Table A3. Energy prices by sector and source (2012 dollars per million Btu, unless otherwise noted)

Sector and source	Reference case							
	2011	2012	2020	2025	2030	2035	2040	growth 2012-2040 (percent)
Residential								
Propane	25.28	24.12	23.79	24.86	25.75	26.84	27.64	0.5%
Distillate fuel oil	26.93	27.30	24.67	26.95	28.60	30.57	32.64	0.6%
Natural gas	10.98	10.46	11.59	12.48	13.50	14.61	15.98	1.5%
Electricity	34.95	34.83	36.15	36.14	36.98	37.82	38.83	0.4%
Commercial								
Propane	22.20	20.75	20.33	21.66	22.79	24.14	25.17	0.7%
Distillate fuel oil	26.43	26.81	21.77	24.01	25.66	27.69	29.72	0.4%
Residual fuel oil	19.41	22.84	14.40	16.13	17.92	19.36	20.99	-0.3%
Natural gas	8.96	8.11	9.49	10.29	11.19	11.95	13.08	1.7%
Electricity	30.53	29.55	30.80	30.55	31.26	31.98	33.01	0.4%
Industrial ¹								
Propane	22.63	21.09	20.64	22.06	23.27	24.73	25.84	0.7%
Distillate fuel oil	27.04	27.41	22.22	24.45	26.11	27.97	29.92	0.3%
Residual fuel oil	19.17	20.90	14.88	16.65	18.29	19.79	21.48	0.1%
Natural gas ²	5.09	3.77	5.79	6.32	6.99	7.76	8.59	3.0%
Metallurgical coal	7.13	7.25	8.43	8.95	9.51	9.93	10.20	1.2%
Other industrial coal	3.31	3.24	3.59	3.73	3.88	4.03	4.19	0.9%
Coal to liquids								
Electricity	20.35	19.50	20.77	21.08	21.99	22.91	24.05	0.8%
Transportation	00.00	05.44	04.05	05.00	00.04	00.04	00.00	0.50/
Propane	26.29	25.14	24.85	25.92	26.81	28.01	28.82	0.5%
E85 ³ Motor gasoline ⁴	44.13	35.06	25.61	27.53	27.91	30.68	35.49	0.0%
Jet fuel ⁵	30.32 23.02	30.68 22.99	25.59 19.47	27.37 21.96	28.54 23.71	30.40 25.83	32.67 28.07	0.2% 0.7%
Diesel fuel (distillate fuel oil) ⁶	28.37	28.80	26.80	29.02	30.68	32.60	34.53	0.7%
Residual fuel oil	18.05	20.07	12.46	14.16	15.50	16.94	18.55	-0.3%
Natural gas ⁷	15.90	14.64	15.62	15.57	16.63	18.09	19.67	1.1%
Electricity	34.00	31.43	29.86	30.09	31.68	32.65	34.19	0.3%
Floatuia nausus ⁸								
Electric power ⁸	22.70	24.42	20.66	22.04	24.65	26.60	20.01	0.69/
Distillate fuel oilResidual fuel oil	23.79 15.94	24.12 20.68	20.66 13.86	22.94 15.59	24.65 17.14	26.68 18.74	28.81 20.42	0.6% 0.0%
Natural gas	4.88	3.44	5.07	5.76	6.49	7.29	8.16	3.1%
Steam coal	2.42	2.39	2.61	2.77	2.93	3.05	3.19	1.0%
Average price to all users ⁹								
Propane	24.39	23.24	22.54	23.68	24.66	25.89	26.79	0.5%
E85 ³	44.13	35.06	25.61	27.53	27.91	30.68	35.49	0.0%
Motor gasoline ⁴	30.18	30.44	25.58	27.37	28.53	30.40	32.67	0.3%
Jet fuel ⁵	23.02	22.99	19.47	21.96	23.71	25.83	28.07	0.7%
Distillate fuel oil	27.95	28.36	25.70	27.98	29.67	31.58	33.54	0.6%
Residual fuel oil	17.80	20.41	13.15	14.88	16.32	17.79	19.42	-0.2%
Natural gas	6.83	5.38	7.09	7.72	8.49	9.33	10.38	2.4%
Metallurgical coal	7.13	7.25	8.43	8.95	9.51	9.93	10.20	1.2%
Other coal	2.48	2.44	2.67	2.83	2.98	3.11	3.25	1.0%
Coal to liquids								
Electricity	29.52	28.85	29.72	29.67	30.56	31.49	32.63	0.4%
Non-renewable energy expenditures by								
sector (billion 2012 dollars)								
Residential	249.85	234.06	249.25	258.12	272.82	287.79	306.56	1.0%
Commercial	183.94	173.25	189.44	200.39	215.91	232.66	255.39	1.4%
Industrial ¹	232.59	213.75	279.45	315.89	343.02	365.43	390.91	2.2%
Transportation	757.76	755.09	632.05	653.92	667.67	711.27	772.91	0.1%
Total non-renewable expenditures	1,424.14	1,376.15	1,350.18	1,428.32	1,499.43	1,597.14	1,725.77	0.8%
Transportation renewable expenditures	0.12	0.50	4.89	10.53	12.96	13.30	11.80	11.9%
Total expenditures	1,424.26	1,376.66	1,355.07	1,438.85	1,512.39	1,610.44	1,737.56	0.8%

Table A3. Energy prices by sector and source (continued)

(nominal dollars per million Btu, unless otherwise noted)

Sector and source	Reference case							
	2011	2012	2020	2025	2030	2035	2040	growth 2012-2040 (percent)
Residential								
Propane	24.83	24.12	26.94	30.63	34.67	39.98	45.83	2.3%
Distillate fuel oil	26.46	27.30	27.94	33.19	38.50	45.53	54.12	2.5%
Natural gas	10.79	10.46	13.13	15.37	18.18	21.75	26.49	3.4%
Electricity	34.34	34.83	40.94	44.52	49.78	56.33	64.39	2.2%
Commercial								
Propane	21.81	20.75	23.02	26.69	30.68	35.95	41.74	2.5%
Distillate fuel oil	25.97	26.81	24.66	29.57	34.54	41.24	49.27	2.2%
Residual fuel oil	19.07	22.84	16.31	19.87	24.12	28.84	34.80	1.5%
Natural gas	8.80	8.11	10.75	12.67	15.07	17.80	21.68	3.6%
Electricity	30.00	29.55	34.88	37.63	42.08	47.64	54.73	2.2%
Industrial ¹								
Propane	22.24	21.09	23.38	27.18	31.32	36.84	42.83	2.6%
Distillate fuel oil	26.56	27.41	25.17	30.12	35.15	41.66	49.61	2.1%
Residual fuel oil	18.84	20.90	16.85	20.51	24.62	29.47	35.61	1.9%
Natural gas ²	5.00	3.77	6.56	7.79	9.41	11.55	14.25	4.9%
Metallurgical coal	7.01	7.25	9.55	11.03	12.81	14.80	16.91	3.1%
Other industrial coal	3.25	3.24	4.07	4.59	5.23	6.00	6.95	2.8%
Coal to liquids								
Electricity	19.99	19.50	23.52	25.96	29.60	34.13	39.88	2.6%
Transportation								
Propane	25.83	25.14	28.14	31.93	36.09	41.71	47.79	2.3%
E85 ³	43.36	35.06	29.00	33.92	37.57	45.69	58.85	1.9%
Motor gasoline⁴	29.79	30.68	28.98	33.72	38.42	45.28	54.17	2.1%
Jet fuel ⁵	22.61	22.99	22.06	27.05	31.91	38.47	46.53	2.5%
Diesel fuel (distillate fuel oil) ⁶	27.87	28.80	30.35	35.75	41.30	48.56	57.25	2.5%
Residual fuel oil	17.73	20.07	14.11	17.44	20.86	25.23	30.76	1.5%
Natural gas ⁷	15.62	14.64	17.69	19.18	22.38	26.95	32.61	2.9%
Electricity	33.40	31.43	33.82	37.07	42.65	48.63	56.68	2.1%
Electric power ⁸								
Distillate fuel oil	23.37	24.12	23.40	28.26	33.18	39.74	47.77	2.5%
Residual fuel oil	15.67	20.68	15.70	19.21	23.08	27.92	33.86	1.8%
Natural gas	4.80	3.44	5.75	7.09	8.74	10.85	13.53	5.0%
Steam coal	2.38	2.39	2.96	3.42	3.94	4.54	5.29	2.9%

Table A3. Energy prices by sector and source (continued)

(nominal dollars per million Btu, unless otherwise noted)

Sector and source	Reference case							
	2011	2012	2020	2025	2030	2035	2040	2012-2040 (percent)
Average price to all users ⁹	•	•	•	•	•	•	•	•
Propane	23.96	23.24	25.53	29.17	33.20	38.55	44.42	2.3%
E85 ³	43.36	35.06	29.00	33.92	37.57	45.69	58.85	1.9%
Motor gasoline ⁴	29.66	30.44	28.98	33.71	38.41	45.28	54.17	2.1%
Jet fuel ⁵	22.61	22.99	22.06	27.05	31.91	38.47	46.53	2.5%
Distillate fuel oil	27.46	28.36	29.11	34.46	39.94	47.04	55.61	2.4%
Residual fuel oil	17.49	20.41	14.90	18.32	21.97	26.49	32.20	1.6%
Natural gas	6.71	5.38	8.04	9.51	11.43	13.90	17.22	4.2%
Metallurgical coal	7.01	7.25	9.55	11.03	12.81	14.80	16.91	3.1%
Other coal	2.43	2.44	3.03	3.49	4.02	4.63	5.39	2.9%
Coal to liquids								
Electricity	29.01	28.85	33.66	36.55	41.13	46.90	54.11	2.3%
Non-renewable energy expenditures by								
sector (billion nominal dollars) Residential	245.47	234.06	282.30	317.94	367.27	428.63	508.27	2.8%
Commercial	180.72	173.25	202.30	246.83	290.65	346.52	423.44	3.2%
Industrial ¹	228.52	213.75	316.50	389.11	461.77	544.27	648.12	4.0%
Transportation	744.51	755.09	715.87	805.47	898.80	1,059.37	1,281.47	1.9%
Total non-renewable expenditures		1.376.15	1.529.23	1.759.34		2.378.79	2.861.30	2.6%
Transportation renewable expenditures	0.12	0.50	5.54	1,759.54	17.45	19.81	19.56	14.0%
Total expenditures		1,376.66	1,534.77		2,035.94		2,880.86	2.7%

¹Includes energy for combined heat and power plants that have a non-regulatory status, and small on-site generating systems.
¹Excludes use for lease and plant fuel.
¹Ess 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.
¹Sales weighted-average price for all grades. Includes Federal, State and local taxes.
¹States weighted-average price for all grades. Includes Federal and State taxes while excluding county and local taxes.
¹Natural gas used as fuel in motor vehicles, trains, and ships. Price includes estimated motor vehicle fuel taxes and estimated dispensing costs or charges.
¹Includes electricity-only and combined heat and power plants that have a regulatory status.
³Neighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.
Blu = British thermal unit.
--- Not applicable.
Note: Data for 2011 and 2012 are model results and may differ from official EIA data reports.
Sources: 2011 and 2012 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-0313(2011) (Washington, DC, August 2013). 2011 residential, commercial, and industrial natural gas delivered prices: EIA, Natural Gas Annual 2011, DOE/EIA-0131(2011) (Washington, DC, December 2012). 2012 residential, commercial, and industrial natural gas delivered prices: EIA, Natural Gas Monthly, DoE/EIA-0131(2011) (Washington, DC, December 2012). 2012 residential, commercial, and industrial natural gas delivered prices are assed on: EIA, Natural Gas Annual 2011, DOE/EIA-0131(2011) (Washington, DC, December 2012). 2012 residential, commercial, and industrial natural gas delivered prices are assed on: EIA, Natural Gas Annual 2011, DOE/EIA-0131(2011) (Washington, DC, September 2012). 201