. Energy Prices by Sector and Source
(2005 dollars per million Btu, unless otherwise noted)

- 1/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.
- 2/ Excludes use for lease and plant fuel.
- 3/ Includes Federal and State taxes while excluding county and local taxes.
- 4/ 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 is used for this forecast.
- 5/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
- 6/ Kerosene-type jet fuel. Includes Federal and State taxes while excluding county and local taxes.
- 7/ Diesel fuel for on-road use. Includes Federal and State taxes while excluding county and local taxes.
- 8/ Compressed natural gas used as a vehicle fuel. Includes estimated motor vehicle fuel taxes and estimated dispensing costs or charges.
- 9/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
- 10/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.
- Btu = British thermal unit.
N/A = Not applicable.
- Note: Data for 2004 and 2005 are model results and may differ slightly from official EIA data reports.
- Sources: 2004 and 2005 prices for motor gasoline, distillate fuel oil, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2005, DOE/EIA-0487(2005) (Washington, DC, August 2006). 2004 residential and commercial natural gas delivered prices: EIA, Natural Gas Annual 2004, DOE/EIA-0131(2004) (Washington, DC, December 2005). 2005 residential and commercial natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2006/04) (Washington, DC, April 2006). 2004 and 2005 industrial natural gas delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey 1994 and industrial and wellhead prices from the Natural Gas Annual 2004, DOE/EIA-0131(2004) (Washington, DC, December 2005) and the Natural Gas Monthly, DOE/EIA-0130(2006/04) (Washington, DC, April 2006). 2004 transportation sector natural gas delivered prices are based on: EIA, Natural Gas Annual 2004, DOE/EIA-0131(2004) (Washington, DC, December 2005) and estimated state taxes, federal taxes, and dispensing costs or charges. 2005 transportation sector natural gas delivered prices are model results. 2004 and 2005 electric power sector natural gas prices: EIA, Electric Power Monthly, May 2005 through April 2006, Table 4.11.A. 2004 and 2005 coal prices based on: EIA, Quarterly Coal Report, October-December 2005, DOE/EIA-0121 (2005/4Q) (Washington, DC, March 2006) and EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a. 2004 and 2005 electricity prices: EIA, Annual Energy Review 2005, DOE/EIA-0384(2005) (Washington, DC, July 2006). 2004 and 2005 ethanol prices derived from weekly spot prices in the Oxy Fuel News. Projections: EIA, AEO2007 National Energy Modeling System run hp2007.d112106a.