

**Table A3. Energy prices by sector and source**  
(2011 dollars per million Btu, unless otherwise noted)

Sector and source	Reference case							Annual growth 2011-2040 (percent)
	2010	2011	2020	2025	2030	2035	2040	
<b>Residential</b>								
Propane .....	27.61	25.06	23.41	24.77	25.73	26.70	27.99	0.4%
Distillate fuel oil .....	21.77	26.38	26.91	29.08	31.26	33.71	36.54	1.1%
Natural gas .....	11.36	10.80	11.78	12.67	13.37	14.60	16.36	1.4%
Electricity .....	34.52	34.34	33.62	33.96	34.56	35.42	37.10	0.3%
<b>Commercial</b>								
Propane .....	24.10	22.10	20.04	21.74	22.97	24.23	25.94	0.6%
Distillate fuel oil .....	21.35	25.87	24.26	26.51	28.51	30.91	33.74	0.9%
Residual fuel oil .....	11.39	19.17	14.82	16.60	18.77	20.89	23.41	0.7%
Natural gas .....	9.40	8.84	9.47	10.19	10.70	11.68	13.21	1.4%
Electricity .....	30.49	29.98	28.57	28.49	28.65	29.66	31.75	0.2%
<b>Industrial<sup>1</sup></b>								
Propane .....	23.73	22.54	20.51	22.33	23.64	24.97	26.78	0.6%
Distillate fuel oil .....	21.87	26.50	24.67	27.02	28.91	31.31	34.16	0.9%
Residual fuel oil .....	11.30	18.86	17.19	18.96	21.09	23.25	25.78	1.1%
Natural gas <sup>2</sup> .....	5.48	4.89	5.53	6.15	6.56	7.45	8.88	2.1%
Metallurgical coal .....	5.96	7.01	8.75	9.36	10.09	10.69	11.11	1.6%
Other industrial coal .....	2.77	3.43	3.44	3.56	3.71	3.88	4.06	0.6%
Coal to liquids .....	--	--	--	2.30	2.55	2.76	2.95	--
Electricity .....	20.26	19.98	18.72	19.18	19.73	20.80	22.74	0.4%
<b>Transportation</b>								
Propane <sup>3</sup> .....	27.52	26.06	24.48	25.83	26.80	27.77	29.07	0.4%
E85 <sup>4</sup> .....	25.56	25.30	29.64	27.27	26.94	29.19	30.58	0.7%
Motor gasoline <sup>5</sup> .....	23.18	28.70	27.84	29.26	30.73	32.99	36.18	0.8%
Jet fuel <sup>6</sup> .....	16.57	22.49	21.50	23.73	26.03	28.52	31.07	1.1%
Diesel fuel (distillate fuel oil) <sup>7</sup> .....	22.38	26.15	26.61	28.98	30.81	33.19	36.05	1.1%
Residual fuel oil .....	10.62	17.83	14.91	16.58	18.34	20.25	22.45	0.8%
Natural gas <sup>8</sup> .....	16.51	16.14	16.87	17.97	18.90	19.86	21.20	0.9%
Electricity .....	33.91	32.77	29.60	30.40	31.53	32.84	35.07	0.2%
<b>Electric power<sup>9</sup></b>								
Distillate fuel oil .....	19.22	23.30	22.45	24.61	26.80	29.23	32.03	1.1%
Residual fuel oil .....	12.11	15.97	24.94	27.29	29.36	31.85	34.54	2.7%
Natural gas .....	5.26	4.77	4.90	5.58	6.05	6.98	8.38	2.0%
Steam coal .....	2.30	2.38	2.52	2.69	2.87	3.03	3.20	1.0%
<b>Average price to all users<sup>10</sup></b>								
Propane .....	16.23	17.13	13.69	16.07	18.14	20.43	23.79	1.1%
E85 <sup>4</sup> .....	25.56	25.30	29.64	27.27	26.94	29.19	30.58	0.7%
Motor gasoline <sup>5</sup> .....	23.06	28.47	27.84	29.26	30.72	32.99	36.17	0.8%
Jet fuel .....	16.57	22.49	21.50	23.73	26.03	28.52	31.07	1.1%
Distillate fuel oil .....	22.17	26.18	26.25	28.62	30.48	32.88	35.73	1.1%
Residual fuel oil .....	11.06	17.65	15.97	17.72	19.59	21.61	23.95	1.1%
Natural gas .....	7.27	6.68	7.07	7.76	8.27	9.31	10.94	1.7%
Metallurgical coal .....	5.96	7.01	8.75	9.36	10.09	10.69	11.11	1.6%
Other coal .....	2.33	2.45	2.57	2.74	2.92	3.08	3.25	1.0%
Coal to liquids .....	--	--	--	2.30	2.55	2.76	2.95	--
Electricity .....	29.40	29.03	27.50	27.79	28.41	29.55	31.58	0.3%
<b>Non-renewable energy expenditures by sector (billion 2011 dollars)</b>								
Residential .....	253.56	248.08	243.44	256.13	271.05	290.43	319.63	0.9%
Commercial .....	182.47	179.97	181.68	192.15	203.80	221.86	249.60	1.1%
Industrial .....	210.38	225.18	259.03	283.62	294.99	316.87	353.70	1.6%
Transportation .....	584.31	718.25	694.73	722.24	749.40	808.74	900.68	0.8%
Total non-renewable expenditures .....	1,230.73	1,371.48	1,378.87	1,454.13	1,519.24	1,637.91	1,823.61	1.0%
Transportation renewable expenditures .....	0.16	1.24	2.44	3.92	4.39	4.43	5.05	5.0%
<b>Total expenditures .....</b>	<b>1,230.88</b>	<b>1,372.71</b>	<b>1,381.31</b>	<b>1,458.06</b>	<b>1,523.63</b>	<b>1,642.34</b>	<b>1,828.66</b>	<b>1.0%</b>

**Table A3. Energy prices by sector and source (continued)**  
(nominal dollars per million Btu, unless otherwise noted)

Sector and source	Reference case							Annual growth 2011-2040 (percent)
	2010	2011	2020	2025	2030	2035	2040	
<b>Residential</b>								
Propane .....	27.04	25.06	27.00	31.21	35.51	40.35	46.20	2.1%
Distillate fuel oil .....	21.31	26.38	31.03	36.64	43.14	50.93	60.31	2.9%
Natural gas .....	11.12	10.80	13.58	15.97	18.45	22.06	27.01	3.2%
Electricity .....	33.80	34.34	38.76	42.80	47.69	53.52	61.23	2.0%
<b>Commercial</b>								
Propane .....	23.60	22.10	23.11	27.39	31.70	36.62	42.82	2.3%
Distillate fuel oil .....	20.91	25.87	27.97	33.41	39.34	46.71	55.68	2.7%
Residual fuel oil .....	11.15	19.17	17.09	20.92	25.90	31.56	38.64	2.4%
Natural gas .....	9.20	8.84	10.92	12.85	14.76	17.65	21.81	3.2%
Electricity .....	29.86	29.98	32.94	35.90	39.54	44.82	52.40	1.9%
<b>Industrial<sup>1</sup></b>								
Propane .....	23.23	22.54	23.65	28.14	32.62	37.74	44.20	2.3%
Distillate fuel oil .....	21.42	26.50	28.45	34.05	39.89	47.31	56.39	2.6%
Residual fuel oil .....	11.06	18.86	19.82	23.89	29.10	35.13	42.55	2.8%
Natural gas <sup>2</sup> .....	5.37	4.89	6.38	7.75	9.05	11.25	14.66	3.9%
Metallurgical coal .....	5.84	7.01	10.09	11.79	13.92	16.15	18.34	3.4%
Other industrial coal .....	2.71	3.43	3.97	4.48	5.12	5.86	6.70	2.3%
Coal to liquids .....	- -	- -	- -	2.90	3.52	4.17	4.87	- -
Electricity .....	19.84	19.98	21.59	24.17	27.22	31.42	37.54	2.2%
<b>Transportation</b>								
Propane <sup>3</sup> .....	26.95	26.06	28.22	32.56	36.98	41.97	47.97	2.1%
E85 <sup>4</sup> .....	25.03	25.30	34.18	34.37	37.18	44.10	50.46	2.4%
Motor gasoline <sup>5</sup> .....	22.70	28.70	32.10	36.88	42.41	49.85	59.72	2.6%
Jet fuel <sup>6</sup> .....	16.22	22.49	24.79	29.90	35.92	43.09	51.27	2.9%
Diesel fuel (distillate fuel oil) <sup>7</sup> .....	21.91	26.15	30.68	36.52	42.52	50.16	59.50	2.9%
Residual fuel oil .....	10.40	17.83	17.19	20.89	25.31	30.60	37.06	2.6%
Natural gas <sup>8</sup> .....	16.17	16.14	19.46	22.65	26.08	30.01	34.98	2.7%
Electricity .....	33.20	32.77	34.13	38.31	43.51	49.63	57.88	2.0%
<b>Electric power<sup>9</sup></b>								
Distillate fuel oil .....	18.82	23.30	25.89	31.02	36.98	44.17	52.87	2.9%
Residual fuel oil .....	11.86	15.97	28.76	34.39	40.52	48.13	57.01	4.5%
Natural gas .....	5.15	4.77	5.65	7.03	8.35	10.55	13.83	3.7%
Steam coal .....	2.25	2.38	2.90	3.39	3.96	4.58	5.28	2.8%

**Table A3. Energy prices by sector and source (continued)**  
(nominal dollars per million Btu, unless otherwise noted)

Sector and source	Reference case							Annual growth 2011-2040 (percent)
	2010	2011	2020	2025	2030	2035	2040	
<b>Average price to all users<sup>10</sup></b>								
Propane .....	15.89	17.13	15.78	20.26	25.03	30.86	39.26	2.9%
E85 <sup>4</sup> .....	25.03	25.30	34.18	34.37	37.18	44.10	50.46	2.4%
Motor gasoline <sup>5</sup> .....	22.58	28.47	32.10	36.87	42.40	49.84	59.70	2.6%
Jet fuel .....	16.22	22.49	24.79	29.90	35.92	43.09	51.27	2.9%
Distillate fuel oil .....	21.71	26.18	30.27	36.06	42.07	49.68	58.97	2.8%
Residual fuel oil .....	10.83	17.65	18.41	22.33	27.03	32.66	39.53	2.8%
Natural gas .....	7.12	6.68	8.16	9.78	11.41	14.06	18.06	3.5%
Metallurgical coal .....	5.84	7.01	10.09	11.79	13.92	16.15	18.34	3.4%
Other coal .....	2.28	2.45	2.97	3.46	4.03	4.65	5.37	2.7%
Coal to liquids .....	--	--	--	2.90	3.52	4.17	4.87	--
Electricity .....	28.79	29.03	31.71	35.02	39.20	44.65	52.12	2.0%
<b>Non-renewable energy expenditures by sector (billion nominal dollars)</b>								
Residential .....	248.27	248.08	280.71	322.77	374.04	438.86	527.54	2.6%
Commercial .....	178.66	179.97	209.48	242.14	281.23	335.25	411.95	2.9%
Industrial .....	205.99	225.18	298.68	357.41	407.07	478.81	583.76	3.3%
Transportation .....	572.11	718.25	801.07	910.16	1,034.13	1,222.05	1,486.52	2.5%
Total non-renewable expenditures .....	1,205.03	1,371.48	1,589.94	1,832.48	2,096.47	2,474.97	3,009.77	2.7%
Transportation renewable expenditures .....	0.15	1.24	2.81	4.95	6.06	6.70	8.33	6.8%
<b>Total expenditures .....</b>	<b>1,205.18</b>	<b>1,372.71</b>	<b>1,592.75</b>	<b>1,837.43</b>	<b>2,102.52</b>	<b>2,481.67</b>	<b>3,018.11</b>	<b>2.8%</b>

<sup>1</sup>Includes energy for combined heat and power plants that have a non-regulatory status, and small on-site generating systems.

<sup>2</sup>Excludes use for lease and plant fuel.

<sup>3</sup>Includes Federal and State taxes while excluding county and local taxes.

<sup>4</sup>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 varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

<sup>5</sup>Sales weighted-average price for all grades. Includes Federal, State and local taxes.

<sup>6</sup>Kerosene-type jet fuel. Includes Federal and State taxes while excluding county and local taxes.

<sup>7</sup>Diesel fuel for on-road use. Includes Federal and State taxes while excluding county and local taxes.

<sup>8</sup>Natural gas used as a vehicle fuel. Includes estimated motor vehicle fuel taxes and estimated dispensing costs or charges.

<sup>9</sup>Includes electricity-only and combined heat and power plants that have a regulatory status.

<sup>10</sup>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.

-- = Not applicable.

Note: Data for 2010 and 2011 are model results and may differ slightly from official EIA data reports.

Sources: 2010 and 2011 prices for motor gasoline, distillate fuel oil, and jet fuel are based on prices in the U.S. Energy Information Administration (EIA), *Petroleum Marketing Monthly*, DOE/EIA-0380(2012/08) (Washington, DC, August 2012). 2010 residential, commercial, and industrial natural gas delivered prices: EIA, *Natural Gas Annual 2010*, DOE/EIA-0131(2010) (Washington, DC, December 2011). 2011 residential, commercial, and industrial natural gas delivered prices: EIA, *Natural Gas Monthly*, DOE/EIA-0130(2012/07) (Washington, DC, July 2012). 2010 transportation sector natural gas delivered prices are based on: EIA, *Natural Gas Annual 2010*, DOE/EIA-0131(2010) (Washington, DC, December 2011) and estimated State taxes, Federal taxes, and dispensing costs or charges. 2011 transportation sector natural gas delivered prices are model results. 2010 and 2011 electric power sector distillate and residual fuel oil prices: EIA, *Monthly Energy Review*, DOE/EIA-0035(2012/09) (Washington, DC, September 2012). 2010 and 2011 electric power sector natural gas prices: EIA, *Electric Power Monthly*, DOE/EIA-0226, April 2011 and April 2012, Table 4.2, and EIA, *State Energy Data Report 2010*, DOE/EIA-0214(2010) (Washington, DC, June 2012). 2010 and 2011 coal prices based on: EIA, *Quarterly Coal Report, October-December 2011*, DOE/EIA-0121(2011/4Q) (Washington, DC, March 2012) and EIA, AEO2013 National Energy Modeling System run REF2013.D102312A. 2010 and 2011 electricity prices: EIA, *Annual Energy Review 2011*, DOE/EIA-0384(2011) (Washington, DC, September 2012). 2010 and 2011 E85 prices derived from monthly prices in the Clean Cities Alternative Fuel Price Report.

Projections: EIA, AEO2013 National Energy Modeling System run REF2013.D102312A.