

Appendix A: Carbon Dioxide Equivalents and Global Warming Potential

The following explanation of the concepts of carbon dioxide equivalents and global warming potential is taken directly from the U.S. Energy Information Agency.¹³⁰

Global warming potentials (GWPs) are used to compare the abilities of different greenhouse gases to trap heat in the atmosphere. GWPs are based on the radiative efficiency (heat-absorbing ability) of each gas relative to that of carbon dioxide (CO₂), as well as the decay rate of each gas (the amount removed from the atmosphere over a given number of years) relative to that of CO₂. The GWP provides a construct for converting emissions of various gases into a common measure, which allows climate analysts to aggregate the radiative impacts of various greenhouse gases into a uniform measure denominated in carbon or carbon dioxide equivalents. The table at the right compares the GWPs published in the Second and Third Assessment Reports of the Intergovernmental Panel on Climate Change (IPCC).

In compiling its greenhouse gas emission estimates, EIA attempts to employ the most current data sources. For that reason, and because the IPCC is generally considered the authoritative source for GWPs, the GWP values from the IPCC's Third Assessment Report are used in this report. It is important to point out, however, that countries reporting to the United Nations Framework Convention on Climate Change (UNFCCC), including the United States, have been compiling estimates based on the GWPs from the IPCC's Second Assessment Report. The UNFCCC Guidelines on Reporting and Review, adopted before the publication of the Third Assessment Report, require emission estimates to be based on the GWPs in the IPCC Second Assessment Report. This will probably continue in the short term, until the UNFCCC reporting rules are changed. Following the current rules, the U.S. Environmental Protection Agency (EPA), which compiles the official U.S. emissions inventory for submission to the UNFCCC, intends to present estimates based on the GWPs published in the Second Assessment Report in its report, *Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2002*, scheduled for release in April 2004.

The table below shows U.S. carbon dioxide equivalent greenhouse gas emissions calculated using the IPCC's 1996 (Second Assessment Report) and 2001 (Third Assessment Report) GWPs. The estimate for total U.S. emissions in 2002 is 0.6 percent higher when the revised GWPs are used. The estimates for earlier years generally follow the same pattern. Using the 2001

¹³⁰ http://www.eia.doe.gov/oiaf/1605/archive/gg03rpt/summary/special_topics.html

GWPs, estimates of carbon dioxide equivalent methane emissions are 9.5 percent higher, and carbon-equivalent nitrous oxide emissions are 4.5 percent lower. Carbon dioxide equivalent emissions of HFCs, PFCs, and SF₆ are lower for some years and higher for others, depending on the relative shares of the three gases.

**Comparison of 100-Year GWP Estimates from the IPCC's
Second (1996) and Third (2001) Assessment Reports**

Gas	1996 IPCC GWP	2001 IPCC GWP
Methane	21	23
Nitrous Oxide	310	296
HFC-23	11,700	12,000
HFC-125	2,800	3,400
HFC-134a	1,300	1,300
HFC-143a	3,800	4,300
HFC-152a	140	120
HFC-227ea	2,900	3,500
HFC-236fa	6,300	9,400
Perfluoromethane (CF ₄)	6,500	5,700
Perfluoroethane (C ₂ F ₆)	9,200	11,900
Sulfur Hexafluoride (SF ₆)	23,900	22,200

APPENDIX B: EMISSIONS DATA

Table 14-1 CO₂ Emissions from Fossil Fuel Combustion by Fuel Type and Sector (Tg CO₂ Eq.)

Fuel/Sector	2000	2001	2002	2003	2004	2005	2006
Coal	2,053.20	1,996.30	2,002.80	2,043.10	2,058.40	2,094.10	2,065.30
Residential	1	1	1.1	1.2	1.2	0.9	0.6
Commercial	8.2	8.4	8.4	7.9	9.7	9.2	6.2
Industrial	133.5	133.5	123.4	124	126.2	122	122
Transportation	NE	NE	NE	NE	NE	NE	NE
Electricity Generation	1,909.60	1,852.30	1,868.30	1,906.20	1,917.60	1,958.40	1,932.40
U.S. Territories	0.9	1	1.7	3.8	3.6	3.7	4.1
Natural Gas	1,220.50	1,175.30	1,227.60	1,200.30	1,180.10	1,173.90	1,155.10
Residential	270.6	260.3	265	277.5	264.5	262.7	237.5
Commercial	172.7	165.1	171	176.7	170	163.2	154.1
Industrial	460	425	447.2	433	415.5	394.5	389.3
Transportation	35.7	34.1	37.2	33.4	32	33.2	33.2
Electricity Generation	280.9	289.6	306	278.3	296.8	319.1	339.6
U.S. Territories	0.7	1.2	1.2	1.4	1.3	1.3	1.4
Petroleum	2,303.00	2,335.50	2,334.00	2,373.30	2,442.50	2,462.70	2,417.10
Residential	100.5	102.2	94.4	104.2	102.5	95	88.5
Commercial	47.2	48.8	43.4	51.8	50.9	49.6	49.8
Industrial	266.8	294	284.3	299.1	316	330.9	350.9
Transportation	1,762.50	1,741.60	1,791.70	1,774.20	1,824.40	1,836.70	1,822.80
Electricity Generation	91.5	102	79.1	98.1	100.1	102.3	55.7
U.S. Territories	34.6	46.8	41.1	45.8	48.6	48.2	49.4
Geothermal*	0.36	0.35	0.37	0.37	0.38	0.38	0.38
Total	5,577.10	5,507.40	5,564.80	5,617.00	5,681.40	5,731.00	5,637.90
NE (Not estimated)							
NO (Not occurring)							
* Although not technically a fossil fuel							
Note: Totals may not sum due to independent rounding.							

Table 14-2 CH₄ Emissions from Stationary Combustion (Tg CO₂ Eq.)

Sector/Fuel Type	2000	2001	2002	2003	2004	2005	2006
Electric Power	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Coal	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Fuel Oil	0.1	0.1	0.1	0.1	0.1	0.1	+
Natural gas	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Wood	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Industrial	1.6	1.5	1.4	1.4	1.5	1.5	1.5
Coal	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Fuel Oil	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Natural gas	0.2	0.2	0.2	0.2	0.2	0.2	0.1
Wood	1	0.9	0.8	0.8	0.9	0.9	0.9
Commercial/Institutional	0.9	0.9	0.9	0.9	0.9	0.9	0.8
Coal	+	+	+	+	+	+	+
Fuel Oil	0.1	0.1	0.1	0.2	0.1	0.1	0.1
Natural gas	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Wood	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Residential	3.4	3.1	3.1	3.3	3.3	3.3	3.1
Coal	0.1	0.1	0.1	0.1	0.1	0.1	+
Fuel Oil	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Natural Gas	0.5	0.5	0.5	0.5	0.5	0.5	0.4
Wood	2.5	2.2	2.3	2.4	2.5	2.5	2.3
U.S. Territories	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Coal	+	+	+	+	+	+	+
Fuel Oil	+	0.1	0.1	0.1	0.1	0.1	0.1
Natural Gas	+	+	+	+	+	+	+
Wood	+	+	+	+	+	+	+
Total	6.6	6.2	6.2	6.4	6.5	6.5	6.2

+ Does not exceed 0.05 Tg CO₂ Eq.

Note: Totals may not sum due to independent rounding.

Table 14-3 N₂O Emissions from Stationary Combustion (Tg CO₂ Eq.)

Sector/Fuel Type	2000	2001	2002	2003	2004	2005	2006
Electric Power	10	9.7	9.7	10	10	10.3	10.1
Coal	9.4	9.1	9.2	9.4	9.5	9.7	9.5
Fuel Oil	0.2	0.2	0.2	0.2	0.2	0.2	0.1
Natural Gas	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Wood	0.2	0.1	0.2	0.2	0.2	0.2	0.2
Industrial	3.3	3.1	3	3	3.1	3.1	3.2
Coal	0.7	0.7	0.6	0.6	0.6	0.6	0.6
Fuel Oil	0.5	0.5	0.5	0.5	0.5	0.6	0.6
Natural Gas	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Wood	1.9	1.7	1.6	1.6	1.7	1.7	1.7
Commercial/Institutional	0.3	0.3	0.3	0.4	0.4	0.3	0.3
Coal	+	+	+	+	+	+	+
Fuel Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Natural Gas	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Wood	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Residential	0.9	0.9	0.9	0.9	0.9	0.9	0.8
Coal	+	+	+	+	+	+	+
Fuel Oil	0.3	0.3	0.3	0.3	0.3	0.3	0.2
Natural Gas	0.2	0.1	0.1	0.2	0.1	0.1	0.1
Wood	0.5	0.4	0.4	0.5	0.5	0.5	0.5
U.S. Territories	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Coal	+	+	+	+	+	+	+
Fuel Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Natural Gas	+	+	+	+	+	+	+
Wood	+	+	+	+	+	+	+
Total	14.6	14.1	14	14.3	14.6	14.8	14.5
+ Does not exceed 0.05 Tg CO ₂ Eq.							
Note: Totals may not sum due to independent rounding.							

Table 14-4 CO₂ Emissions From Fossil Fuel Combustion

State Sector	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Alabama																
Commercial	109.94	113.94	120.74	125.52	122.78	130.36	135.83	133.74	131.34	133.54	139.58	131.47	136.98	136.54	140.17	141.10
Industrial	2.34	1.92	2.02	1.94	1.95	1.86	2.05	2.30	1.81	2.01	2.06	2.01	1.91	1.92	2.08	1.79
Residential	26.04	26.10	29.20	27.77	27.92	28.56	28.90	28.94	25.78	25.95	25.33	22.24	22.58	23.14	24.26	22.50
Transportation	3.16	3.08	3.26	3.50	3.38	3.39	3.80	3.42	3.18	3.44	3.78	3.64	3.42	3.07	3.10	2.75
Electric Power	28.11	28.67	29.32	29.50	30.72	32.15	31.49	31.11	31.65	32.08	33.51	31.42	33.46	32.07	34.89	34.60
Alaska																
Commercial	50.28	54.17	56.93	62.82	58.81	64.41	69.58	67.97	68.93	70.06	74.90	72.17	75.61	76.33	75.84	79.45
Industrial	34.18	34.80	36.21	36.05	35.85	40.38	41.31	41.36	42.32	42.87	38.13	42.56	42.90	42.90	46.18	47.12
Residential	2.17	2.20	2.48	2.54	2.57	2.48	2.69	2.55	2.65	2.80	2.30	2.46	2.05	1.92	2.19	2.09
Transportation	15.75	17.37	18.85	18.45	17.98	21.36	22.43	21.06	21.54	20.47	15.74	20.51	21.17	20.87	20.13	21.30
Electric Power	1.59	1.61	1.74	1.74	1.77	1.81	1.80	1.70	1.65	1.96	1.52	1.81	1.64	1.66	1.82	1.78
Arizona																
Commercial	12.07	11.15	10.84	11.00	11.18	12.31	11.85	13.30	13.55	14.61	15.40	14.51	14.79	15.46	16.86	18.71
Industrial	2.61	2.47	2.29	2.32	2.34	2.41	2.54	2.75	2.92	3.03	3.17	3.26	3.28	2.99	3.17	3.24
Residential	62.87	63.68	66.44	68.95	71.70	66.56	68.60	71.73	76.10	80.25	85.91	88.03	87.48	88.92	96.05	97.17
Transportation	1.88	1.81	1.75	1.72	1.80	1.76	1.85	1.96	2.25	2.16	2.15	2.05	2.16	1.98	1.93	1.96
Electric Power	3.84	3.90	3.91	3.93	4.33	4.66	5.10	5.24	4.97	5.06	5.02	4.90	4.38	4.09	4.62	5.07
Arkansas																
Commercial	1.84	1.90	1.77	1.73	1.81	1.71	1.67	1.85	2.16	2.10	2.15	2.21	2.21	2.14	2.20	2.11
Industrial	22.79	23.31	23.64	24.99	25.73	26.13	27.68	27.69	29.83	31.53	32.34	33.37	34.20	35.05	36.07	37.68
Residential	32.52	32.76	35.37	36.58	38.02	32.30	32.29	35.00	36.87	39.39	44.25	45.50	44.53	45.66	51.23	50.35
Transportation	51.23	50.30	51.93	51.14	55.07	58.36	61.82	60.88	61.57	63.61	63.96	62.87	61.88	62.33	63.21	60.54
Electric Power	1.60	1.61	1.57	1.79	1.73	1.78	1.88	1.77	1.74	1.75	2.07	2.10	2.16	2.18	1.99	2.10
California																
Commercial	18.78	18.89	17.26	15.34	16.74	16.83	14.60	15.21	17.55	14.71	14.18	14.72	13.68	13.73	13.67	13.92
Industrial	71.91	72.99	73.35	70.79	71.09	69.89	72.51	77.43	74.89	72.85	72.57	74.79	75.22	76.25	80.31	77.17
Residential	29.59	29.40	27.30	28.89	29.46	26.85	27.03	26.81	32.38	32.04	27.63	28.70	27.85	28.55	29.64	28.21
Transportation	203.70	192.56	192.13	189.31	197.85	201.67	204.75	199.11	193.68	204.47	215.57	211.31	223.24	230.10	222.98	229.33
Electric Power	40.34	37.98	45.54	42.00	49.43	37.09	32.77	35.75	39.29	43.22	52.82	57.74	43.65	42.63	46.36	42.00
Colorado																
Commercial	66.71	67.90	68.89	72.87	73.38	73.30	76.22	76.40	77.66	79.75	84.51	92.42	90.58	89.32	91.98	94.34
Industrial	3.98	4.28	4.11	4.27	4.06	4.03	4.23	4.21	3.80	3.83	3.79	4.40	4.32	4.13	3.94	4.06
Residential	7.03	7.94	8.17	8.89	8.38	8.24	8.50	8.84	9.30	9.09	9.64	13.01	12.43	11.81	12.10	13.22
Transportation	5.32	5.79	5.54	6.12	5.71	6.14	6.48	6.30	5.97	6.42	6.85	7.28	7.53	7.56	7.13	7.58
Electric Power	19.11	19.28	19.51	21.46	21.75	22.39	22.81	22.65	23.75	25.32	25.59	26.89	26.71	26.10	29.04	29.37
Connecticut																
Commercial	31.27	30.60	31.55	32.13	33.47	32.50	34.20	34.40	34.83	35.09	38.64	40.84	39.60	39.73	39.78	40.10
Industrial	40.98	40.17	40.46	38.58	37.91	37.12	40.31	43.38	41.03	42.31	43.52	41.70	40.17	42.30	44.45	43.30
Residential	3.76	3.58	4.22	3.76	4.10	3.76	4.04	4.20	3.92	4.19	4.44	4.20	4.04	4.72	3.75	3.66
Transportation	8.11	7.86	9.33	8.90	8.51	7.82	8.30	8.06	7.03	7.92	8.66	8.40	8.16	9.48	10.12	9.28
Electric Power	14.67	14.55	14.61	14.75	14.69	14.38	15.16	15.20	15.41	16.68	16.17	16.89	16.81	17.30	19.18	17.60
Delaware																
Commercial	18.23	18.22	18.07	19.57	18.90	17.88	18.55	17.29	16.51	16.72	16.98	16.41	16.27	16.91	16.95	17.75
Industrial	0.56	0.55	0.53	0.67	0.59	0.54	0.69	0.66	0.57	0.60	0.60	0.65	0.71	0.77	0.74	0.70
Residential	4.52	3.66	4.85	5.21	5.31	5.14	5.14	5.06	4.73	5.02	4.83	4.71	4.33	4.18	4.08	4.27
Transportation	1.08	1.10	1.17	1.19	1.24	1.19	1.29	1.15	1.09	1.15	1.23	1.19	1.21	1.30	1.26	1.21
Electric Power	4.54	5.10	4.70	4.93	4.59	4.33	4.82	4.70	4.72	4.92	5.11	4.73	4.95	4.84	4.96	5.24
	7.53	7.81	6.82	7.58	7.17	6.68	6.62	5.72	5.41	5.03	5.21	5.14	5.07	5.82	5.91	6.32

District of Columbia	4.46	4.39	4.37	4.56	4.53	4.44	4.39	4.36	4.31	4.16	4.30	4.09	4.18	3.91	4.01	3.94
Commercial	1.24	1.37	1.37	1.44	1.42	1.43	1.43	1.39	1.25	1.22	1.34	1.37	1.32	1.19	1.27	1.33
Industrial	0.04	0.03	0.03	0.02	0.04	0.03	0.03	0.03	0.02	0.07	0.03	0.06	0.07	0.10	0.07	0.06
Residential	0.92	0.93	0.99	0.98	0.93	0.96	1.06	0.96	0.83	0.86	0.94	0.80	0.92	0.98	0.95	0.93
Transportation	1.83	1.83	1.85	1.88	1.73	1.87	1.87	1.87	1.94	1.87	1.83	1.69	1.60	1.55	1.66	1.39
Electric Power	0.43	0.24	0.12	0.23	0.32	0.23	0.14	0.09	0.27	0.26	0.18	0.16	0.26	0.08	0.06	0.23
Florida	188.16	188.92	191.26	195.08	202.59	207.29	213.77	219.38	231.99	231.16	239.37	236.95	240.14	244.16	256.35	260.74
Commercial	5.69	5.39	5.36	4.16	3.79	3.85	3.67	3.15	3.01	3.09	4.27	4.45	4.48	4.52	5.13	5.36
Industrial	12.80	11.97	13.65	14.89	15.69	16.69	18.03	17.25	17.58	17.61	16.59	14.54	13.13	14.17	13.24	13.57
Residential	2.07	2.13	2.30	2.20	2.07	1.91	2.08	1.79	1.92	1.89	1.98	1.82	1.79	1.88	2.14	1.96
Transportation	81.52	77.12	79.78	79.26	84.76	86.69	87.28	90.44	91.77	94.67	100.39	98.91	101.21	99.23	110.74	114.08
Electric Power	86.08	92.32	90.18	94.57	96.29	97.95	102.71	106.74	117.70	113.89	116.15	117.24	119.53	124.36	125.10	125.76
Georgia	138.84	131.53	131.24	141.16	144.34	152.49	156.36	157.43	157.52	159.97	167.99	160.36	165.20	168.13	174.09	184.00
Commercial	3.77	3.52	3.85	3.91	3.80	4.02	4.03	3.95	3.57	3.16	4.01	3.67	3.27	3.37	3.71	3.51
Industrial	19.18	19.37	19.77	19.28	20.04	20.92	21.20	20.75	19.32	19.18	20.10	19.48	19.59	20.51	20.90	20.61
Residential	6.87	6.23	6.95	7.42	6.82	7.29	7.94	7.33	6.82	7.43	7.69	7.43	7.69	8.05	7.94	7.57
Transportation	48.57	47.32	47.79	53.21	53.91	56.35	59.51	57.20	59.15	61.23	61.31	61.19	61.35	62.84	66.14	69.18
Electric Power	61.45	55.06	52.88	57.33	59.77	63.91	63.67	68.20	68.66	69.96	73.79	68.58	73.32	73.37	75.41	83.14
Hawaii	21.50	19.50	20.90	18.73	20.06	20.01	19.02	18.59	18.57	18.28	18.57	19.04	20.38	21.39	22.32	23.05
Commercial	0.75	0.42	0.83	0.32	0.51	0.31	0.28	0.28	1.06	0.23	0.22	0.18	0.25	0.23	0.28	0.28
Industrial	1.89	1.83	1.80	1.72	1.91	1.96	2.05	1.95	1.44	1.25	1.24	1.23	1.28	1.36	1.34	1.62
Residential	0.06	0.06	0.13	0.05	0.05	0.05	0.05	0.07	0.16	0.10	0.13	0.13	0.13	0.11	0.11	0.11
Transportation	11.17	10.92	10.45	9.42	10.12	9.95	8.67	8.34	8.14	8.83	9.00	9.52	10.17	11.70	12.32	12.81
Electric Power	7.63	6.28	7.24	7.23	7.47	7.74	8.02	7.95	7.78	7.87	7.99	7.98	8.55	7.98	8.28	8.23
Idaho	11.36	12.02	11.31	12.47	12.63	13.38	13.82	13.82	14.05	14.92	15.61	15.55	14.96	14.26	15.56	15.83
Commercial	0.79	0.94	0.86	0.83	0.82	0.83	0.96	0.86	0.94	1.05	1.02	0.99	0.95	0.83	0.94	0.95
Industrial	3.44	3.99	3.34	3.46	3.55	3.76	3.83	3.61	3.64	3.65	4.16	3.95	3.72	3.38	3.78	3.95
Residential	0.80	0.91	0.82	1.01	0.95	1.00	1.10	1.12	1.10	1.37	1.95	1.47	1.43	1.31	1.55	1.98
Transportation	6.33	6.18	6.31	7.17	7.32	7.79	7.92	8.13	8.28	8.74	8.78	8.57	8.71	8.23	8.64	8.73
Electric Power	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.10	0.10	0.10	0.10	0.57	0.14	0.51	0.65	0.62
Illinois	194.33	195.14	191.29	207.57	207.44	211.26	224.20	228.46	217.47	226.85	234.17	224.68	227.82	228.60	236.03	242.81
Commercial	12.51	11.97	12.20	12.54	12.27	12.48	13.30	12.88	11.02	11.55	12.36	11.75	12.59	12.64	12.00	11.91
Industrial	46.52	46.74	46.77	47.23	47.96	47.98	48.23	49.66	46.87	46.43	44.36	40.18	39.92	38.47	38.54	39.10
Residential	25.43	26.76	27.04	28.14	26.93	28.38	30.69	28.54	23.51	26.08	26.82	24.26	26.57	26.38	24.72	24.70
Transportation	54.21	51.93	52.88	55.99	54.14	55.51	57.43	57.75	58.83	65.04	66.74	64.46	62.35	64.68	68.80	75.87
Electric Power	56.66	57.74	52.59	63.67	66.15	66.90	74.55	79.63	77.23	77.74	83.89	84.03	86.39	86.43	91.98	91.33
Indiana	205.29	202.05	199.51	204.39	202.89	207.93	212.71	218.17	216.38	221.99	234.54	224.05	225.49	230.83	233.36	231.59
Commercial	5.47	5.30	5.49	5.76	5.59	5.68	6.04	5.87	5.53	5.49	6.27	5.65	5.62	6.47	6.48	5.46
Industrial	54.60	52.42	51.69	49.97	44.28	46.37	48.74	50.39	49.80	50.94	54.13	54.35	53.05	53.78	56.37	52.59
Residential	9.58	9.78	10.00	10.79	10.24	10.29	11.62	10.96	9.05	10.28	10.54	9.38	9.58	10.48	9.78	9.43
Transportation	40.74	39.68	39.07	41.18	42.76	43.82	42.96	43.02	43.39	44.31	45.33	42.35	45.58	46.71	44.87	45.26
Electric Power	94.91	94.87	93.25	96.69	100.02	101.77	103.34	107.93	108.59	110.97	117.27	112.32	111.67	113.40	115.85	118.84
Iowa	63.95	65.92	64.50	68.40	69.54	72.90	75.67	75.24	77.34	78.40	78.37	78.20	78.88	76.33	80.20	79.67
Commercial	3.22	3.55	3.17	3.36	2.97	3.21	3.81	3.91	3.41	3.83	3.71	3.57	3.71	3.85	3.54	3.54
Industrial	12.87	13.75	14.24	14.79	15.61	15.97	16.28	16.06	16.12	16.38	16.09	15.64	15.57	14.59	15.68	15.63
Residential	4.95	5.46	5.13	5.73	5.48	5.66	6.31	5.90	4.96	5.41	5.43	4.82	5.17	5.27	4.77	4.72
Transportation	16.26	15.67	15.45	16.14	17.12	17.74	18.99	18.50	19.11	18.99	19.67	18.55	19.13	19.16	20.38	20.59
Electric Power	26.65	27.50	26.51	28.38	28.37	30.32	30.28	30.87	33.73	33.79	35.56	35.62	35.30	35.46	35.93	35.20

Kansas	69.58	68.38	65.84	72.29	72.56	70.24	75.51	72.28	70.34	73.28	75.36	71.32	75.56	76.30	76.41	72.46
Commercial	3.23	3.39	3.13	3.33	3.10	3.23	3.53	2.55	2.57	2.43	2.56	2.45	2.44	2.50	2.40	1.82
Industrial	15.93	15.47	16.35	16.25	18.18	14.72	14.95	15.88	14.21	14.10	14.23	12.89	13.59	14.56	14.26	12.40
Residential	4.06	4.32	4.01	4.72	4.19	4.39	5.00	4.25	4.29	4.51	4.38	4.19	4.28	4.45	4.11	3.99
Transportation	19.24	17.96	17.71	18.07	17.13	18.99	18.83	18.65	18.67	19.77	18.73	17.47	17.78	19.47	19.04	17.86
Electric Power	27.11	27.24	24.63	29.92	29.96	28.92	33.20	30.95	30.59	32.47	36.47	34.32	37.48	37.32	36.61	36.40
Kentucky	118.90	120.67	124.34	135.10	133.11	138.10	140.84	145.47	143.06	147.31	147.51	146.87	147.49	143.42	150.05	152.15
Commercial	2.63	2.77	2.97	3.03	3.15	3.13	3.20	3.41	2.89	3.44	3.17	2.98	3.04	2.94	3.02	3.04
Industrial	19.84	20.06	21.16	21.92	21.80	23.14	25.10	24.50	23.75	23.46	22.18	20.96	20.68	19.95	21.81	21.56
Residential	4.03	4.32	4.50	4.86	4.62	4.88	5.09	4.93	4.13	4.57	4.60	3.91	4.00	4.26	3.93	3.86
Transportation	26.31	26.29	27.44	28.86	28.65	31.33	30.12	32.83	30.10	31.22	31.33	31.19	32.83	31.19	33.52	33.52
Electric Power	66.09	67.23	68.27	76.43	74.89	82.51	79.59	80.51	82.19	84.61	86.22	87.22	86.94	85.09	87.08	90.18
Louisiana	191.76	188.62	195.12	197.99	203.75	204.30	203.27	209.57	196.00	194.23	211.09	194.47	203.75	193.97	198.16	191.56
Commercial	1.87	1.90	1.91	1.75	1.70	1.47	1.53	1.72	1.57	1.69	2.49	1.90	1.96	2.39	2.13	2.02
Industrial	102.84	97.00	101.87	103.21	105.34	105.40	103.20	108.23	94.72	93.02	101.46	96.82	102.57	95.76	99.10	93.66
Residential	3.13	3.23	3.30	3.27	3.08	3.03	3.32	3.41	3.03	2.95	3.33	3.15	3.08	2.83	2.66	2.52
Transportation	49.29	51.80	51.95	51.89	54.45	54.37	59.50	56.69	55.51	55.40	61.25	53.36	54.79	54.08	53.47	50.55
Electric Power	34.62	34.69	36.09	37.87	39.18	40.03	35.72	39.52	41.17	41.17	42.57	39.24	41.34	38.92	40.90	42.82
Maine	19.10	18.61	19.40	18.99	20.42	19.05	19.71	19.99	19.64	20.68	22.53	23.47	22.97	23.47	23.30	22.93
Commercial	2.18	2.16	1.73	1.68	1.71	1.41	1.55	1.55	1.60	1.78	1.48	1.45	1.79	2.16	2.10	1.92
Industrial	3.47	4.11	5.48	5.20	6.48	5.07	6.39	4.77	4.06	3.77	4.66	3.63	3.01	2.50	2.77	3.05
Residential	3.03	3.04	3.05	3.18	3.26	4.00	4.13	3.97	4.28	4.07	3.95	3.96	3.53	4.07	5.22	4.75
Transportation	8.27	7.57	7.45	7.60	7.73	7.30	7.53	7.90	7.71	7.98	8.57	7.65	8.75	9.27	8.67	9.39
Electric Power	2.14	1.73	1.70	1.34	1.24	1.27	1.12	1.80	1.99	3.38	3.57	5.74	5.89	4.79	4.53	3.83
Maryland	70.85	69.80	67.79	70.15	71.29	70.62	72.76	72.97	75.63	78.51	78.06	77.77	77.56	80.09	81.46	83.91
Commercial	2.88	3.47	3.96	3.82	4.20	4.69	4.18	4.11	4.59	4.43	4.61	4.75	4.73	5.14	5.03	4.89
Industrial	11.86	10.19	7.47	7.31	7.37	7.05	7.72	7.96	7.41	7.45	7.09	7.84	7.52	7.15	7.83	7.75
Residential	6.21	6.28	6.74	7.10	7.05	6.94	7.82	7.06	6.30	6.70	7.21	6.51	6.74	7.41	7.16	7.22
Transportation	23.63	23.98	24.54	24.51	28.14	24.79	25.40	26.14	26.91	28.39	28.57	28.72	28.28	29.19	31.01	32.33
Electric Power	26.26	25.89	25.08	27.40	28.17	27.14	27.64	27.67	30.43	31.54	30.58	29.94	30.29	31.20	30.42	31.71
Massachusetts	83.92	82.65	84.55	81.86	82.08	79.19	80.26	86.51	84.39	81.88	82.93	82.23	83.32	84.36	83.21	84.83
Commercial	8.40	9.18	8.93	7.96	8.85	8.94	9.02	9.41	8.02	6.14	6.69	5.67	5.86	7.00	6.56	6.59
Industrial	5.96	5.33	7.15	7.33	6.38	5.61	6.06	6.24	6.16	6.79	6.54	7.16	7.11	4.81	4.66	4.84
Residential	15.01	14.23	16.31	16.43	16.27	14.69	14.50	14.33	13.15	13.96	15.53	15.87	15.88	16.18	14.97	14.80
Transportation	28.91	27.62	27.42	27.86	28.05	28.46	29.75	30.16	30.12	30.94	32.04	31.60	31.72	31.50	33.41	34.27
Electric Power	25.64	26.29	24.75	22.27	22.53	21.50	20.94	26.38	26.94	24.04	22.12	21.93	22.75	24.87	23.61	24.33
Michigan	182.07	180.98	179.88	181.06	188.71	191.40	196.98	195.10	191.92	199.69	194.85	188.96	187.39	184.24	187.21	189.58
Commercial	10.77	10.93	11.15	11.33	11.63	12.30	12.86	12.29	10.49	11.05	11.48	10.90	10.97	11.13	10.73	10.91
Industrial	34.36	31.76	32.23	28.22	30.53	30.91	31.70	30.60	28.78	31.91	30.17	26.77	24.92	24.65	25.40	25.19
Residential	21.89	22.32	23.27	24.12	23.61	24.59	26.16	24.97	21.19	23.36	24.11	23.16	23.92	24.85	23.15	23.44
Transportation	47.85	48.50	48.95	52.18	52.24	53.56	54.13	55.22	56.47	59.04	57.12	56.49	57.57	54.99	56.04	56.72
Electric Power	67.19	67.47	64.29	65.22	70.69	70.04	72.12	72.02	74.98	74.34	71.98	71.63	70.01	68.62	71.90	74.32
Minnesota	79.47	79.49	80.79	85.63	87.24	89.82	94.55	92.29	91.34	92.12	97.31	94.27	96.61	100.50	99.99	100.65
Commercial	5.70	5.47	5.06	5.34	5.49	5.94	6.32	6.20	5.49	5.46	5.84	5.85	6.40	6.45	5.97	6.07
Industrial	12.41	11.96	13.24	13.78	14.10	14.42	16.03	15.32	15.22	14.69	14.99	13.54	13.74	13.86	14.34	14.50
Residential	8.03	8.80	8.37	9.03	8.93	9.33	10.57	9.53	7.96	8.45	9.21	8.83	9.25	9.73	9.31	8.90
Transportation	23.73	24.81	26.06	27.68	28.63	29.60	30.51	29.93	31.41	33.56	34.82	34.02	34.57	34.40	35.80	35.98
Electric Power	29.61	28.44	28.07	29.80	30.09	30.53	31.12	31.31	31.24	29.96	32.45	32.01	32.66	36.06	34.57	35.19

Mississippi	48.45	48.37	48.42	50.93	50.63	51.87	54.62	56.14	56.81	61.43	61.09	69.47	62.60	62.77	65.42	63.56
Commercial	1.28	1.27	1.30	1.27	1.36	1.31	1.50	1.47	1.45	1.35	1.49	1.52	1.46	1.50	1.43	1.37
Industrial	11.88	11.16	11.55	10.99	10.27	10.11	10.49	10.36	9.45	11.81	11.05	10.89	11.19	10.45	11.63	10.62
Residential	1.87	1.84	1.88	2.05	1.96	1.91	2.20	2.04	1.86	1.90	2.42	2.47	2.19	1.93	1.85	1.77
Transportation	20.20	22.06	21.90	23.08	23.16	23.32	23.50	24.28	24.51	25.87	25.15	24.39	24.97	26.17	25.74	25.20
Electric Power	13.22	12.04	10.78	13.55	13.86	15.21	18.00	18.00	19.52	20.49	20.98	30.21	22.79	22.71	24.77	24.59
Missouri	103.60	103.06	102.77	101.76	109.43	116.82	123.03	126.78	129.71	130.15	125.03	130.00	130.57	137.00	138.27	141.11
Commercial	4.37	4.55	4.39	4.93	4.67	4.64	5.21	5.10	4.39	4.65	4.53	5.04	4.48	4.41	4.39	4.22
Industrial	10.84	9.41	9.80	10.05	10.25	10.26	10.30	10.61	10.42	11.44	9.89	10.49	10.91	10.64	12.05	11.64
Residential	7.47	7.99	8.76	8.76	8.08	8.27	9.36	8.67	7.28	7.79	7.77	8.50	7.82	7.84	7.35	6.97
Transportation	33.70	34.76	35.98	35.98	37.03	38.34	40.28	41.19	44.75	44.17	39.38	39.47	40.38	41.47	40.67	41.50
Electric Power	47.21	47.54	46.11	42.03	49.41	55.32	57.90	61.22	62.86	62.10	63.46	66.49	66.99	72.63	73.81	76.78
Montana	28.24	29.46	30.77	28.52	31.46	31.00	28.08	30.15	31.71	32.38	31.45	32.82	30.94	32.97	35.12	36.27
Commercial	0.88	0.89	0.76	0.87	0.81	0.82	0.97	0.97	0.77	0.74	0.84	0.85	0.88	0.94	1.08	1.10
Industrial	4.37	4.22	4.32	4.82	4.32	5.24	4.85	4.48	4.72	5.03	4.64	5.14	4.87	5.08	5.87	6.15
Residential	1.25	1.30	1.12	1.33	1.21	1.28	1.47	1.49	1.24	1.38	1.41	1.39	1.41	1.53	1.68	1.60
Transportation	5.83	5.76	6.24	6.45	6.73	6.99	6.88	7.04	7.05	7.33	7.44	7.56	7.56	7.11	7.76	8.32
Electric Power	15.91	17.29	18.33	15.04	17.79	16.67	13.94	16.17	17.93	18.04	17.15	17.90	16.22	18.31	18.84	19.09
Nebraska	33.14	33.94	32.80	36.26	36.19	38.73	41.21	42.61	42.61	41.42	41.20	42.50	41.87	42.81	42.82	43.10
Commercial	2.15	2.30	2.02	2.00	2.25	2.22	2.35	2.10	1.71	1.63	1.80	1.77	1.67	1.72	1.83	1.65
Industrial	4.57	4.50	4.62	5.33	5.54	5.49	4.98	5.40	6.18	5.37	5.67	5.92	5.80	5.69	5.98	5.89
Residential	2.47	2.70	2.50	2.84	2.63	2.65	3.02	2.84	2.58	2.58	2.71	2.93	2.81	2.71	2.44	2.46
Transportation	10.48	10.19	10.54	10.61	10.86	11.51	12.59	12.79	13.39	13.74	12.11	11.41	11.71	11.91	12.18	12.01
Electric Power	30.59	32.50	33.53	34.04	36.27	35.40	38.00	37.94	40.22	40.97	45.00	44.30	41.27	43.10	47.32	49.56
Nevada	1.03	1.12	1.08	1.38	1.40	1.41	1.58	1.35	1.46	1.43	1.60	1.41	1.47	1.44	1.61	1.73
Commercial	2.14	2.22	2.50	2.55	2.67	3.06	2.70	2.85	2.73	2.60	2.46	2.44	2.20	1.96	2.49	2.79
Industrial	1.22	1.32	1.25	1.39	1.41	1.33	1.46	1.62	1.93	1.85	1.85	1.98	2.07	1.95	2.11	2.28
Residential	9.42	9.80	9.99	10.42	11.03	11.42	12.70	12.68	13.00	13.83	14.42	14.42	14.65	14.92	15.98	16.65
Transportation	16.79	18.04	18.70	18.31	19.77	19.44	21.09	19.44	21.09	21.26	24.67	24.04	20.88	22.81	25.13	26.11
Electric Power	14.68	14.31	14.42	14.94	15.02	15.08	15.68	16.98	16.98	17.15	17.74	16.79	17.52	20.55	21.83	21.21
New Hampshire	1.32	1.29	1.14	1.12	1.27	1.15	1.28	1.31	1.14	1.16	1.44	1.31	1.31	1.52	1.81	1.93
Commercial	0.83	0.84	1.15	1.40	1.18	1.09	1.45	1.45	1.44	1.41	1.64	1.24	1.13	1.07	1.14	0.98
Industrial	2.47	2.46	2.57	2.56	2.63	2.76	2.94	2.91	2.84	2.87	2.93	2.86	2.68	3.24	3.17	3.17
Residential	5.21	5.31	5.27	5.39	5.63	5.76	5.91	6.23	6.84	7.10	7.24	7.25	8.10	7.54	7.77	7.43
Transportation	4.85	4.42	4.28	4.45	4.41	4.32	4.11	5.09	4.73	4.61	4.49	4.14	4.30	7.17	7.71	7.70
Electric Power	115.37	115.88	122.89	119.57	129.41	128.66	126.31	128.30	123.54	126.97	126.92	124.76	124.78	126.18	129.51	134.54
New Jersey	10.92	11.02	11.41	10.79	11.04	10.05	11.22	11.51	10.16	11.70	10.97	9.50	9.53	10.58	10.84	11.24
Commercial	19.61	19.38	23.61	23.68	24.23	24.10	22.40	22.79	21.62	21.86	15.16	17.16	16.50	17.11	17.71	17.22
Industrial	15.47	15.44	16.75	16.42	18.25	16.24	17.92	17.18	15.23	16.24	17.00	16.49	15.88	18.43	17.48	16.90
Residential	57.16	57.98	58.19	55.29	60.45	61.31	59.00	59.72	60.63	60.56	64.92	63.01	63.85	62.10	64.61	70.10
Transportation	12.22	12.06	12.73	13.39	15.44	16.96	15.76	17.10	15.89	16.61	18.87	18.61	19.02	17.96	18.87	19.09
Electric Power	48.04	50.63	51.65	51.65	51.61	50.13	52.59	55.97	55.54	56.37	58.18	57.93	55.39	56.94	58.34	58.98
New Mexico	1.64	1.65	1.72	1.46	1.45	1.45	1.58	1.62	1.56	1.64	1.60	1.72	1.75	1.74	1.68	1.69
Commercial	7.06	6.54	6.77	6.54	6.60	6.93	8.47	7.77	6.93	6.90	8.18	7.86	7.37	7.70	8.27	7.92
Industrial	1.97	1.96	2.00	1.95	1.82	1.76	2.05	2.24	2.23	2.33	2.31	2.58	2.43	2.18	2.32	2.28
Residential	14.82	14.58	14.05	14.84	14.14	12.74	15.44	15.44	15.42	15.50	15.22	15.59	15.45	14.90	15.64	15.33
Transportation	27.08	23.31	26.09	26.61	27.69	27.26	27.76	28.90	29.40	30.01	30.87	30.18	28.39	30.43	30.43	31.76
Electric Power																

New York	210.15	201.17	196.44	199.48	204.14	208.94	207.61	210.11	215.69	208.15	200.49	212.68	215.86	210.91
Commercial	27.06	26.69	27.71	27.06	27.90	29.69	27.70	30.18	32.06	30.63	30.38	33.08	34.51	28.65
Industrial	21.42	20.66	22.05	22.27	24.00	26.25	25.61	21.68	20.97	16.95	15.36	15.24	15.40	16.45
Residential	33.65	32.92	35.72	34.29	36.63	34.73	31.66	34.36	39.30	36.23	35.16	39.03	38.06	39.11
Transportation	64.01	62.41	62.18	61.17	65.88	65.79	66.20	66.79	67.20	66.93	68.54	72.97	75.04	72.13
Electric Power	64.01	59.51	54.31	47.68	47.01	52.47	56.44	57.10	56.16	55.35	51.04	52.36	52.85	55.58
North Carolina	111.36	110.94	121.28	122.49	141.19	143.50	142.54	141.35	148.85	143.48	145.09	146.05	150.16	153.51
Commercial	3.59	3.39	3.61	4.11	4.41	4.21	4.10	3.84	4.30	4.24	3.79	4.57	5.00	4.82
Industrial	18.08	17.51	19.29	18.91	19.91	19.70	18.82	17.79	18.24	16.65	16.14	15.69	16.50	16.27
Residential	5.34	5.47	6.13	6.05	7.67	7.00	6.81	6.49	7.29	6.96	6.52	7.35	7.32	6.71
Transportation	38.30	37.77	38.45	41.40	42.90	46.07	47.08	48.15	49.83	49.61	49.61	50.12	51.99	52.81
Electric Power	46.04	46.79	53.80	53.13	63.94	66.53	66.73	65.08	69.19	66.58	69.04	68.31	69.36	72.89
North Dakota	40.54	41.94	43.18	44.06	44.89	43.75	44.12	45.73	47.63	48.14	47.99	47.57	46.48	48.16
Commercial	0.85	0.86	0.86	0.89	1.00	0.97	0.86	0.89	0.95	0.97	1.12	1.00	1.09	1.12
Industrial	6.05	6.11	6.18	6.50	7.07	6.59	6.61	6.44	7.71	8.02	7.56	7.55	7.43	7.69
Residential	1.11	1.22	1.09	1.14	1.29	1.26	1.05	1.15	1.26	1.27	1.22	1.26	1.28	1.25
Transportation	4.61	4.66	4.88	5.11	5.10	5.30	4.74	5.66	5.54	6.00	5.94	5.96	6.27	6.25
Electric Power	27.93	29.08	30.22	30.47	30.99	29.63	30.84	31.60	32.17	31.89	32.28	31.79	30.41	32.85
Ohio	246.45	244.38	248.86	249.82	264.87	261.25	258.58	257.55	263.95	253.01	258.38	265.11	261.90	269.97
Commercial	10.55	10.53	11.11	11.12	12.76	12.47	10.52	10.83	11.51	11.11	10.95	11.34	11.30	10.90
Industrial	51.39	47.19	49.09	46.81	45.29	44.44	43.51	43.10	40.24	38.83	37.05	38.03	38.14	38.66
Residential	20.53	21.09	22.13	22.95	24.26	22.93	19.28	21.26	21.97	19.44	20.26	21.72	20.31	20.49
Transportation	58.93	55.22	54.46	58.38	62.26	64.00	64.76	66.67	68.57	68.32	68.83	68.96	71.16	70.62
Electric Power	108.05	110.35	112.09	111.71	120.29	117.43	120.51	115.69	121.66	115.31	121.30	125.05	120.98	129.31
Oklahoma	88.69	90.08	93.13	94.69	98.38	99.75	97.00	96.02	98.62	100.80	100.91	102.91	98.97	106.09
Commercial	2.52	2.52	2.20	2.41	2.75	3.16	2.69	2.41	2.54	2.61	2.51	2.23	2.29	2.42
Industrial	20.87	20.87	22.10	22.61	22.09	22.69	20.61	19.83	19.92	17.81	17.51	19.29	19.79	20.20
Residential	3.85	4.03	3.82	4.04	4.54	4.24	3.93	3.86	4.19	4.09	4.37	4.17	3.73	3.73
Transportation	23.84	24.43	26.33	26.48	25.19	26.36	26.90	28.20	30.12	32.94	30.78	31.00	28.92	30.87
Electric Power	35.37	38.23	38.68	39.41	41.34	42.33	42.88	41.72	43.64	43.34	45.74	46.21	44.23	48.87
Oregon	31.07	34.78	35.88	37.67	36.91	36.43	42.19	43.38	41.82	41.94	40.24	40.60	42.50	42.67
Commercial	1.88	1.86	1.65	1.71	1.89	1.88	1.96	2.03	2.06	2.13	2.05	1.74	1.78	1.84
Industrial	5.31	5.51	6.19	6.50	7.38	7.38	8.50	9.02	7.07	6.93	7.17	6.47	7.32	6.71
Residential	2.04	2.19	1.90	2.35	2.47	2.37	2.46	2.79	2.75	2.76	2.78	2.66	2.58	2.68
Transportation	20.04	21.61	21.63	21.65	21.97	22.09	23.08	23.32	22.59	21.60	21.87	21.67	22.80	23.39
Electric Power	1.79	3.61	4.31	5.45	3.20	2.70	6.19	6.22	7.34	8.52	6.37	8.05	8.03	8.05
Pennsylvania	265.36	257.92	266.11	265.83	273.20	277.64	263.21	261.29	273.96	261.11	268.09	271.07	275.22	277.00
Commercial	13.18	13.14	14.08	14.30	14.30	13.88	11.95	12.77	12.77	12.58	12.65	13.24	12.85	12.75
Industrial	64.85	58.85	63.07	60.71	59.85	62.26	49.80	49.12	49.47	48.16	47.92	48.94	49.23	46.92
Residential	23.62	23.85	25.46	25.82	26.13	24.70	21.10	23.52	25.70	24.43	23.99	26.29	25.51	23.92
Transportation	59.50	59.30	60.53	62.67	63.22	65.47	67.52	68.22	70.38	70.15	70.51	69.00	71.12	72.28
Electric Power	104.21	102.78	102.98	102.33	110.20	111.64	112.84	108.35	115.63	105.80	113.02	113.59	116.51	121.14

Rhode Island	8.91	10.79	13.04	10.87	12.85	12.09	13.51	13.60	13.83	13.18	11.73	12.28	11.74	11.43	10.95	11.28
Commercial	1.11	1.16	1.08	1.13	1.38	1.25	1.42	1.34	1.13	1.08	1.22	1.25	1.16	1.27	1.20	1.15
Industrial	0.66	1.79	2.96	0.99	2.63	2.24	1.82	1.66	2.56	2.15	2.70	0.56	0.53	0.58	0.62	0.64
Residential	2.34	2.35	2.78	2.66	2.71	2.50	2.87	2.62	2.39	2.33	2.51	2.58	2.49	2.77	2.80	2.74
Transportation	4.13	4.14	4.06	4.09	4.01	4.12	4.16	4.62	4.47	4.65	4.64	4.68	4.63	4.52	4.36	4.37
Electric Power	0.67	1.36	2.17	1.99	3.44	1.98	3.44	3.36	3.28	2.97	2.66	3.21	2.93	2.29	2.39	2.39
South Carolina	61.41	62.90	62.14	66.66	66.91	65.73	68.88	70.92	73.93	77.13	80.30	79.26	80.51	80.92	88.56	87.24
Commercial	14.06	14.11	14.71	15.16	14.83	14.47	13.08	13.42	13.45	13.11	13.22	14.16	14.33	14.40	14.62	13.76
Industrial	2.13	2.32	2.24	2.50	2.28	2.34	2.59	2.34	2.27	2.36	2.52	2.24	2.18	2.32	2.37	2.34
Residential	21.98	22.76	21.94	22.39	22.79	22.75	23.26	24.28	25.65	26.46	27.03	27.29	27.86	27.92	32.10	30.60
Transportation	21.92	22.41	21.81	24.96	25.46	24.56	28.28	29.25	30.67	33.01	35.86	33.97	34.64	34.74	37.93	38.91
Electric Power	11.89	11.66	11.74	12.44	13.13	12.87	12.76	13.31	12.75	13.38	14.08	13.39	13.70	13.56	13.70	13.19
South Dakota	11.89	11.66	11.74	12.44	13.13	12.87	12.76	13.31	12.75	13.38	14.08	13.39	13.70	13.56	13.70	13.19
Commercial	0.68	0.74	0.67	0.74	0.74	0.78	0.81	0.76	0.66	0.66	0.73	0.71	0.71	0.69	0.68	0.67
Industrial	2.11	2.01	1.94	2.31	2.47	2.26	2.34	2.32	2.14	2.23	2.55	2.03	2.25	2.29	2.21	2.20
Residential	1.35	1.19	1.01	1.23	1.15	1.21	1.45	1.32	1.12	1.09	1.20	1.12	1.18	1.22	1.05	1.03
Transportation	4.65	4.42	4.99	5.10	5.44	5.54	5.53	5.38	5.95	5.71	5.80	5.71	6.24	5.79	5.95	6.06
Electric Power	3.10	3.35	3.13	3.06	3.33	3.07	2.63	3.52	3.28	3.69	3.81	3.82	3.32	3.58	3.80	3.24
Tennessee	105.73	101.22	106.84	117.69	112.57	118.98	118.81	122.12	121.07	121.58	126.90	125.61	125.52	123.08	125.38	127.25
Commercial	3.39	3.36	3.54	3.60	3.50	3.56	4.00	3.82	3.49	3.64	3.83	3.76	3.81	3.97	3.72	3.52
Industrial	20.05	19.97	21.48	21.35	21.63	21.19	19.98	20.55	20.97	20.43	19.64	21.20	20.75	20.58	20.41	19.98
Residential	3.29	3.44	3.65	4.00	3.95	4.07	4.84	4.41	4.08	4.29	4.80	4.56	4.84	4.66	4.41	4.39
Transportation	32.73	31.05	32.40	34.39	35.28	37.08	38.26	38.60	39.45	40.72	41.42	41.21	43.68	44.45	44.93	46.05
Electric Power	46.27	43.40	45.77	54.35	48.21	53.09	51.74	54.75	53.09	52.49	57.20	54.88	52.44	49.43	51.90	53.31
Texas	588.27	583.70	589.81	604.52	608.25	610.32	656.41	674.53	678.15	666.73	691.56	680.43	710.61	707.15	687.97	663.87
Commercial	11.64	11.83	12.01	10.65	11.12	12.93	11.12	13.06	11.04	11.13	13.37	11.50	15.20	15.26	13.37	10.35
Industrial	225.27	224.43	229.67	228.59	235.26	238.53	262.19	268.87	260.36	246.88	255.20	245.90	257.90	262.24	248.23	218.41
Residential	13.06	13.19	12.75	13.49	12.64	12.18	13.14	13.65	12.15	11.77	13.07	14.13	15.11	15.06	11.77	12.15
Transportation	152.81	149.56	153.03	152.46	156.21	153.71	166.12	170.52	179.42	178.14	182.30	189.92	197.04	189.34	192.37	194.04
Electric Power	185.50	184.70	182.35	193.33	193.01	192.97	203.83	208.43	215.17	218.81	227.62	218.98	225.36	225.24	224.34	228.92
Utah	53.80	52.70	54.21	56.11	56.93	57.14	57.86	60.45	62.31	61.05	63.79	61.76	61.18	61.76	64.38	66.06
Commercial	1.64	1.86	1.56	1.69	1.89	1.84	2.00	2.16	2.18	2.20	2.05	2.20	2.54	2.12	2.41	2.21
Industrial	9.76	9.13	8.99	9.20	8.93	10.11	9.56	10.15	11.21	8.89	10.31	9.25	6.33	6.54	7.74	8.63
Residential	2.78	3.15	2.76	3.12	2.89	2.86	3.12	3.39	3.25	3.24	3.28	3.36	3.58	3.25	3.62	3.48
Transportation	10.62	11.03	11.23	11.69	11.91	12.91	13.48	14.06	14.29	14.79	15.63	14.98	15.56	15.70	16.45	16.75
Electric Power	29.00	27.53	29.67	30.42	31.31	29.42	29.70	30.68	31.38	31.92	32.51	31.99	33.17	34.15	34.16	34.78
Vermont	5.46	5.64	6.10	6.19	6.02	5.98	6.26	6.48	6.23	6.49	6.72	6.57	6.31	6.51	7.01	6.79
Commercial	0.53	0.59	0.67	0.63	0.62	0.53	0.59	0.65	0.69	0.64	0.70	0.70	0.64	0.70	0.74	0.66
Industrial	0.46	0.46	0.54	0.56	0.43	0.39	0.42	0.69	0.47	0.64	0.57	0.49	0.47	0.51	0.60	0.60
Residential	1.42	1.49	1.63	1.58	1.51	1.46	1.54	1.50	1.44	1.41	1.63	1.63	1.53	1.59	1.83	1.66
Transportation	3.00	3.03	3.22	3.41	3.44	3.56	3.70	3.63	3.58	3.75	3.70	3.70	3.65	3.69	3.81	3.86
Electric Power	0.04	0.06	0.05	0.02	0.02	0.02	0.01	0.02	0.06	0.04	0.12	0.04	0.02	0.03	0.02	0.01
Virginia	95.36	96.67	97.93	102.49	101.21	103.32	107.93	110.50	111.67	113.81	122.55	120.54	119.02	122.88	127.38	128.93
Commercial	4.34	4.09	4.52	4.92	4.86	5.20	5.94	5.47	5.51	5.27	5.73	5.23	4.89	5.55	5.45	5.49
Industrial	19.94	20.57	19.52	17.93	18.05	18.02	17.96	18.66	18.14	17.68	17.70	17.46	17.28	18.36	18.85	18.74
Residential	6.50	6.39	6.97	7.17	7.10	7.20	8.13	7.79	7.12	7.25	8.28	7.52	7.33	8.31	8.41	8.50
Transportation	41.50	40.50	40.24	41.22	41.91	42.54	42.84	44.23	44.88	45.80	48.54	48.49	48.63	50.10	54.40	55.17

Electric Power	23.08	25.12	26.69	31.25	29.16	30.36	33.06	34.35	36.22	37.80	42.30	41.84	40.89	40.56	40.27	41.03
Washington	72.03	72.84	80.94	76.56	81.22	79.11	81.74	79.61	84.03	85.24	84.55	86.23	79.32	80.87	84.90	85.61
Commercial	3.18	3.27	2.74	3.11	3.09	3.17	3.27	3.25	3.06	3.49	3.42	3.85	3.25	3.21	3.10	3.31
Industrial	16.99	15.97	18.04	16.51	18.43	17.89	18.34	16.79	21.59	21.99	17.28	19.82	17.90	17.56	19.92	19.50
Residential	3.54	3.83	3.49	4.16	4.21	4.11	4.73	4.83	4.74	5.31	5.21	6.00	5.49	4.93	4.86	5.03
Transportation	41.22	41.84	46.48	42.51	43.55	45.60	44.70	45.75	43.00	43.83	44.65	42.67	41.36	41.23	43.11	43.84
Electric Power	7.51	7.93	10.18	10.27	11.93	8.35	10.71	8.99	11.64	10.62	14.00	13.90	11.33	13.94	13.91	13.94
West Virginia	106.54	97.81	99.87	100.84	108.13	106.24	106.98	110.76	112.70	114.46	113.57	104.65	116.92	113.79	112.18	113.13
Commercial	1.96	1.80	1.85	1.82	1.82	1.78	1.95	1.87	1.97	2.08	2.17	1.91	1.59	1.74	1.87	1.75
Industrial	21.77	18.36	17.61	17.99	18.52	17.08	13.69	12.46	14.76	13.30	13.30	14.15	15.61	13.63	14.70	13.08
Residential	2.41	2.33	2.46	2.53	2.53	2.43	2.66	2.64	2.26	2.40	2.38	2.41	2.12	2.27	2.45	2.13
Transportation	10.34	10.20	11.06	11.49	12.11	12.21	10.99	12.00	12.58	12.27	12.66	12.46	12.19	11.61	12.48	12.43
Electric Power	70.06	65.11	66.89	67.02	73.16	72.74	77.79	81.79	81.14	84.42	83.06	73.71	85.41	84.53	80.68	83.75
Wisconsin	86.14	88.41	87.58	91.40	94.57	97.41	103.30	106.14	102.97	107.15	109.09	105.94	106.45	104.36	107.05	110.53
Commercial	4.85	5.06	4.87	5.20	5.16	5.63	6.07	5.98	5.62	5.74	5.67	5.45	5.86	6.08	5.68	6.27
Industrial	14.50	14.88	14.84	15.65	16.14	16.16	18.07	18.83	17.69	19.16	19.90	17.35	17.65	15.78	16.65	16.06
Residential	9.35	10.01	9.75	10.47	10.03	10.17	11.33	10.22	8.81	9.89	10.08	9.61	10.27	10.48	10.02	9.73
Transportation	24.23	24.03	24.53	25.45	26.96	27.43	27.82	27.94	29.50	30.27	29.69	29.54	29.60	29.07	30.57	30.38
Electric Power	33.22	34.42	33.58	34.62	36.28	38.11	40.00	43.19	41.36	42.09	43.74	43.40	43.07	42.95	44.13	48.09
Wyoming	57.76	56.00	61.71	58.91	61.13	58.78	60.24	59.70	63.29	61.82	62.84	63.83	61.79	63.48	63.53	62.87
Commercial	0.83	0.91	0.73	0.95	0.99	0.92	1.28	0.93	0.94	0.89	0.97	0.97	0.91	0.85	0.86	0.80
Industrial	10.30	9.86	11.87	10.27	10.58	9.97	10.17	10.35	10.55	9.88	9.72	9.99	10.24	10.30	10.12	10.03
Residential	0.84	0.90	0.78	0.89	0.83	0.87	0.96	0.81	0.78	0.77	0.83	0.81	0.93	0.87	0.86	0.85
Transportation	5.74	5.27	5.54	5.93	5.84	6.74	6.74	6.85	7.05	8.05	7.57	7.73	7.67	8.33	8.07	8.33
Electric Power	40.05	39.07	42.80	40.86	42.89	40.27	41.09	40.76	43.97	42.23	43.55	43.53	42.04	43.13	43.62	42.86

* Emission estimates are based on energy consumption data from EIA's State Energy Consumption, Price, and Expenditure Estimates (SEDS) released February 29, 2008.