Table A6. Industrial sector key indicators and consumption

Table A6. Industrial sector key ind	dicators and consumption							
Shipments, prices, and consumption	Reference case							Annual growth
	2011	2012	2020	2025	2030	2035	2040	2012-2040 (percent)
Key indicators								
Value of shipments (billion 2005 dollars)								
Manufacturing	4,370	4,525	5,735	6,467	7,148	7,784	8,443	2.3%
Agriculture, mining, and construction	1,556	1,623	2,226	2,311	2,389	2,457	2,551	1.6%
Total	5,926	6,147	7,960	8,778	9,537	10,241	10,994	2.1%
Energy prices								
(2012 dollars per million Btu)								
Propane	22.63	21.09	20.64	22.06	23.27	24.73	25.84	0.7%
Motor gasoline	23.19	17.52	25.56	27.34	28.51	30.36	32.62	2.2%
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%
Asphalt and road oil	10.13	10.11	10.85	12.26	13.38	14.60	15.80	1.6%
Natural gas heat and power	4.80	3.43	5.59	6.11	6.79	7.58	8.43	3.3%
	5.41	4.16	6.01	6.55	7.21	7.96	8.78	2.7%
Natural gas feedstocks		7.25			9.51	9.93	10.20	1.2%
Metallurgical coal	7.13		8.43	8.95				
Other industrial coal	3.31	3.24	3.59	3.73	3.88	4.03	4.19	0.9%
Coal to liquids		40.50		04.00			04.05	0.00/
Electricity	20.35	19.50	20.77	21.08	21.99	22.91	24.05	0.8%
(nominal dollars per million Btu)								
Propane	22.24	21.09	23.38	27.18	31.32	36.84	42.83	2.6%
Motor gasoline	22.79	17.52	28.95	33.68	38.37	45.22	54.08	4.1%
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%
Asphalt and road oil	9.95	10.11	12.29	15.10	18.02	21.75	26.20	3.5%
Natural gas heat and power	4.72	3.43	6.33	7.53	9.14	11.29	13.98	5.1%
Natural gas feedstocks	5.32	4.16	6.81	8.07	9.70	11.86	14.56	4.6%
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%
Energy consumption (quadrillion Btu) ¹								
Industrial consumption excluding refining								
Propane heat and power	0.13	0.08	0.15	0.16	0.16	0.15	0.15	2.2%
Liquefied petroleum gas and other feedstocks ²	2.12	2.16	2.75	2.89	2.89	2.81	2.75	0.9%
Motor gasoline	0.26	0.26	0.30	0.30	0.30	0.29	0.29	0.4%
Distillate fuel oil	1.24	1.19	1.40	1.41	1.41	1.41	1.42	0.6%
Residual fuel oil	0.13	0.10	0.14	0.14	0.15	0.15	0.15	1.5%
Petrochemical feedstocks	0.88	0.75	1.27	1.52	1.62	1.62	1.59	2.7%
Petroleum coke	0.12	0.15	0.16	0.16	0.16	0.15	0.16	0.1%
Asphalt and road oil	0.86	0.83	1.13	1.16	1.21	1.26	1.32	1.7%
Miscellaneous petroleum ³	0.45	0.56	0.47	0.51	0.54	0.55	0.57	0.0%
Petroleum subtotal	6.18	6.09	7.76	8.25	8.43	8.41	8.41	1.2%
Natural gas heat and power	5.14	5.22	5.79	6.05	6.18	6.26	6.35	0.7%
Natural gas feedstocks	0.53	0.58	0.68	0.71	0.70	0.69	0.68	0.5%
Lease and plant fuel ⁴	1.35	1.45	1.77	1.99	2.16	2.29	2.41	1.8%
Natural gas subtotal	7.03	7.25	8.25	8.74	9.04	9.24	9.43	0.9%
Metallurgical coal and coke ⁵	0.58	0.55	0.58	0.57	0.52	0.46	0.42	-0.9%
Other industrial coal	0.95	0.93	0.99	1.00	1.00	1.00	1.01	0.3%
Coal subtotal	1.52	1.48	1.57	1.57	1.52	1.45	1.44	-0.1%
Renewables ⁶	1.49	1.48	1.74	1.88	2.01	2.13	2.28	1.6%
Purchased electricity	3.18	3.15	3.87	4.11	4.17	4.16	4.18	1.0%
Delivered energy	19.40	19.45	23.18	24.56	25.17	25.39	25.73	1.0%
Electricity related losses	6.64	6.50	7.71	8.06	8.02	7.86	7.80	0.7%
Total	26.04	25.95	30.90	32.61	33.19	33.25	33.53	0.9%
ı Otal	26.04	∠5.95	30.90	32.67	33.19	33.25	33.53	0.9%

Table A6. Industrial sector key indicators and consumption (continued)

Shipments, prices, and consumption	Reference case							
	2011	2012	2020	2025	2030	2035	2040	growth 2012-2040 (percent)
Refining consumption								
Liquefied petroleum gas heat and power	0.00	0.01	0.00	0.00	0.00	0.00	0.00	
Distillate fuel oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Residual fuel oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Petroleum coke	0.53	0.54	0.45	0.41	0.40	0.39	0.40	-1.1%
Still gas	1.40	1.41	1.35	1.29	1.28	1.28	1.30	-0.3%
Miscellaneous petroleum ³	0.01	0.01	0.00	0.00	0.00	0.00	0.00	
Petroleum subtotal	1.95	1.97	1.80	1.70	1.67	1.67	1.69	-0.5%
Natural gas heat and power	1.09	1.19	1.43	1.48	1.47	1.47	1.48	0.8%
Natural gas feedstocks	0.29	0.30	0.36	0.36	0.36	0.36	0.36	0.6%
Natural-gas-to-liquids heat and power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Natural gas subtotal	1.38	1.50	1.79	1.84	1.83	1.83	1.85	0.8%
Other industrial coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Coal-to-liquids heat and power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Coal subtotal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Biofuels heat and coproducts	0.46	0.52	0.76	0.79	0.79	0.79	0.79	1.5%
Purchased electricity	0.20	0.20	0.17	0.17	0.16	0.16	0.16	-0.7%
Delivered energy	4.00	4.18	4.52	4.49	4.45	4.45	4.49	0.3%
Electricity related losses	0.42	0.40	0.34	0.32	0.31	0.30	0.30	-1.0%
Total	4.42	4.59	4.86	4.82	4.76	4.76	4.79	0.2%
Total industrial sector consumption								
Liquefied petroleum gas heat and power	0.13	0.09	0.15	0.16	0.16	0.15	0.15	1.9%
Liquefied petroleum gas and other feedstocks ²	2.12	2.16	2.75	2.89	2.89	2.81	2.75	0.9%
Motor gasoline	0.26	0.26	0.30	0.30	0.30	0.29	0.29	0.4%
Distillate fuel oil	1.24	1.20	1.40	1.41	1.41	1.41	1.42	0.6%
Residual fuel oil	0.13	0.10	0.14	0.14	0.15	0.15	0.15	1.4%
Petrochemical feedstocks	0.88	0.75	1.27	1.52	1.62	1.62	1.59	2.7%
Petroleum coke	0.65	0.69	0.61	0.57	0.56	0.55	0.56	-0.8%
Asphalt and road oil	0.86	0.83	1.13	1.16	1.21	1.26	1.32	1.7%
Still gas	1.40	1.41	1.35	1.29	1.28	1.28	1.30	-0.3%
Miscellaneous petroleum ³	0.46	0.57	0.47	0.51	0.54	0.55	0.57	0.0%
Petroleum subtotal	8.13	8.06	9.56	9.95	10.10	10.08	10.10	0.8%
Natural gas heat and power	6.24	6.41	7.23	7.52	7.65	7.74	7.83	0.7%
Natural gas feedstocks	0.82	0.88	1.04	1.07	1.06	1.05	1.04	0.6%
Natural-gas-to-liquids heat and power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Lease and plant fuel ⁴	1.35	1.45	1.77	1.99	2.16	2.29	2.41	1.8%
Natural gas subtotal	8.41	8.75	10.04	10.58	10.87	11.07	11.28	0.9%
Metallurgical coal and coke ⁵	0.58	0.55	0.58	0.57	0.52	0.46	0.42	-0.9%
Other industrial coal	0.95	0.93	0.99	1.00	1.00	1.00	1.01	0.3%
Coal-to-liquids heat and power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
Coal subtotal	1.53	1.48	1.57	1.57	1.52	1.45	1.44	-0.1%
Biofuels heat and coproducts	0.46	0.52	0.76	0.79	0.79	0.79	0.79	1.5%
Renewables ⁶	1.49	1.48	1.74	1.88	2.01	2.13	2.28	1.6%
Purchased electricity	3.38	3.35	4.04	4.27	4.33	4.32	4.34	0.9%
Delivered energy	23.40	23.63	27.71	29.05	29.62	29.84	30.22	0.9%
Electricity related losses	7.06	6.91	8.05	8.38	8.33	8.16	8.10	0.6%
Total	30.46	30.54	35.76	37.43	37.94	38.00	38.33	0.8%

Table A6. Industrial sector key indicators and consumption (continued)

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Key indicators and consumption	Reference case							
	2011	2012	2020	2025	2030	2035	2040	2012-2040 (percent)
Energy consumption per dollar of								
shipments (thousand Btu per 2005 dollar)								
Liquid fuels and other petroleum	1.37	1.31	1.20	1.13	1.06	0.98	0.92	-1.3%
Natural gas	1.42	1.42	1.26	1.21	1.14	1.08	1.03	-1.2%
Coal	0.26	0.24	0.20	0.18	0.16	0.14	0.13	-2.2%
Renewable fuels ⁵	0.33	0.33	0.31	0.30	0.29	0.29	0.28	-0.5%
Purchased electricity	0.57	0.54	0.51	0.49	0.45	0.42	0.40	-1.1%
Delivered energy	3.95	3.84	3.48	3.31	3.11	2.91	2.75	-1.2%
Industrial combined heat and power ¹								
Capacity (gigawatts)	25.51	26.95	31.11	34.21	38.48	43.27	46.16	1.9%
Generation (billion kilowatthours)	140.20	143.79	169.54	185.50	207.81	233.21	249.22	2.0%

¹Includes combined heat and power plants that have a regulatory status, and small on-site generating systems. ²Includes ethane, natural gasoline, and olefins. ³Includes lubricants and miscellaneous petroleum products.

Note: Totals may not equal sum of components due to independent rounding. Data for 2011 and 2012 are model local sum of components due to independent rounding. Data for 2011 and 2012 are model local local

Represents natural gas used in well, field, and lease operations, in natural gas processing plant machinery, and for liquefaction in export facilities.
Includes net coal coke imports.
Includes consumption of energy produced from hydroelectric, wood and wood waste, municipal waste, and other biomass sources.
Btu = British thermal unit.

⁻⁻⁼ Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2011 and 2012 are model results and may differ from official EIA data