

Table 6. Industrial Sector Key Indicators and Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Value of Shipments (billion 1996 dollars)											
Manufacturing	4059	4064	4043	4219	4373	4508	4640	4754	4876	5013	5155
Nonmanufacturing	1309	1222	1183	1211	1268	1295	1318	1351	1389	1425	1457
Total	5368	5285	5226	5430	5640	5803	5958	6105	6265	6439	6612
Energy Prices (2002 dollars per million Btu)											
Distillate Oil	6.62	6.21	6.87	6.27	5.79	5.69	5.68	5.68	5.68	5.68	5.72
Liquefied Petroleum Gas	12.48	8.28	10.56	10.33	9.27	9.42	9.49	9.61	9.72	9.72	9.90
Residual Oil	3.31	3.89	4.60	3.82	3.61	3.63	3.66	3.69	3.72	3.74	3.78
Motor Gasoline	11.70	11.04	12.21	11.14	11.59	11.69	11.74	11.78	11.83	11.84	11.85
Natural Gas	4.91	3.75	5.60	4.50	4.17	4.09	4.13	4.24	4.11	4.05	4.19
Metallurgical Coal	1.71	1.87	2.03	2.02	1.99	1.98	1.96	1.97	1.96	1.96	1.94
Steam Coal	1.51	1.52	1.63	1.61	1.59	1.58	1.58	1.59	1.58	1.58	1.58
Electricity	15.11	14.74	13.96	13.67	13.52	13.37	13.26	13.37	13.49	13.36	13.30
Energy Consumption 1/ (quadrillion Btu)											
Distillate	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
Other Petroleum 2/ Petroleum Subtotal	4.42	4.19	4.21	4.11	4.40	4.50	4.53	4.57	4.56	4.54	4.53
Natural Gas	9.04	9.00	8.98	8.90	9.27	9.42	9.53	9.61	9.59	9.63	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 3/ Natural Gas Subtotal	1.12	1.35	1.03	1.02	1.08	1.14	1.21	1.28	1.33	1.40	1.42
Metallurgical Coal & Coke 4/ Steam Coal	8.67	8.78	8.44	8.78	9.02	9.20	9.39	9.55	9.75	10.02	10.22
Coal Subtotal	0.74	0.65	0.70	0.71	0.70	0.69	0.68	0.67	0.67	0.66	0.64
Steam Coal	1.51	1.47	1.40	1.40	1.41	1.41	1.41	1.41	1.40	1.41	1.41
Coal Subtotal	2.25	2.12	2.11	2.11	2.11	2.10	2.09	2.08	2.07	2.06	2.06
Renewables 5/ Purchased Electricity	1.64	1.66	1.66	1.72	1.79	1.84	1.87	1.91	1.95	2.00	2.05
Delivered Energy	3.29	3.39	3.34	3.42	3.52	3.59	3.66	3.72	3.76	3.82	3.89
Electricity Related Losses	24.89	24.94	24.52	24.94	25.70	26.15	26.54	26.86	27.12	27.53	27.91
Total	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
Energy Consumption per dollar of Shipments 1/ (thousand Btu per 1996 dollar)											
Distillate	0.23	0.22	0.22	0.21	0.20	0.20	0.19	0.19	0.18	0.18	0.18
Liquefied Petroleum Gas	0.39	0.42	0.40	0.40	0.39	0.39	0.38	0.38	0.37	0.37	0.36
Petrochemical Feedstocks	0.22	0.23	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.21
Residual Fuel	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03
Other Petroleum 2/ Total	0.82	0.79	0.81	0.76	0.78	0.77	0.76	0.75	0.73	0.71	0.69

Table 6. Industrial Sector Key Indicators and Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Petroleum Subtotal	1.68	1.70	1.72	1.64	1.64	1.62	1.60	1.57	1.53	1.50	1.47
Natural Gas	1.41	1.41	1.42	1.43	1.41	1.39	1.37	1.35	1.34	1.34	1.33
Lease and Plant Fuel 3/ Natural Gas Subtotal	0.21	0.26	0.20	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.21
Metallurgical Coal & Coke 4/ Steam Coal	0.14	0.12	0.13	0.13	0.12	0.12	0.11	0.11	0.11	0.10	0.10
Coal Subtotal	0.28	0.28	0.27	0.26	0.25	0.24	0.24	0.23	0.22	0.22	0.21
Renewables 5/ Purchased Electricity	0.42	0.40	0.40	0.39	0.37	0.36	0.35	0.34	0.33	0.32	0.31
Delivered Energy	0.30	0.31	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.31
Electricity Related Losses	0.61	0.64	0.64	0.63	0.62	0.62	0.61	0.61	0.60	0.59	0.59
Total	4.64	4.72	4.69	4.59	4.56	4.51	4.45	4.40	4.33	4.28	4.22
	1.39	1.42	1.41	1.39	1.37	1.36	1.35	1.33	1.30	1.28	1.26
	6.02	6.14	6.11	5.98	5.93	5.87	5.80	5.73	5.63	5.55	5.48

Table 6. Industrial Sector Key Indicators and Consumption

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Value of Shipments (billion 1996 dollars)											
Manufacturing	5297	5449	5601	5760	5932	6122	6307	6462	6634	6796	6988
Nonmanufacturing	1484	1527	1561	1585	1605	1628	1664	1679	1710	1730	1763
Total	6782	6976	7162	7345	7536	7749	7970	8140	8344	8526	8752
Energy Prices (2002 dollars per million Btu)											
Distillate Oil	5.75	5.78	5.79	5.85	5.93	6.03	6.14	6.19	6.24	6.27	6.29
Liquefied Petroleum Gas	9.97	10.07	10.12	10.29	10.41	10.47	10.51	10.58	10.66	10.74	10.82
Residual Oil	3.80	3.83	3.86	3.88	3.92	3.95	3.98	4.00	4.03	4.06	4.09
Motor Gasoline	11.82	11.83	11.83	11.84	11.87	11.86	11.86	11.87	11.87	11.89	11.93
Natural Gas	4.37	4.55	4.65	4.81	4.84	4.84	4.81	4.78	4.89	5.05	5.02
Metallurgical Coal	1.92	1.91	1.91	1.90	1.89	1.88	1.88	1.87	1.84	1.82	1.80
Steam Coal	1.56	1.56	1.55	1.55	1.55	1.55	1.54	1.52	1.53	1.54	1.54
Electricity	13.49	13.47	13.63	13.81	13.96	13.93	14.01	13.93	13.99	14.07	14.03
Energy Consumption 1/ (quadrillion Btu)											
Distillate	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
Other Petroleum 2/	4.60	4.70	4.80	4.85	4.91	4.95	5.01	5.06	5.12	5.18	5.25
Petroleum Subtotal	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 3/	1.44	1.45	1.46	1.48	1.48	1.51	1.57	1.63	1.65	1.64	1.64
Natural Gas Subtotal	10.33	10.45	10.52	10.60	10.72	10.90	11.13	11.33	11.49	11.56	11.70
Metallurgical Coal & Coke 4/	0.63	0.61	0.60	0.59	0.57	0.56	0.55	0.54	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
Coal Subtotal	2.05	2.04	2.03	2.01	2.00	1.99	1.99	1.98	1.97	1.96	1.96
Renewables 5/	2.10	2.16	2.21	2.26	2.30	2.35	2.40	2.44	2.48	2.52	2.56
Purchased 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
Energy Consumption per dollar of Shipments 1/ (thousand Btu per 1996 dollar)											
Distillate	0.18	0.18	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16
Liquefied Petroleum Gas	0.36	0.36	0.35	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.32
Petrochemical Feedstocks	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18
Residual Fuel	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Other Petroleum 2/	0.68	0.67	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.61	0.60

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	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Petroleum Subtotal	1.45	1.44	1.42	1.40	1.38	1.36	1.34	1.33	1.31	1.30	1.28
Natural Gas	1.31	1.29	1.26	1.24	1.23	1.21	1.20	1.19	1.18	1.16	1.15
Lease and Plant Fuel 3/	0.21	0.21	0.20	0.20	0.20	0.19	0.20	0.20	0.20	0.19	0.19
Natural Gas Subtotal	1.52	1.50	1.47	1.44	1.42	1.41	1.40	1.39	1.38	1.36	1.34
Metallurgical Coal & Coke 4/	0.09	0.09	0.08	0.08	0.08	0.07	0.07	0.07	0.06	0.06	0.06
Steam Coal	0.21	0.20	0.20	0.19	0.19	0.19	0.18	0.18	0.17	0.17	0.17
Coal Subtotal	0.30	0.29	0.28	0.27	0.27	0.26	0.25	0.24	0.24	0.23	0.22
Renewables 5/	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.30	0.29
Purchased Electricity	0.58	0.58	0.57	0.56	0.56	0.55	0.55	0.54	0.54	0.53	0.53
Delivered Energy	4.17	4.11	4.05	3.99	3.94	3.88	3.84	3.81	3.76	3.71	3.66
Electricity Related Losses	1.24	1.22	1.20	1.18	1.16	1.15	1.12	1.11	1.09	1.08	1.06
Total	5.41	5.34	5.25	5.17	5.10	5.03	4.96	4.92	4.85	4.79	4.73

Table 6. Industrial Sector Key Indicators and Consumption

	2023	2024	2025	2002- 2025
Value of Shipments (billion 1996 dollars)				
Manufacturing	7190	7399	7636	2.8%
Nonmanufacturing	1798	1825	1855	1.8%
Total	8988	9224	9491	2.6%
Energy Prices (2002 dollars per million Btu)				
Distillate Oil	6.30	6.34	6.40	0.1%
Liquefied Petroleum Gas	10.89	10.95	11.11	1.3%
Residual Oil	4.11	4.14	4.17	0.3%
Motor Gasoline	11.95	12.01	12.03	0.4%
Natural Gas	5.01	5.00	4.99	1.3%
Metallurgical Coal	1.78	1.77	1.77	-0.2%
Steam Coal	1.54	1.53	1.53	0.0%
Electricity	13.92	14.08	14.09	-0.2%
Energy Consumption 1/ (quadrillion Btu)				
Distillate	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%
Other Petroleum 2/	5.30	5.32	5.36	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 3/	1.65	1.68	1.69	1.0%
Natural Gas Subtotal	11.89	12.09	12.27	1.5%
Metallurgical Coal & Coke 4/	0.49	0.49	0.48	-1.3%
Steam Coal	1.46	1.46	1.47	0.0%
Coal Subtotal	1.95	1.95	1.95	-0.4%
Renewables 5/	2.60	2.65	2.70	2.1%
Purchased 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%
Energy Consumption per dollar of Shipments 1/ (thousand Btu per 1996 dollar)				
Distillate	0.16	0.15	0.15	-1.6%
Liquefied Petroleum Gas	0.32	0.31	0.31	-1.3%
Petrochemical Feedstocks	0.18	0.17	0.17	-1.3%
Residual Fuel	0.03	0.02	0.02	-2.0%
Other Petroleum 2/	0.59	0.58	0.56	-1.5%

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	2023	2024	2025	2002- 2025
Petroleum Subtotal	1.26	1.24	1.22	-1.4%
Natural Gas	1.14	1.13	1.11	-1.0%
Lease and Plant Fuel 3/ Natural Gas Subtotal	0.18	0.18	0.18	-1.6%
Metallurgical Coal & Coke 4/ Steam Coal	0.06	0.05	0.05	-3.8%
Coal Subtotal	0.16	0.16	0.15	-2.5%
Coal Subtotal	0.22	0.21	0.21	-2.9%
Renewables 5/ Purchased Electricity	0.29	0.29	0.28	-0.4%
Delivered Energy	0.52	0.52	0.51	-1.0%
Electricity Related Losses	3.61	3.57	3.51	-1.3%
Total	1.05	1.04	1.02	-1.4%
	4.67	4.60	4.54	-1.3%

Table 6. Industrial Sector Key Indicators and Consumption

1/ Fuel consumption 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/ Includes petroleum coke, asphalt, road oil, lubricants, motor gasoline, still gas, and miscellaneous petroleum products.

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

4/ Includes net coke coal imports.

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

Btu = British thermal unit.

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.

Sources: 2001 prices for motor gasoline and distillate are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2001, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html (September 2002). 2002 prices for motor gasoline and distillate are based on: EIA, Petroleum Marketing Annual 2002, http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf (August 2003). 2001 and 2002 coal prices are based on EIA, Quarterly Coal Report, October-December 2002, DOE/EIA-0340(2002/4Q) (Washington, DC), March 2003 and EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E. 2001 and 2002 electricity prices: Annual Energy Review 2002, DOE/EIA-0384(2002) (Washington, DC, October 2003). 2001 and 2002 natural gas prices based on: EIA, Manufacturing Energy Consumption Survey 1998. 2001 and 2002 consumption values based on: Annual Energy Review 2002, DOE/EIA-0384(2002) (Washington, DC, October 2003). 2001 and 2002 shipments: Global Insight macroeconomic model T250803. Projections: EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E.