We are Building Generating Plants in Vermont to Address a Problem Created By Other Sectors of Our Society

"I believe there is no greater challenge and opportunity for Vermont and our world than the challenge to change the way we use and produce ***energy****."* [Emphasis added] Peter Shumlin

The battle we must fight is not with electricity in Vermont but with energy consumption. Before we tilt at windmills and argue how biomass plants do or do not significantly add to our problems of carbon emissions, we need to understand that Vermont can fight much more effective battles by: 1.) waging war on energy consumption in Vermont that is accounting for large carbon emissions – that means becoming bolder and more creative about transportation and home heating emissions which account for nearly 80% of our carbon emissions; and 2.) by tightening our Section 248 process to give the PSB the necessary room to deny so-called renewable projects that are not clearly (and quantifiably) beneficial to Vermont(and secondarily the region), or are not sited appropriately (i.e. away from ecologically sensitive areas).

The Agency of Natural Resources needs to state clearly what types of electric or energy[1] projects it generally favors and which ones presently impose greater long term dangers to our state and its fragile ecosystem.[2] This can only assist utilities and private investors in the application process but it can reduce subsequent litigation time and costs. If a utility or private investor with an eye toward large tax credits and other financial rewards wants to ignore or challenge the Agency's advice and try to prove that it has better science or that science has improved or that it can site its facility in an ecologically sensitive manner then it should be able to pursue its application. It is not enough today, however, to simply say that climate change should allow an investor or applicant to be granted a Certificate of Public Good when that applicant has *not quantified the overall ecological damage and detriment to Vermont* vs. the supposed quantifiable carbon benefits.

An analysis of Section 248 requires that we understand what criteria the Board looks at in deciding whether to approve a particular project. Historically, those criteria were contained essentially within Section 248(b). With the advent of climate change and the recognition that carbon emissions promote, if not cause, climate change there are now both internal and external forces influencing the Board's decisions under Section 248 that were not present when Section 248 was passed. Both the Regional Greenhouse Gas Initiative ("RGGI") and Vermont's goals of promoting the development of new renewable generation in a timely manner may influence and guide the Board's decisions outside the traditional Section 248(b) criteria. See e.g. *Re: Green Mountain Power Corporation*, Docket No. 7628, May 11, 2011, p. 1. (Attachment 1)

In assessing Section 248 and where we are in the debate over permitting electric generating plants we need to begin with Vermont's energy profile – its carbon footprint and an understanding of what is causing the problems driving the desire, if not the perceived need, to

[1] For instance it may favor small wind turbines or thermal biomass plants, and not favor large wind turbines or electric biomass plants.

[2] Perhaps some system that weighs the environmental impacts can be developed that can guide the PSB in weighing the benefits (and clear detriments) of many of these proposed facilities before the filing is made.

construct a number of generating facilities in Vermont. We need to understand if there is a need for these projects, and what the cost benefit is to develop these types of projects in Vermont. If that has been done, it has not been done particularly well. We need to understand if there are better ways to focus our limited natural resources – that will lead to more carbon reduction and less environmental destruction.

These are the facts I have gathered:

- Vermont has the smallest carbon footprint in the US
- Vermont has the smallest per capita carbon footprint in the US
- Vermont uses less electricity than any state in the US (including D.C.)
- Vermont has the smallest contribution to atmospheric carbon *from electricity* in the US. Vermont's contribution from electricity is around ***4%*** (depending on the year).[3] Nationally the carbon contribution from electric generation is about 40% of the total carbon emissions.

- ***Vermont has about 47% carbon contribution from transportation.*** Nationally the carbon contribution is 31% from transportation.
- ***Vermont has about a 31% carbon contribution from residential and commercial heating.*** Nationally the carbon contribution is 10% nationally.
- ***Combined Vermont Transportation and Heating contribution to carbon is about 78%.***
- Combined U.S. Transportation and Heating contribution to carbon is 41%.

I have attached a recent EIA State Energy Consumption, Price and Expenditure Estimates for 2011 to show Vermont's relative impacts. Attachment 2.

It is not entirely clear that additional renewable, non-firm sources will *materially* contribute to the reduction of the 4% figure. The real question is whether these smaller, incidental carbon savings, i.e. some percentage of the 4% - compensates for the massive

[3] The percentages change slightly from year to year and depending on the data one uses but these numbers seem to be the best I could derive from such short notice and appear to be reasonably accurate. The link to ANR's figures on carbon emissions sources: http:www.anr.state.vt.us/anr/climatechange/Pubs/Vermont%20GHG%20Emissions%20Inventory%20Update%201990-2008%20FINAL_09272010.pdf
Page 9 and 10 provide the tables that show .34 million metric tons/co2 from electricity and 8.37 mmt/co2 from all sources = 4.06 mmt/co2 from electricity. Page 12 shows Vermont electric industry is accounted for 4.1% of Gross GHG Emissions in 2008. Perhaps we are presently below 4% with the Lowell Mtn. Wind Generators. The real question is whether a reduction in emissions, if quantifiable below 4%, was worth the massive loss of natural resources associated with that particular project? That is the kind of enormous, perhaps unanswerable question that was presented to the Public Service Board. There is a better way to address carbon reductions. Alternative energy isn't the problem – the siting criteria and evaluation process is. It is a systemic problem; not a PSB problem. The need and costs associated with these facilities have to be broken out from the milestones and deadlines imposed on the Board to approve "renewable energy" projects or the Board is handicapped and the environment and ultimately the state will always lose.

destruction or further introduction of GHGs in Vermont. In any event one would need to calculate the carbon reductions assuming what fossil fuel power plants are shut down or idling as a result of the operation of the new renewable energy plant in comparison to the value of the ecological systems lost forever. Those relationships may be sufficiently attenuated to render precise reductions and savings although ISO-NE is capable of making broad assumptions to derive some benefits, I suspect. In any event these new plants - assuming they provide power to Vermont - may reduce some fraction of the 4% carbon. What is clear is that if we want to address our own problems – emissions caused from home and building heating and lighting and transportation and industrial processes - there are clearly more fertile areas to address carbon with much less environmental damage and perhaps even better public response. It is worth noting that if wind turbines were appropriately sited in flat areas of upper New York State farmland or in the Midwest or Texas plains there would likely not be sizeable ecological damage associated with their construction. Vermont should look into purchasing RECs in other wind facilities were the siting can be done more appropriately. Why should RECs only work one way?

Not surprising Vermont creates significantly more carbon from transportation and our home and business heating and lighting sectors. The question is how do we address those better, because by doing so you will save much more than the total 4% carbon emissions presumably still being created by the electric industry in our state and we won't need to construct industrial plants in extremely sensitive ecological locations, adversely impacting our environment, and causing division and unrest among our citizens. By focusing our efforts on the areas that produce significantly more carbon emissions we can have a far greater impact on our carbon emissions and virtually eliminate the environmental toll. We can do much, much better.[4]

This is not the fault of the PSB. Follow the money. The money provides massive incentives to utilities and investors to propose these projects. It then becomes more than carbon savings.

I. Electricity Generation is Not the Problem

A rigorous cost benefit analysis would reveal the cost effectiveness of different alternatives in order to gauge whether the benefits outweigh the costs – both fiscal and environmental. With carbon emissions, you need to separate the cause of the emissions into its constituent parts. As seen above there are many causes of carbon dioxide. In the state of Vermont electricity is *not* anywhere near the driving force behind carbon emissions. (In fact, in New England the electric industry does not appear to be a driving force of carbon emissions when compared to national numbers.) There may be a hypothetical where Vermont tries to solve some of New England's and New York's/mid-Atlantic carbon problems or this country's carbon problems or the global climate issues but if we start at home to address what Vermont is contributing to our local, regional and national problems then one must recognize that the electric industry over the past several decades and today has done quite well. The Vermont electric industry is not anywhere near the problem. We should be proud of that industry and the PSB for their forward planning.

[4] We can still participate in RGGI and promote SPEED, but in doing so we need to be mindful that the environmental considerations and standards need to be tightened.

Section 248 was constructed to review requests by monopoly utilities to sell power to or construct transmission facilities for Vermonters. The three most important criteria under Section 248(b) historically were: i.) need; ii.) benefit to the state and its ratepayers; and iii.) reliability and stability. If you could properly address these three criteria the other criteria could be dealt with – because there was a clear need demand, need and benefit in Vermont.

Today, those criteria may be surpassed by other considerations, and not necessarily the environmental criteria within Section 248(b). Today, a plant that may not provide firm capacity, may not be necessarily aimed at Vermonters or may be offered at 2 to 4 times the going energy price, may be sited in or on some of the most spectacular and sensitive ecosystems or locations in our state and it is still approved. Why? Because there are now targets for developing renewable energy in Vermont. The Board is under significant pressure to approve projects that don't fit the traditional model: the energy price may be very high when compared to the existing market, the source is not firm power, the state and the ratepayers don't "need" the energy or capacity and to top it off the location is extremely sensitive. But imposed legislative milestones must be met. The devil is in the details. Until this is better clarified the Board will continue to toil under inexact and unclear requirements for Section 248.

No one questions the need to address climate change. But the questions are: where is our best opportunity to attack GHG's in Vermont in the most intelligent manner? Where is our best opportunity to address climate change? We need to be careful or we will lose what makes Vermont special.

There are two broad choices: try to reduce the 4% of carbon emitted by our electric industry or addresses the real problems of carbon in Vermont: transportation and home and building heating/lighting emissions which account for almost 80% of our carbon emissions.

If we select the first, and try to address regional emissions, we must do so in a manner that is the most environmentally appropriate.

II. **The Law of Diminishing Returns.**

Vermont utilities and the state have worked extremely hard to attain the 4% carbon contribution from electricity. VELCO with the State's influence constructed the tie to N.Y. to bring in NYPA power in the 1950's. The Utilities with the State's influence constructed the transmission tie to Quebec. We now have connections to Quebec, Ontario and N.Y. State. We have gas connections to Canada. Intentionally or not, Vermont has reduced its carbon footprint from electricity production. We have spent enormous sums of capital in constructing, maintaining and operating these lines. We have addressed much of our in-state carbon problem. We are now paying more at the margin to reduce some additional percentage of the 4% of the residual carbon emissions. The real cost to our citizenry and environment should not be ignored.

III. All Renewables Are Not Created Equal in Terms of Environmental Impacts.

Renewable energy comes with its own unique costs. The costs must be quantified both in terms of environmental impacts and how those resources otherwise assist our state in reducing GHGs.

In a recent editorial Commissioner Mears commented that brownfields could be addressed in part by the Agency pre-selecting sites to receive priority from the state in terms of funding and permitting. The idea of the state identifying the need for power, they type of generation it prefers given our ecological boundaries and the sites or locations that are either best suited or least suited for construction could assist developers and investors in choosing the type of generation to propose. Today, the major motivators are tax credits, RECs and milestones for developing "alternative energy" established by the Legislature or the region. A wind farm on a farm in upstate New York has an overall better environmental and social result than a comparable wind farm on a remote once pristine ridgeline that serves as a water shed and provides significant wetland, habitat and other ecological benefits. If RECs can be sold by Vermont developers of renewable power, then RECs can be purchased by such utilities or investors in projects that perhaps fit much better in other states and locations. This is a national and global problem; not just a Vermont issue.

The Agency must be proactive for our state to contribute to the cause of reducing carbon dioxide without ruining the parts of our environment that are most sacred to many Vermonters.

IV. Vermont Does Not Require New Generation.

Both Vermont and New England are by most indications, including the Vermont Comprehensive Energy Plan, awash in capacity and are projected to be in excess capacity for several years to come. That does not mean that properly located, inherently green renewable projects cannot be located in appropriate locations. But we don't need to violate our environmental ethic to site projects in highly inappropriate locations.

2011 WL 3210820 (Vt.P.S.B.)
PUR Slip Copy

Re Green Mountain Power Corporation

Docket No. 7628

Vermont Public Service Board

May 31, 2011

APPEARANCES: (*See* Attachment A)

Before Volz, chairman, and Coen, and Burke, board members.

BY THE BOARD:

I. INTRODUCTION

*1 In this Order, the Vermont Public Service Board ('Board') approves, with conditions, the joint petition of Green Mountain Power Corporation ('GMP '), Vermont Electric Cooperative, Inc. ('VEC'), and Vermont Electric Power Company, Inc. and Vermont Transco LLC (together 'VELCO')1 for a certificate of public good ('CPG'), pursuant to 30 V.S.A. Section 248, to construct up to a 63 MW wind electric generation facility and associated facilities on Lowell Mountain in Lowell, Vermont, and to install or upgrade approximately 16.9 miles of transmission line and associated substations in Lowell, Westfield, and Jay, Vermont.2 The proposed project consists of either **20** or 21 wind turbines and associated transmission and interconnection facilities. The turbines, each of which is expected to be over 400 feet tall, would be sited along the Lowell Mountain ridgeline in Lowell, Vermont.

After careful consideration of the comments raised by parties and the public and the evidence in the record, we find that, subject to a number of conditions set out in this Order, the proposed project will promote the general good of the state and the Petitioners should be granted a CPG under Section 248 authorizing construction and operation of the project.

The proposed project will be a source of energy that does not produce greenhouse gases. As a non-emitting **renewable** resource, it will contribute to meeting the need for **renewable** energy in the region and aid in achieving the standards of the Regional Greenhouse Gas Initiative ('RGGI'). The new source will help meet the state's goals of promoting the development of new **renewable** generation. These include the standards in the Sustainably Priced Energy Enterprise Development Program ('SPEED')3 requiring that, by 2012, at least 10% of the state's energy load (as of 2005) be served by new sources of **renewable** energy, as well as the state's separate, longer-term goal of providing 25% of the energy used in Vermont from **renewable** resources.

We also find that the proposed project will provide an economic benefit to the State of Vermont in the form of jobs and tax revenues, and, because it will not be merchant-owned, but would rather be the first large-scale generation facility proposed by one of Vermont's investor-owned regulated utilities since the Searsburg wind project was approved in 1996, it will also provide GMP and VEC with a long-term source of stably priced power. These economic benefits, coupled with the fact that the addition of a **renewable** source of power in the region is consistent with the state's legislated policy goals, have led us to conclude that we should approve the proposed project.

In reaching this decision, we are fully aware of the potentially significant impacts of the proposed project. A number of parties have expressed concerns over whether the project will cause undue adverse effects with respect to wildlife habitat, aesthetics, and noise, as well as questioned whether this particular power source is needed and whether it would provide an economic benefit to the state at all. Many members of the public have also spoken at public hearings or submitted letters and emails, both opposing and supporting the proposed project. Certainly, a wind facility, like any other generating facility or development, has an effect upon the environment. We have taken these environmental impacts, and the issues raised by parties and the public, into account and have throughout our analysis imposed conditions as necessary to address any

ATTACHMENT 2

CO_2 Emissions from Fossil Fuel Combustion - Million Metric Tons CO_2 ($MMTCO_2$)*

State	Sector	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Alabama		**109.08**	**113.24**	**119.98**	**123.98**	**121.96**	**129.67**	**135.70**	**133.61**	**131.25**	**133.42**	**139.41**	**131.05**	**136.02**	**136.60**	**139.31**	**140.83**	**143.45**	**145.38**	**138.47**	**119.39**	**132.10**
	Commercial	2.43	2.00	2.10	2.05	2.05	1.96	2.16	2.42	1.90	2.19	2.25	2.16	1.99	2.09	2.16	1.85	2.22	1.99	2.01	1.91	2.11
	Industrial	25.15	25.36	28.36	26.18	27.12	27.84	28.70	28.71	25.53	25.70	25.06	21.68	21.67	22.87	23.29	21.84	21.39	20.88	20.63	17.27	18.47
	Residential	3.09	3.02	3.20	3.42	3.30	3.31	3.73	3.34	3.11	3.31	3.66	3.53	3.24	3.08	2.98	2.72	2.50	2.37	2.52	2.49	2.83
	Transportation	28.13	28.70	29.39	29.51	30.66	32.15	31.54	31.17	31.78	32.16	33.55	31.51	33.50	32.23	35.04	34.98	35.60	36.15	34.09	32.69	33.52
	Electric Power	50.28	54.18	56.93	62.82	58.82	64.41	69.58	67.97	68.93	70.06	74.90	72.17	75.61	76.33	75.84	79.46	81.74	84.00	79.22	65.02	75.17
Alaska		**34.30**	**34.90**	**36.28**	**36.14**	**35.95**	**40.50**	**41.58**	**41.66**	**42.64**	**43.18**	**43.83**	**42.89**	**43.05**	**43.02**	**46.33**	**47.51**	**45.57**	**43.90**	**39.26**	**37.59**	**38.45**
	Commercial	2.20	2.23	2.51	2.56	2.59	2.50	2.71	2.56	2.67	2.82	2.69	2.49	2.07	1.93	2.21	2.12	2.42	2.20	2.26	2.14	2.53
	Industrial	15.83	17.44	18.87	18.51	18.06	21.44	22.53	21.17	21.66	20.58	20.53	20.63	21.08	20.79	20.02	21.42	18.40	18.56	16.48	16.84	16.10
	Residential	1.58	1.60	1.74	1.73	1.77	1.81	1.80	1.70	1.65	1.95	1.74	1.81	1.62	1.64	1.80	1.77	2.15	1.85	1.85	1.86	1.80
	Transportation	12.09	11.17	10.86	11.03	11.19	12.33	12.01	13.49	13.75	14.82	15.72	14.73	15.03	15.69	19.15	18.98	19.13	18.04	15.41	13.62	15.00
	Electric Power	2.61	2.46	2.29	2.32	2.33	2.41	2.53	2.74	2.91	3.01	3.16	3.24	3.26	2.97	3.16	3.22	3.47	3.26	3.25	3.14	3.03
Arizona		**62.94**	**63.76**	**66.56**	**69.03**	**71.69**	**66.62**	**68.48**	**71.61**	**76.01**	**80.13**	**85.81**	**88.16**	**87.55**	**89.13**	**96.40**	**96.51**	**99.80**	**101.95**	**102.86**	**94.38**	**95.61**
	Commercial	1.90	1.83	1.78	1.74	1.83	1.79	1.88	1.98	2.28	2.20	2.19	2.09	2.17	2.04	2.02	2.00	2.03	2.12	2.42	2.22	2.38
	Industrial	3.86	3.92	3.93	3.94	4.34	4.68	4.86	4.97	4.70	4.79	4.76	4.86	4.33	4.05	4.60	5.04	5.09	4.92	5.39	4.32	4.82
	Residential	1.83	1.89	1.75	1.71	1.80	1.69	1.65	1.84	2.17	2.08	2.13	2.19	2.16	2.13	2.24	2.13	2.15	2.27	2.41	2.18	2.32
	Transportation	22.83	23.36	23.74	25.05	25.71	26.17	27.80	27.82	30.00	31.67	32.47	33.53	34.36	35.25	36.32	37.00	38.25	37.93	35.54	33.68	32.22
	Electric Power	32.52	32.76	35.37	36.58	38.01	32.30	32.29	35.00	36.87	39.39	44.25	45.50	44.53	45.66	51.23	50.35	52.28	54.72	57.11	52.00	53.87
Arkansas		**51.25**	**50.30**	**51.93**	**51.13**	**55.01**	**58.35**	**61.00**	**59.98**	**60.65**	**62.73**	**63.09**	**62.26**	**60.99**	**61.45**	**62.10**	**59.92**	**61.88**	**63.32**	**63.87**	**61.70**	**66.19**
	Commercial	1.62	1.63	1.59	1.81	1.75	1.80	1.90	1.79	1.75	1.79	2.11	2.14	2.13	2.17	2.02	2.12	1.87	1.86	2.17	2.50	2.57
	Industrial	9.35	8.07	9.56	9.66	10.46	11.40	11.18	11.57	11.43	10.89	10.95	10.96	10.53	10.55	10.28	9.93	10.08	9.89	9.81	8.06	8.85
	Residential	2.52	2.58	2.45	2.84	2.63	2.71	2.86	2.65	2.35	2.66	2.91	2.65	2.62	2.48	2.25	2.15	2.07	2.09	2.34	2.21	2.32
	Transportation	16.16	16.30	16.22	17.02	18.13	18.49	18.85	19.43	19.65	20.88	20.97	19.81	20.43	20.18	20.66	20.67	20.70	21.17	20.82	20.35	20.42
	Electric Power	21.60	21.74	22.11	19.80	22.04	23.96	26.21	24.54	25.47	26.52	26.16	26.70	25.29	26.06	26.88	25.05	27.17	28.31	28.73	28.58	32.03
California		**362.98**	**351.33**	**355.51**	**345.59**	**362.16**	**351.28**	**352.17**	**355.24**	**365.36**	**368.43**	**383.37**	**387.55**	**386.56**	**391.53**	**393.53**	**391.04**	**399.88**	**406.30**	**391.30**	**376.66**	**370.89**
	Commercial	18.96	19.11	17.42	15.51	15.91	17.00	14.74	15.33	17.75	14.90	14.37	14.84	14.23	13.97	14.11	14.22	14.44	15.07	15.55	15.75	15.94
	Industrial	71.62	73.00	73.29	70.53	70.81	69.68	72.87	77.69	75.43	73.46	72.83	74.53	76.17	75.58	79.74	76.88	76.28	74.62	70.89	66.51	68.07
	Residential	29.47	29.25	27.20	28.79	29.35	26.74	26.94	26.73	32.25	31.92	27.53	28.63	28.64	28.32	29.39	28.17	28.37	28.58	28.78	28.27	28.89
	Transportation	202.76	192.02	192.07	188.83	196.73	200.79	204.88	199.74	200.65	204.92	215.83	211.82	223.87	231.04	223.91	229.77	234.30	237.98	225.15	218.27	214.58
	Electric Power	40.18	37.95	45.53	41.93	49.36	37.07	32.75	35.75	39.29	43.22	52.82	57.73	43.65	42.62	46.37	42.00	46.50	50.04	50.92	47.86	43.42
Colorado		**65.33**	**67.35**	**68.32**	**72.15**	**72.62**	**72.68**	**75.69**	**75.90**	**77.33**	**79.47**	**84.17**	**92.02**	**90.38**	**89.15**	**92.08**	**94.38**	**95.29**	**98.37**	**96.73**	**93.15**	**95.50**
	Commercial	3.98	4.29	4.12	4.27	4.07	4.04	4.24	4.21	3.80	3.84	3.79	4.41	4.34	4.19	4.06	4.09	3.79	3.78	4.49	4.66	4.19
	Industrial	5.60	7.32	7.51	8.10	7.63	7.58	7.84	8.24	8.84	8.68	9.17	12.44	12.00	11.34	11.71	12.69	12.57	12.81	13.09	13.27	14.10
	Residential	5.33	5.81	5.56	6.14	5.72	6.15	6.50	6.30	5.97	6.44	6.88	7.31	7.58	7.64	7.27	7.61	7.17	7.86	8.13	7.78	7.91
	Transportation	19.15	19.34	19.59	21.51	21.72	22.41	22.91	22.75	23.88	25.43	25.69	27.02	26.86	26.25	29.26	29.90	30.72	31.50	30.50	29.50	29.94
	Electric Power	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	41.04	42.41	40.52	37.96	39.35
Connecticut		**40.52**	**39.71**	**40.11**	**38.24**	**37.52**	**36.81**	**39.55**	**42.47**	**40.09**	**41.38**	**42.70**	**41.50**	**40.02**	**42.33**	**44.54**	**43.84**	**40.89**	**40.32**	**38.33**	**36.66**	**37.03**
	Commercial	3.80	3.63	4.28	3.82	4.15	3.81	4.10	4.27	4.01	4.27	4.52	4.29	4.10	4.88	3.91	3.73	3.31	3.35	3.40	3.32	3.39
	Industrial	2.94	3.08	3.32	3.38	2.98	2.76	2.89	2.76	2.60	2.66	2.74	2.50	2.41	2.84	2.62	2.65	2.58	2.31	1.96	2.12	1.99
	Residential	8.14	7.88	9.35	8.92	8.53	7.84	8.32	8.07	7.02	7.93	8.67	8.40	8.14	9.49	10.18	9.28	8.03	8.30	8.19	8.28	7.75
	Transportation	14.70	14.58	14.68	14.78	14.66	14.39	15.20	15.24	15.48	16.72	16.21	16.94	16.87	17.37	19.29	18.40	17.62	17.65	16.95	16.46	16.29
	Electric Power	10.94	10.53	8.48	7.33	7.20	8.01	9.05	12.12	10.98	9.81	10.55	9.37	8.50	7.75	8.53	9.77	9.35	8.71	7.83	6.49	7.62
Delaware		**17.70**	**17.54**	**17.52**	**18.92**	**18.28**	**17.62**	**18.26**	**16.98**	**16.26**	**16.48**	**16.69**	**16.03**	**15.89**	**16.51**	**16.51**	**17.30**	**16.17**	**17.08**	**16.25**	**12.03**	**12.16**
	Commercial	0.58	0.58	0.55	0.69	0.61	0.57	0.72	0.70	0.60	0.64	0.63	0.68	0.74	0.79	0.79	0.73	0.73	0.68	0.65	0.84	0.83
	Industrial	4.04	3.05	4.36	4.64	4.78	4.92	4.91	4.80	4.52	4.84	4.58	4.38	3.99	3.82	3.66	3.93	3.64	3.59	3.42	1.50	1.55
	Residential	1.07	1.09	1.16	1.17	1.23	1.17	1.27	1.13	1.06	1.13	1.22	1.17	1.18	1.29	1.22	1.19	0.99	1.01	0.98	1.04	1.06
	Transportation	4.53	5.08	4.70	4.91	4.55	4.31	4.78	4.67	4.71	4.89	5.08	4.70	4.94	4.83	4.96	5.16	5.19	5.23	5.05	4.87	4.55
	Electric Power	7.49	7.75	6.76	7.51	7.12	6.65	6.58	5.69	5.36	4.98	5.20	5.09	5.04	5.78	5.89	6.29	5.62	6.57	6.14	3.78	4.17
District of Columbia		**4.44**	**4.39**	**4.37**	**4.55**	**4.51**	**4.43**	**4.39**	**4.27**	**4.08**	**4.16**	**4.31**	**4.09**	**4.19**	**3.92**	**4.02**	**3.94**	**3.20**	**3.40**	**3.13**	**3.22**	**3.29**
	Commercial	1.24	1.37	1.37	1.44	1.42	1.43	1.43	1.39	1.25	1.23	1.34	1.37	1.32	1.20	1.27	1.33	1.10	1.23	1.15	1.20	1.16
	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	0.06	0.04	0.04	0.04	0.03
	Residential	0.92	0.93	0.99	0.98	0.93	0.96	1.06	0.98	0.83	0.86	0.94	0.80	0.93	0.98	0.95	0.93	0.70	0.82	0.79	0.82	0.83
	Transportation	1.84	1.84	1.86	1.88	1.81	1.79	1.73	1.77	1.72	1.75	1.83	1.69	1.61	1.56	1.67	1.38	1.24	1.22	1.08	1.13	1.08
	Electric Power	0.41	0.23	0.12	0.22	0.31	0.22	0.13	0.09	0.26	0.25	0.17	0.16	0.27	0.08	0.06	0.23	0.10	0.08	0.07	0.04	0.19

Florida	**186.58**	**187.35**	**189.77**	**193.18**	**200.50**	**205.89**	**211.51**	**216.94**	**229.11**	**228.35**	**236.64**	**235.38**	**239.11**	**242.68**	**255.13**	**258.67**	**257.65**	**255.92**	**238.94**	**225.31**	**244.58**
Commercial	6.24	5.97	5.95	4.77	4.34	4.33	4.16	3.63	3.55	3.63	4.80	4.89	5.01	4.91	5.85	5.66	5.18	4.69	4.71	4.87	5.38
Industrial	12.18	11.46	13.06	14.32	15.11	16.35	16.38	15.43	15.69	15.79	14.82	14.03	12.73	13.50	12.62	12.81	12.88	11.68	11.24	10.34	12.60
Residential	1.53	1.57	1.74	1.66	1.56	1.48	1.65	1.36	1.44	1.41	1.51	1.42	1.38	1.40	1.54	1.49	1.42	1.31	1.32	1.42	1.61
Transportation	81.44	77.11	79.86	79.08	84.40	86.57	87.43	90.65	92.09	94.85	100.55	99.12	101.45	99.58	111.07	113.98	116.63	115.70	106.35	99.64	107.07
Electric Power	85.19	91.24	89.17	93.35	95.08	97.17	101.90	105.87	116.35	112.67	114.96	115.91	118.54	123.28	124.04	124.74	121.55	122.55	115.31	109.03	117.93
Georgia	**138.28**	**130.43**	**130.01**	**140.00**	**142.95**	**151.33**	**155.78**	**156.77**	**156.97**	**159.37**	**167.35**	**159.72**	**164.54**	**167.07**	**172.89**	**183.14**	**180.75**	**183.80**	**172.60**	**162.79**	**172.99**
Commercial	3.87	3.62	3.96	4.03	3.92	4.13	4.15	4.07	3.67	3.27	4.14	3.77	3.36	3.41	3.78	3.61	3.21	3.25	3.37	3.56	4.05
Industrial	18.48	18.11	18.35	18.00	18.68	19.66	20.33	19.81	18.41	18.31	19.19	18.58	18.64	19.32	19.53	19.57	18.65	17.37	16.25	14.20	15.32
Residential	5.82	6.17	6.88	7.36	6.74	7.22	7.87	7.25	6.76	6.37	8.71	7.38	7.64	7.89	7.76	7.56	6.66	6.74	7.19	7.13	8.32
Transportation	48.66	47.44	47.93	53.28	53.84	56.41	59.75	57.44	59.47	61.46	61.53	61.42	61.58	63.08	66.41	69.26	68.35	67.08	62.17	65.79	67.89
Electric Power	61.44	55.09	52.88	57.33	59.77	63.91	63.67	68.20	68.66	69.95	73.78	68.58	73.32	73.37	75.41	83.14	83.87	89.36	83.62	72.11	77.42
Hawaii	**21.35**	**19.41**	**20.34**	**18.58**	**19.86**	**19.74**	**18.87**	**18.45**	**18.42**	**18.14**	**18.47**	**18.94**	**20.33**	**21.31**	**22.38**	**22.99**	**23.19**	**24.04**	**19.40**	**18.51**	**18.62**
Commercial	0.75	0.44	0.92	0.33	0.51	0.32	0.24	0.31	1.09	0.27	0.28	0.24	0.31	0.28	0.33	0.33	0.33	0.28	0.30	0.35	0.35
Industrial	2.12	2.02	1.98	1.83	2.02	1.98	2.08	1.97	1.48	1.31	1.34	1.34	1.50	1.52	1.51	1.77	1.80	1.63	1.44	1.42	1.49
Residential	0.05	0.05	0.07	0.04	0.04	0.04	0.04	0.05	0.09	0.06	0.08	0.08	0.08	0.06	0.06	0.06	0.07	0.06	0.09	0.09	0.08
Transportation	11.13	10.88	10.39	9.37	10.05	9.90	8.74	8.41	8.22	8.87	9.02	9.54	10.12	11.70	12.45	12.85	13.04	14.09	9.78	9.07	9.38
Electric Power	7.31	6.03	6.98	7.00	7.23	7.50	7.77	7.71	7.54	7.63	7.75	7.75	8.32	7.74	8.03	7.98	7.96	7.98	7.80	7.59	7.31
Idaho	**11.40**	**12.07**	**11.36**	**12.51**	**12.64**	**13.42**	**13.87**	**13.88**	**14.11**	**14.98**	**15.68**	**15.62**	**15.06**	**14.34**	**15.70**	**15.81**	**15.88**	**16.44**	**15.89**	**15.46**	**16.32**
Commercial	0.80	0.95	0.87	0.84	0.83	0.85	0.97	0.88	0.94	1.08	1.07	1.03	0.98	0.86	0.98	1.00	0.99	1.06	1.12	1.05	1.07
Industrial	3.46	4.01	3.34	3.47	3.56	3.77	3.85	3.63	3.66	3.67	4.18	3.97	3.75	3.39	3.82	3.95	3.44	3.47	3.32	3.28	3.47
Residential	0.79	0.91	0.81	1.01	0.94	0.99	1.09	1.12	1.09	1.35	1.52	1.44	1.42	1.30	1.56	1.55	1.62	1.60	1.82	1.71	1.61
Transportation	6.35	6.20	6.34	7.20	7.31	7.81	7.95	8.16	8.31	8.77	8.81	8.60	8.76	8.27	8.70	8.70	9.30	9.63	8.95	8.74	9.50
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	0.52	0.68	0.67	0.68	0.67
Illinois	**192.92**	**192.92**	**188.96**	**204.73**	**204.67**	**208.82**	**222.95**	**227.07**	**216.39**	**225.74**	**232.97**	**223.68**	**225.97**	**228.33**	**235.47**	**242.45**	**234.80**	**242.75**	**241.28**	**226.27**	**230.70**
Commercial	12.51	11.97	12.21	12.55	12.27	12.49	13.30	12.89	11.03	11.56	12.37	11.75	12.39	12.86	12.19	11.83	11.58	11.83	13.16	13.19	11.66
Industrial	43.94	44.36	44.19	44.22	45.25	45.45	46.75	47.99	45.45	44.98	42.81	38.88	38.35	37.25	36.96	37.58	37.31	37.82	36.32	31.22	35.37
Residential	25.47	26.80	27.08	28.18	26.96	28.42	30.74	28.59	23.55	26.15	26.88	24.30	26.18	26.78	25.07	24.73	22.68	24.67	26.87	25.27	23.92
Transportation	54.38	52.11	52.94	56.14	54.07	55.59	57.64	57.99	59.15	65.32	67.04	64.77	62.67	65.06	69.30	76.99	73.34	73.69	70.34	68.19	67.74
Electric Power	56.63	57.68	52.55	63.63	66.11	66.87	74.52	79.62	77.22	77.73	83.87	83.97	86.38	86.38	91.95	91.33	89.87	94.73	94.59	88.39	92.01
Indiana	**204.77**	**201.16**	**198.56**	**201.90**	**202.08**	**207.19**	**211.88**	**217.10**	**215.53**	**221.28**	**233.45**	**224.34**	**227.67**	**232.82**	**233.92**	**232.62**	**231.30**	**231.11**	**228.06**	**205.80**	**215.80**
Commercial	5.45	5.29	5.48	5.75	5.58	5.67	6.02	5.86	5.52	5.47	6.26	5.64	5.87	6.72	6.39	5.45	4.72	5.08	6.10	5.75	5.37
Industrial	53.90	51.34	50.51	47.30	43.41	45.49	47.64	49.03	48.66	49.95	52.74	54.38	54.07	54.58	56.86	53.42	53.34	52.68	49.90	43.97	48.05
Residential	9.64	9.85	10.06	10.86	10.29	10.35	11.70	11.04	9.11	10.36	10.63	9.44	10.18	11.09	9.65	9.49	8.04	9.04	9.77	8.97	8.71
Transportation	40.87	39.82	39.26	41.30	42.77	43.91	43.17	43.24	43.64	44.52	46.56	42.55	45.87	47.02	45.16	45.42	46.45	45.51	43.17	41.08	42.53
Electric Power	94.91	94.87	93.25	96.69	100.02	101.77	103.35	107.93	108.59	110.97	117.27	112.33	111.67	113.40	115.85	118.85	118.75	118.80	119.11	106.03	111.14
Iowa	**63.91**	**65.98**	**64.57**	**68.44**	**69.50**	**72.94**	**75.48**	**75.04**	**77.19**	**78.11**	**79.00**	**77.87**	**78.48**	**77.91**	**79.64**	**79.77**	**81.12**	**86.90**	**89.44**	**85.00**	**90.25**
Commercial	3.19	3.50	3.13	3.30	2.92	3.16	3.75	3.85	3.35	3.76	3.54	3.52	3.63	3.76	3.47	3.47	3.83	3.93	4.34	4.63	4.45
Industrial	12.74	13.71	14.18	14.73	15.53	15.92	15.96	15.73	15.84	15.97	15.60	15.19	15.05	14.06	14.87	15.02	15.50	17.14	17.62	17.61	19.09
Residential	5.02	5.54	5.20	5.82	5.57	5.75	6.44	6.02	5.06	5.53	5.56	4.90	5.26	5.36	4.85	4.83	4.50	4.83	5.55	5.21	4.89
Transportation	16.32	15.73	15.54	16.20	17.12	17.79	19.06	18.57	19.21	19.06	18.74	18.63	19.24	19.27	20.53	21.25	21.82	22.31	21.54	21.00	21.72
Electric Power	26.65	27.50	26.51	28.38	28.37	30.32	30.28	30.87	33.73	33.79	35.57	35.62	35.30	35.46	35.93	35.20	35.48	38.68	40.39	36.55	40.10
Kansas	**69.60**	**68.46**	**65.88**	**72.29**	**72.51**	**70.27**	**75.29**	**72.03**	**70.16**	**72.94**	**74.92**	**71.08**	**75.49**	**77.50**	**75.61**	**72.18**	**72.16**	**78.32**	**75.32**	**73.22**	**73.20**
Commercial	3.22	3.38	3.12	3.32	3.09	3.22	3.51	2.53	2.54	2.40	2.53	2.44	2.44	2.41	2.33	1.80	1.70	1.85	2.10	2.02	2.04
Industrial	15.88	15.46	16.29	16.19	18.12	14.68	14.65	15.54	13.92	13.66	13.70	12.58	13.34	13.90	13.55	12.12	13.46	15.18	14.04	12.99	13.71
Residential	4.09	4.34	4.03	4.74	4.21	4.42	5.04	4.30	4.34	4.58	4.44	4.23	4.37	4.39	4.06	4.03	3.47	3.91	4.51	4.46	4.51
Transportation	19.30	18.02	17.80	18.12	17.13	19.03	18.90	18.71	18.76	19.84	18.79	17.53	17.88	19.52	19.10	17.88	19.05	19.54	18.95	19.06	18.16
Electric Power	27.11	27.24	24.63	29.92	29.96	28.92	33.19	30.95	30.60	32.46	35.46	34.29	37.46	37.29	36.57	36.36	34.48	37.85	35.71	34.69	34.77
Kentucky	**118.98**	**118.98**	**122.59**	**133.26**	**131.16**	**136.36**	**137.71**	**141.97**	**139.73**	**144.09**	**144.59**	**148.27**	**148.62**	**144.40**	**151.93**	**153.69**	**156.58**	**156.53**	**153.55**	**143.95**	**150.22**
Commercial	2.63	2.77	2.97	3.03	3.15	3.14	3.20	3.41	2.90	3.44	3.17	2.98	3.05	2.95	3.05	3.04	2.46	2.50	2.52	2.34	2.35
Industrial	19.81	18.23	19.24	19.94	19.81	21.29	21.80	20.82	20.22	20.06	19.07	22.17	21.54	20.67	23.37	23.07	24.45	23.37	22.44	20.92	19.58
Residential	4.05	4.35	4.53	4.89	4.65	4.91	5.13	4.97	4.16	4.61	4.64	3.94	4.04	4.30	3.97	3.88	3.25	3.48	3.73	3.65	3.71
Transportation	26.40	26.39	27.59	28.96	28.66	29.76	27.98	30.26	30.27	31.36	31.48	31.95	33.04	31.38	34.46	33.52	33.43	34.98	31.98	32.03	32.68
Electric Power	66.09	67.23	68.27	76.44	74.89	77.26	79.59	82.51	82.19	84.61	86.22	87.22	86.95	85.09	87.08	90.18	93.00	92.20	92.87	85.01	91.90

Louisiana	**201.84**	**200.93**	**208.62**	**213.07**	**219.10**	**219.10**	**224.39**	**233.07**	**218.62**	**216.33**	**230.31**	**207.15**	**214.57**	**209.79**	**216.76**	**211.31**	**221.94**	**214.37**	**200.19**	**190.21**	**210.98**
Commercial	1.90	1.93	1.95	1.78	1.73	1.49	1.56	1.76	1.62	1.76	2.57	1.98	1.94	2.41	2.15	2.05	1.46	2.67	1.58	2.03	1.93
Industrial	113.32	109.77	115.88	118.82	121.20	120.62	124.56	131.81	117.42	115.22	120.92	109.37	113.50	111.44	117.60	112.98	125.67	120.67	110.74	102.90	115.75
Residential	3.11	3.20	3.27	3.25	3.06	3.01	3.30	3.38	3.00	2.90	3.27	3.09	2.92	2.77	2.51	2.48	2.05	2.17	2.21	2.20	2.64
Transportation	48.89	51.33	51.42	51.37	53.93	53.95	59.26	56.63	55.44	55.30	61.00	53.53	54.86	54.29	53.65	51.06	55.01	50.80	45.88	45.44	48.21
Electric Power	34.62	34.69	36.09	37.85	39.17	40.03	35.71	39.50	41.15	41.15	42.56	39.19	41.34	38.88	40.85	42.75	37.76	38.06	39.77	37.64	42.44
Maine	**18.93**	**18.43**	**19.24**	**18.84**	**20.19**	**18.88**	**19.39**	**19.64**	**19.32**	**20.29**	**22.20**	**22.36**	**23.87**	**23.39**	**24.01**	**23.06**	**21.25**	**21.02**	**19.45**	**18.53**	**18.52**
Commercial	2.23	2.20	1.79	1.77	1.80	1.52	1.68	1.65	1.71	1.59	1.89	1.59	1.81	2.26	2.17	2.09	1.81	2.17	2.19	1.85	1.77
Industrial	3.36	3.97	5.32	5.03	6.26	4.88	5.02	4.41	3.72	3.43	4.34	3.53	3.95	2.42	3.42	3.16	3.31	3.36	3.20	2.83	2.85
Residential	2.99	2.99	3.01	3.13	3.20	3.94	4.05	3.92	4.23	4.03	3.90	3.88	3.49	4.67	5.20	4.63	4.03	3.86	3.23	3.00	2.73
Transportation	8.29	7.59	7.48	7.61	7.72	7.31	7.55	7.93	7.74	8.00	8.58	7.66	8.75	9.31	8.71	9.38	9.41	9.06	8.29	8.49	8.60
Electric Power	2.06	1.67	1.64	1.31	1.21	1.23	1.09	1.74	1.92	3.24	3.49	5.69	5.88	4.74	4.51	3.79	2.69	2.57	2.53	2.36	2.57
Maryland	**70.57**	**69.39**	**67.45**	**69.79**	**70.88**	**70.44**	**72.59**	**72.78**	**75.53**	**78.20**	**77.83**	**78.52**	**78.52**	**80.99**	**82.84**	**84.49**	**77.58**	**78.16**	**74.81**	**71.47**	**70.62**
Commercial	2.93	3.53	4.02	3.90	4.28	4.78	4.28	4.22	4.68	4.52	4.69	4.84	4.86	5.29	5.17	4.99	4.56	4.66	4.69	4.78	4.96
Industrial	11.71	9.87	7.13	7.05	7.13	6.87	7.49	7.70	7.30	7.21	6.83	8.58	8.34	7.94	9.08	8.64	6.17	5.64	5.49	4.64	4.57
Residential	6.20	6.26	6.72	7.07	7.02	6.91	7.78	7.05	6.26	6.66	7.19	6.48	6.75	7.38	7.14	7.17	5.90	6.50	6.27	6.52	6.62
Transportation	23.63	24.02	24.61	24.53	24.43	24.79	25.45	26.21	27.00	28.44	28.63	28.79	28.37	29.29	31.13	32.09	32.05	31.68	30.93	31.61	29.94
Electric Power	26.10	25.71	24.96	27.23	28.01	27.09	27.59	27.61	30.30	31.37	30.50	29.84	30.21	31.09	30.32	31.59	28.89	29.68	27.42	23.93	24.52
Massachusetts	**83.04**	**81.84**	**83.83**	**81.18**	**81.34**	**78.68**	**79.33**	**85.38**	**83.19**	**80.80**	**81.98**	**81.80**	**82.73**	**83.70**	**82.63**	**84.14**	**76.41**	**80.02**	**77.31**	**71.17**	**73.17**
Commercial	8.39	9.17	8.93	7.98	8.86	8.95	9.05	9.45	8.07	6.19	6.76	5.75	5.87	7.01	6.51	6.66	5.00	5.35	5.67	5.85	6.79
Industrial	5.57	4.98	6.74	6.94	5.98	5.23	5.23	5.35	5.26	5.93	5.71	6.81	6.67	4.39	4.23	4.50	4.39	4.34	4.01	3.25	3.62
Residential	15.07	14.28	16.38	16.50	16.33	14.74	14.54	14.37	13.18	14.00	15.57	15.93	15.85	16.06	14.92	14.84	12.81	13.53	14.26	14.03	13.79
Transportation	28.93	27.67	27.52	27.90	27.98	28.47	29.79	30.23	30.26	31.04	32.13	31.70	31.84	31.62	33.59	34.05	32.97	33.54	33.56	30.76	30.98
Electric Power	25.09	25.74	24.26	21.85	22.19	21.29	20.72	25.98	26.42	23.65	21.81	21.62	22.52	24.62	23.36	24.09	21.24	23.27	19.81	17.27	17.99
Michigan	**179.22**	**178.01**	**176.81**	**178.26**	**185.49**	**187.73**	**193.20**	**191.09**	**187.92**	**195.76**	**191.76**	**187.83**	**187.60**	**184.72**	**187.24**	**188.49**	**177.82**	**180.97**	**175.03**	**164.20**	**165.69**
Commercial	10.66	10.82	11.03	11.20	11.50	12.17	12.69	12.12	10.34	10.88	11.30	10.67	10.94	11.22	10.81	10.57	9.16	9.96	10.49	10.22	9.36
Industrial	31.36	28.59	28.88	25.23	27.33	27.13	27.67	26.31	24.46	27.74	26.83	25.35	24.10	23.82	24.27	23.89	22.53	20.66	20.13	15.47	18.28
Residential	22.09	22.54	23.49	24.36	23.84	24.82	26.47	25.27	21.46	23.66	24.44	23.56	24.77	25.87	23.95	23.90	20.00	21.05	21.54	20.56	18.94
Transportation	47.94	48.61	49.15	52.28	52.16	53.59	54.27	55.39	56.72	59.19	57.25	56.64	57.82	55.23	56.34	55.82	55.72	55.35	51.53	49.95	50.00
Electric Power	67.16	67.45	64.27	65.20	70.66	70.02	72.09	72.00	74.95	74.29	71.94	71.61	69.97	68.59	71.87	74.30	70.41	73.96	71.34	68.00	69.11
Minnesota	**79.67**	**79.56**	**80.89**	**85.67**	**87.15**	**89.86**	**94.78**	**92.59**	**91.70**	**92.42**	**97.57**	**94.48**	**96.77**	**100.68**	**100.12**	**101.23**	**98.72**	**100.52**	**100.28**	**92.49**	**93.20**
Commercial	5.68	5.45	5.04	5.32	5.46	5.92	6.29	6.16	5.45	5.43	5.82	5.83	6.36	6.41	5.91	6.04	5.89	5.87	6.46	6.30	5.74
Industrial	12.51	11.91	13.17	13.69	13.97	14.35	16.05	15.36	15.32	14.77	15.00	13.51	13.67	13.79	14.21	14.41	14.42	15.37	16.63	14.96	17.18
Residential	8.09	8.86	8.44	9.11	9.01	9.41	10.67	9.63	8.05	8.53	9.31	8.92	9.31	9.78	9.39	9.00	8.16	8.86	9.47	9.02	8.32
Transportation	23.78	24.89	26.18	27.75	28.62	29.66	30.64	30.13	31.64	33.73	35.00	34.21	34.77	34.63	36.05	36.60	36.14	36.47	35.11	32.36	32.93
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	34.12	33.96	32.62	29.85	29.03
Mississippi	**48.49**	**48.29**	**48.36**	**50.71**	**50.41**	**51.78**	**54.59**	**56.07**	**56.67**	**61.36**	**61.00**	**69.33**	**62.24**	**63.22**	**65.15**	**63.54**	**65.82**	**68.16**	**64.41**	**60.59**	**65.69**
Commercial	1.34	1.32	1.35	1.33	1.42	1.37	1.57	1.53	1.51	1.42	1.60	1.63	1.49	1.65	1.47	1.41	1.29	1.76	1.47	1.48	1.55
Industrial	11.90	11.10	11.46	10.90	10.15	10.02	10.41	10.26	9.35	11.72	10.93	10.80	10.86	10.58	11.39	10.52	10.99	11.09	10.63	9.85	10.85
Residential	1.83	1.81	1.85	2.01	1.95	1.88	2.16	2.00	1.84	1.86	2.36	2.41	2.08	1.95	1.78	1.75	1.56	1.61	1.77	1.76	1.95
Transportation	20.21	22.03	22.92	23.06	23.07	23.30	23.56	24.37	24.63	25.98	25.24	24.48	25.02	26.40	25.84	25.33	26.84	26.66	25.37	24.81	25.30
Electric Power	13.19	12.03	10.77	13.42	13.82	15.21	16.89	17.91	19.33	20.38	20.88	30.01	22.79	22.65	24.68	24.54	25.13	27.04	25.17	22.69	26.05
Missouri	**102.60**	**102.84**	**102.59**	**101.58**	**109.18**	**116.72**	**123.20**	**126.89**	**130.09**	**130.50**	**125.12**	**131.17**	**131.61**	**137.96**	**139.83**	**142.69**	**141.72**	**140.64**	**137.91**	**131.28**	**135.47**
Commercial	4.44	4.64	4.48	5.03	4.77	4.74	5.34	5.22	4.48	4.76	4.63	5.19	4.61	4.51	4.55	4.24	3.97	4.01	4.50	4.11	4.05
Industrial	9.71	9.01	9.39	9.72	9.96	10.03	10.19	10.42	10.45	11.49	9.77	11.38	11.57	11.34	13.27	12.88	13.20	12.95	11.78	9.97	10.07
Residential	7.45	7.96	7.67	8.73	8.04	8.23	9.31	8.64	7.25	7.75	7.75	8.46	7.83	7.79	7.29	7.00	6.25	6.70	7.57	6.95	6.96
Transportation	33.79	33.68	34.93	36.07	37.01	38.40	40.46	41.40	45.04	44.39	39.51	39.64	40.60	41.70	40.92	41.79	42.24	42.85	40.56	39.42	39.65
Electric Power	47.21	47.54	46.11	42.04	49.41	55.32	57.90	61.22	62.87	62.11	63.47	66.50	66.99	72.63	73.81	76.78	76.07	74.14	73.50	70.83	74.75
Montana	**28.37**	**29.58**	**30.93**	**28.53**	**31.51**	**31.14**	**28.31**	**30.32**	**31.99**	**32.70**	**31.59**	**31.81**	**30.79**	**32.70**	**34.50**	**35.55**	**35.82**	**37.96**	**36.25**	**32.53**	**34.79**
Commercial	0.89	0.90	0.77	0.87	0.81	0.83	0.95	0.97	0.77	0.74	0.85	0.86	0.91	1.03	1.11	1.13	1.11	0.87	0.99	1.41	1.24
Industrial	4.47	4.31	4.43	4.80	4.95	5.35	5.03	4.62	4.96	5.31	4.75	4.08	4.60	4.68	5.11	5.42	5.93	6.83	6.25	5.02	4.53
Residential	1.25	1.30	1.12	1.33	1.21	1.28	1.47	1.49	1.24	1.24	1.38	1.38	1.45	1.52	1.62	1.60	1.56	1.62	1.76	1.78	1.64
Transportation	5.85	5.78	6.27	6.48	6.74	7.01	6.91	7.07	7.09	7.36	7.47	7.59	7.61	7.16	7.82	8.31	8.56	9.02	7.63	7.37	7.73
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	18.65	19.62	19.62	16.94	19.65

Nebraska	**32.94**	**33.83**	**32.75**	**36.26**	**36.15**	**38.80**	**39.90**	**41.31**	**42.74**	**41.52**	**41.24**	**42.54**	**41.95**	**42.89**	**42.92**	**43.34**	**43.94**	**44.42**	**46.44**	**46.53**	**47.85**
Commercial	2.13	2.28	1.99	1.98	2.23	2.20	2.32	2.08	1.68	1.60	1.76	1.73	1.64	1.72	1.82	1.62	1.68	1.79	2.08	1.87	1.89
Industrial	4.31	4.32	4.49	5.26	5.47	5.51	4.98	5.41	6.21	5.38	5.63	5.88	5.76	5.65	5.93	5.84	6.54	7.35	7.39	7.27	7.81
Residential	2.51	2.74	2.54	2.87	2.67	2.68	3.07	2.88	2.63	2.63	2.77	2.98	2.89	2.76	2.52	2.51	2.34	2.54	2.87	2.68	2.67
Transportation	10.52	10.25	10.61	10.66	10.90	11.56	12.65	12.86	13.48	13.81	12.17	11.47	11.78	11.98	12.27	12.29	12.47	12.62	12.49	11.87	12.66
Electric Power	13.47	14.25	13.12	15.48	14.88	16.86	16.88	18.08	18.74	18.10	18.90	20.48	19.88	20.78	20.39	21.08	20.91	20.12	21.61	22.84	22.83
Nevada	**30.61**	**32.54**	**33.57**	**34.07**	**36.28**	**35.42**	**38.11**	**38.05**	**40.33**	**41.08**	**45.11**	**44.36**	**41.28**	**43.27**	**47.57**	**49.71**	**41.53**	**41.82**	**41.21**	**39.70**	**38.05**
Commercial	1.07	1.15	1.11	1.41	1.43	1.43	1.60	1.37	1.49	1.47	1.63	1.44	1.47	1.47	1.66	1.76	1.84	1.75	1.80	1.79	1.83
Industrial	2.14	2.24	2.52	2.57	2.68	3.06	2.72	2.87	2.75	2.61	2.47	2.44	2.19	1.99	2.52	2.79	2.89	2.85	2.70	2.70	2.76
Residential	1.19	1.29	1.23	1.37	1.39	1.31	1.44	1.60	1.91	1.82	1.83	1.97	1.99	1.97	2.16	2.22	2.28	2.28	2.33	2.34	2.36
Transportation	9.44	9.82	10.03	10.44	11.02	11.43	12.79	12.76	13.09	13.92	14.51	14.52	14.75	15.03	16.11	16.83	18.00	18.29	16.56	14.88	14.40
Electric Power	16.78	18.03	18.69	18.30	19.76	18.19	19.56	19.44	21.09	21.26	24.67	23.99	20.88	22.81	25.12	26.11	16.52	16.65	17.83	18.00	16.70
New Hampshire	**14.58**	**14.24**	**14.37**	**14.87**	**14.93**	**15.03**	**15.27**	**16.52**	**16.52**	**16.69**	**17.34**	**16.83**	**17.54**	**20.66**	**21.80**	**21.12**	**19.27**	**19.14**	**18.97**	**17.26**	**16.92**
Commercial	1.37	1.33	1.20	1.18	1.33	1.22	1.35	1.37	1.21	1.25	1.53	1.39	1.39	1.70	1.87	1.98	1.38	1.43	1.45	1.40	1.27
Industrial	0.79	0.80	1.10	1.33	1.13	1.04	1.03	0.99	0.96	0.95	1.19	1.22	1.11	1.10	1.12	0.97	1.11	0.88	0.84	0.78	0.76
Residential	2.44	2.44	2.55	2.54	2.60	2.73	2.90	2.88	2.81	2.83	2.90	2.82	2.63	3.20	3.36	3.15	2.77	2.77	2.80	2.57	2.29
Transportation	5.22	5.32	5.29	5.40	5.51	5.76	5.92	6.24	6.86	7.11	7.26	7.27	8.14	7.57	7.81	7.37	7.29	7.45	7.34	7.24	7.27
Electric Power	4.76	4.36	4.23	4.41	4.35	4.28	4.07	5.05	4.67	4.55	4.47	4.12	4.28	7.09	7.64	7.65	6.73	6.61	6.54	5.27	5.33
New Jersey	**110.91**	**111.84**	**118.54**	**115.60**	**125.42**	**125.16**	**124.97**	**126.74**	**122.07**	**125.52**	**125.26**	**122.32**	**122.03**	**123.19**	**126.34**	**131.06**	**123.70**	**131.89**	**127.36**	**113.21**	**118.22**
Commercial	10.94	11.04	11.45	10.81	11.05	10.08	11.26	11.55	10.22	11.76	11.03	9.56	9.55	10.60	10.90	11.27	9.54	10.99	10.60	11.15	10.95
Industrial	15.22	15.47	19.47	19.77	20.43	20.72	20.76	20.93	19.81	20.15	13.37	14.54	13.75	14.14	14.37	14.34	13.13	13.00	11.26	9.61	9.18
Residential	15.52	15.49	16.79	16.46	18.29	16.27	17.95	17.21	15.24	16.26	17.02	16.50	15.85	18.35	17.48	16.91	14.17	16.13	15.42	15.64	14.70
Transportation	57.06	57.84	58.13	55.21	60.25	61.16	59.25	59.96	60.93	60.76	64.99	63.13	63.89	62.17	64.73	69.47	68.78	72.57	71.58	62.27	65.77
Electric Power	12.16	12.00	12.69	13.36	15.39	16.93	15.74	17.09	15.88	16.60	18.85	18.59	19.00	17.94	18.87	19.07	18.08	19.20	18.49	14.54	17.62
New Mexico	**52.61**	**48.07**	**50.66**	**51.65**	**51.56**	**50.12**	**52.26**	**55.60**	**55.19**	**56.02**	**57.85**	**58.00**	**55.05**	**57.08**	**58.32**	**58.90**	**59.92**	**58.69**	**57.18**	**58.04**	**54.38**
Commercial	1.66	1.66	1.73	1.73	1.47	1.46	1.59	1.64	1.58	1.67	1.63	1.76	1.74	1.77	1.71	1.69	1.54	1.54	1.73	1.56	1.56
Industrial	7.05	6.52	6.72	6.50	6.55	6.90	8.08	7.33	6.49	6.47	7.76	7.82	7.13	7.70	8.16	7.81	7.84	8.54	8.44	7.83	7.97
Residential	1.97	1.96	1.99	1.95	1.82	1.76	2.05	2.23	2.23	2.32	2.31	2.58	2.35	2.20	2.30	2.27	2.13	2.23	2.26	2.20	2.30
Transportation	14.86	14.62	14.11	14.87	14.13	12.74	12.79	15.49	15.49	15.56	15.28	15.66	15.44	14.99	15.73	15.37	16.03	15.55	14.56	14.11	13.77
Electric Power	27.08	23.31	26.09	26.61	27.59	27.26	27.76	28.90	29.40	30.01	30.87	30.18	28.39	30.43	30.43	31.76	32.37	30.83	30.19	32.34	28.77
New York	**207.70**	**199.89**	**199.26**	**193.97**	**191.89**	**197.51**	**200.22**	**204.94**	**203.27**	**205.89**	**211.55**	**207.43**	**201.80**	**210.71**	**214.74**	**211.45**	**193.92**	**200.64**	**191.72**	**176.56**	**173.83**
Commercial	26.82	26.47	27.53	28.20	27.67	26.92	27.78	29.62	27.69	30.18	32.05	30.65	31.19	32.73	34.69	28.55	25.37	26.65	25.70	25.34	25.02
Industrial	20.25	19.45	20.71	20.33	20.55	22.38	23.14	22.42	21.51	17.82	17.29	16.51	15.07	14.33	14.34	15.14	14.81	14.12	13.66	11.38	10.29
Residential	33.76	33.01	36.39	35.82	35.41	34.38	36.72	34.83	31.74	34.45	39.41	38.36	36.11	38.76	38.24	39.23	32.60	36.39	34.62	32.90	31.73
Transportation	64.11	62.48	61.00	62.22	60.99	62.73	65.91	65.89	66.41	66.80	67.17	67.14	68.77	73.20	75.37	73.75	74.82	74.56	75.16	72.80	69.02
Electric Power	62.76	58.48	53.64	47.40	47.27	51.10	46.66	52.18	55.91	56.65	55.63	54.77	50.65	51.68	52.11	54.77	46.32	48.92	42.58	34.14	37.76
North Carolina	**110.79**	**110.37**	**120.70**	**126.41**	**121.52**	**127.76**	**139.53**	**141.75**	**140.76**	**139.44**	**147.08**	**142.53**	**143.79**	**144.26**	**147.98**	**152.07**	**146.80**	**152.99**	**148.38**	**132.34**	**142.12**
Commercial	3.76	3.57	3.81	3.96	4.32	4.13	4.66	4.46	4.34	4.08	4.57	4.52	4.02	4.83	5.26	5.02	4.58	4.16	4.82	5.21	5.19
Industrial	17.35	16.77	18.45	17.59	16.80	17.99	17.99	17.67	16.72	15.65	16.19	15.42	14.58	13.61	13.95	13.97	13.13	12.41	11.32	10.01	10.70
Residential	5.26	5.37	6.02	6.28	5.93	6.55	7.53	6.86	6.67	6.35	7.15	6.80	6.34	7.18	7.13	6.58	5.66	5.54	5.90	5.78	6.44
Transportation	38.38	37.87	38.62	40.22	41.35	42.95	45.42	46.23	47.30	48.28	49.98	49.21	49.81	50.32	52.26	53.61	53.12	54.93	54.02	48.95	49.09
Electric Power	46.05	46.79	53.80	58.36	53.13	56.14	63.94	66.53	65.74	65.08	69.19	66.59	69.04	68.32	69.36	72.90	70.31	75.94	72.32	62.39	70.69
North Dakota	**40.60**	**42.01**	**43.25**	**43.71**	**44.08**	**43.93**	**44.96**	**43.82**	**44.20**	**45.81**	**47.69**	**48.21**	**48.01**	**47.56**	**46.53**	**49.05**	**47.00**	**49.14**	**49.75**	**47.79**	**48.75**
Commercial	0.85	0.88	0.82	0.87	0.90	0.91	1.01	0.98	0.88	0.89	0.96	0.98	1.01	1.00	1.08	1.13	0.84	1.11	0.99	0.95	0.97
Industrial	6.08	6.14	6.21	6.09	6.52	7.10	6.41	6.62	6.66	6.47	7.72	8.03	7.46	7.42	7.39	7.55	7.62	7.82	8.36	7.48	9.04
Residential	1.12	1.22	1.10	1.14	1.08	1.14	1.30	1.27	1.06	1.16	1.28	1.28	1.25	1.32	1.32	1.26	1.08	1.17	1.30	1.18	1.08
Transportation	4.62	4.68	4.90	5.18	5.11	5.12	5.24	5.33	4.77	5.68	5.56	6.03	6.00	6.03	6.33	6.26	6.23	7.12	6.54	5.95	6.95
Electric Power	27.93	29.08	30.22	30.42	30.47	29.68	30.99	29.63	30.84	31.60	32.17	31.89	32.28	31.79	30.42	32.85	31.24	31.92	32.56	32.23	30.71
Ohio	**245.56**	**243.53**	**247.99**	**252.48**	**248.77**	**251.22**	**264.05**	**260.27**	**257.88**	**256.88**	**262.97**	**253.56**	**259.40**	**265.69**	**261.80**	**267.65**	**261.50**	**268.22**	**261.35**	**237.04**	**247.98**
Commercial	10.58	10.55	11.13	11.15	11.15	11.60	12.79	12.49	10.55	10.87	11.54	11.13	11.09	11.46	11.55	10.95	9.38	10.30	11.00	10.82	10.50
Industrial	50.29	46.10	47.88	44.98	45.24	44.29	44.15	43.09	42.37	42.05	38.87	38.98	37.27	37.90	36.94	35.65	37.15	38.76	38.68	32.81	36.28
Residential	20.57	21.14	22.17	23.10	22.33	23.00	24.32	22.98	19.32	21.32	22.03	19.48	20.51	21.92	20.67	20.47	17.21	18.88	19.17	18.49	17.67
Transportation	56.07	55.39	54.73	57.89	58.33	59.42	62.49	64.29	65.12	66.95	68.87	68.65	69.23	69.36	71.66	71.27	72.07	72.86	68.16	63.88	65.72
Electric Power	108.05	110.35	112.09	115.35	111.71	112.91	120.30	117.43	120.52	115.69	121.66	115.32	121.30	125.05	120.99	129.31	125.69	127.43	124.35	111.03	117.81

Oklahoma	**88.88**	**90.22**	**93.27**	**96.55**	**94.69**	**95.73**	**98.45**	**99.82**	**97.14**	**96.11**	**99.72**	**101.07**	**101.12**	**103.01**	**99.05**	**105.68**	**108.64**	**109.35**	**112.81**	**104.41**	**103.07**
Commercial	2.52	2.52	2.20	2.42	2.16	2.34	2.76	3.17	2.70	2.42	2.55	2.62	2.52	2.26	2.28	2.40	2.21	2.60	2.65	2.73	2.74
Industrial	23.23	20.93	22.12	23.35	22.61	22.83	22.04	22.62	20.57	19.77	18.83	17.86	17.51	19.22	19.68	19.95	21.66	21.26	22.24	19.41	20.50
Residential	3.85	4.04	3.83	4.55	4.05	3.99	4.55	4.25	3.93	3.88	4.21	4.10	4.38	4.13	3.74	3.69	3.36	3.87	4.13	3.89	4.08
Transportation	23.90	24.49	26.43	25.68	26.47	25.23	26.76	26.48	27.06	28.33	30.28	33.14	30.97	31.18	29.10	30.78	31.73	32.50	33.12	29.09	28.78
Electric Power	35.37	38.23	38.68	40.55	39.41	41.34	42.33	43.31	42.88	41.72	43.84	43.34	45.74	46.21	44.24	48.86	49.68	49.12	50.67	49.30	46.97
Oregon	**31.09**	**34.72**	**35.86**	**35.51**	**37.15**	**34.44**	**36.53**	**36.17**	**41.90**	**43.35**	**41.48**	**40.64**	**39.11**	**39.37**	**40.67**	**41.09**	**40.37**	**43.90**	**43.24**	**41.23**	**40.31**
Commercial	1.90	1.88	1.67	1.82	1.73	1.80	1.92	1.91	1.99	2.06	2.10	2.17	2.08	1.75	1.75	1.86	1.85	1.88	2.03	2.06	1.90
Industrial	5.35	5.50	6.20	6.13	6.06	6.51	6.96	7.08	8.15	8.93	6.65	5.54	5.84	5.15	5.53	5.16	5.60	5.30	5.31	4.62	4.44
Residential	2.03	2.17	1.88	2.40	2.34	2.21	2.46	2.36	2.44	2.77	2.73	2.74	2.73	2.56	2.50	2.65	2.68	2.71	2.85	2.89	2.54
Transportation	20.01	21.55	21.59	20.85	21.56	21.20	21.99	22.12	23.12	23.37	22.66	21.67	22.07	21.86	22.86	23.38	23.92	24.50	23.08	22.91	21.79
Electric Power	1.80	3.61	4.51	4.31	5.45	2.72	3.20	2.70	6.19	6.22	7.34	8.52	6.37	8.05	8.03	8.05	6.31	9.52	9.96	8.75	9.64
Pennsylvania	**264.78**	**257.34**	**265.58**	**267.65**	**264.79**	**267.43**	**272.75**	**277.22**	**262.91**	**261.00**	**273.62**	**260.88**	**267.41**	**270.21**	**274.22**	**276.79**	**271.11**	**274.81**	**261.61**	**243.58**	**253.70**
Commercial	13.29	13.26	14.20	13.34	14.41	14.24	14.42	13.70	12.08	12.21	12.95	12.73	12.70	13.34	12.98	12.93	11.78	12.48	11.16	10.85	10.58
Industrial	64.28	58.22	62.37	59.87	59.90	59.80	59.23	61.62	49.26	48.65	48.88	47.62	47.20	48.06	48.17	46.17	46.27	45.59	44.06	35.44	39.20
Residential	23.66	23.88	25.48	26.20	25.85	24.99	26.16	24.72	21.10	23.52	25.70	24.45	23.79	26.09	25.26	23.90	20.26	21.75	20.57	20.09	20.49
Transportation	59.50	59.33	60.63	62.30	62.48	63.20	62.85	65.63	67.75	68.35	70.55	70.40	70.77	69.25	71.43	72.82	72.41	72.18	68.33	66.77	66.86
Electric Power	104.06	102.64	102.89	105.93	102.15	105.20	110.09	111.56	112.71	108.26	115.53	105.68	112.95	113.46	116.39	120.98	120.38	122.81	117.49	110.42	116.58
Rhode Island	**8.91**	**10.80**	**13.05**	**10.87**	**12.84**	**12.10**	**13.53**	**13.62**	**13.86**	**13.20**	**11.75**	**12.30**	**11.73**	**11.45**	**10.97**	**11.22**	**10.55**	**11.14**	**10.82**	**11.40**	**11.16**
Commercial	1.12	1.16	1.08	1.13	1.38	1.26	1.42	1.34	1.15	1.09	1.23	1.26	1.16	1.28	1.21	1.14	0.95	1.05	0.95	1.06	0.93
Industrial	0.66	1.78	2.95	0.98	2.62	2.23	1.81	1.66	2.56	2.14	0.69	0.55	0.52	0.57	0.61	0.62	0.62	0.61	0.54	0.68	0.64
Residential	2.34	2.35	2.78	2.66	2.71	2.50	2.68	2.62	2.39	2.34	2.52	2.59	2.47	2.77	2.80	2.71	2.20	2.29	2.25	2.38	2.27
Transportation	4.13	4.15	4.07	4.10	4.00	4.13	4.17	4.64	4.49	4.67	4.65	4.69	4.65	4.54	4.40	4.37	4.44	4.38	4.20	4.27	4.24
Electric Power	0.66	1.35	2.16	1.99	2.12	1.98	3.44	3.36	3.28	2.97	2.66	3.21	2.93	2.29	1.96	2.39	2.33	2.81	2.88	3.01	3.08
South Carolina	**60.88**	**62.06**	**61.26**	**65.82**	**65.93**	**64.96**	**69.03**	**71.10**	**74.39**	**77.71**	**80.69**	**79.48**	**80.88**	**81.18**	**89.24**	**87.57**	**88.50**	**88.84**	**87.03**	**82.29**	**85.21**
Commercial	1.42	1.40	1.56	1.76	1.66	1.73	1.78	1.73	1.98	2.30	1.80	1.69	1.65	1.67	1.70	1.71	1.82	1.64	1.74	1.58	1.76
Industrial	13.45	13.18	13.71	14.26	13.85	13.65	13.16	13.52	13.80	13.61	13.51	14.28	14.46	14.42	15.04	14.06	13.68	12.47	11.47	10.82	9.74
Residential	2.06	2.25	2.16	2.42	2.19	2.26	2.51	2.26	2.20	2.29	2.43	2.18	2.16	2.32	2.35	2.27	1.95	1.85	1.94	1.93	2.25
Transportation	22.03	22.82	22.03	22.42	22.77	22.77	23.30	24.34	25.75	26.52	27.09	27.37	27.97	28.03	32.22	30.61	32.09	32.21	31.10	31.39	31.61
Electric Power	21.92	22.41	21.81	24.96	25.46	24.56	28.28	29.25	30.66	33.00	35.86	33.97	34.64	34.74	37.93	38.91	38.96	40.68	40.78	36.57	39.84
South Dakota	**11.92**	**11.70**	**11.78**	**12.48**	**13.14**	**12.90**	**12.81**	**13.36**	**12.81**	**13.42**	**14.13**	**13.43**	**13.70**	**13.56**	**13.70**	**13.23**	**13.33**	**13.88**	**15.03**	**14.80**	**15.14**
Commercial	0.69	0.68	0.68	0.75	0.74	0.78	0.82	0.77	0.67	0.67	0.74	0.71	0.71	0.70	0.67	0.66	0.63	0.73	0.79	0.81	0.78
Industrial	2.11	2.02	1.94	2.31	2.47	2.27	2.34	2.32	2.15	2.23	2.55	2.02	2.22	2.27	2.18	2.19	2.14	2.75	3.03	3.16	3.31
Residential	1.36	1.20	1.02	1.24	1.16	1.22	1.46	1.33	1.13	1.10	1.21	1.13	1.17	1.20	1.06	1.04	0.98	1.04	1.21	1.15	1.05
Transportation	4.66	4.44	5.02	5.12	5.44	5.56	5.56	5.41	5.58	5.73	5.83	5.74	6.27	5.82	5.99	6.10	6.13	6.41	6.14	6.33	6.51
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	3.46	2.96	3.86	3.35	3.48
Tennessee	**104.58**	**99.94**	**105.51**	**116.44**	**111.07**	**117.68**	**118.68**	**121.95**	**120.96**	**121.43**	**126.77**	**125.83**	**124.98**	**123.00**	**125.60**	**126.75**	**129.26**	**128.69**	**122.13**	**101.53**	**108.25**
Commercial	3.42	3.39	3.58	3.64	3.53	3.59	4.04	3.86	3.53	3.69	3.89	3.80	3.73	4.03	3.77	3.53	3.39	3.51	3.62	3.67	3.89
Industrial	18.77	18.56	19.96	19.97	20.12	19.79	19.64	20.17	20.59	20.06	19.27	21.18	20.25	20.20	20.31	20.01	20.55	19.91	19.21	14.88	15.70
Residential	3.28	3.43	3.65	3.99	3.94	4.07	4.83	4.40	4.07	4.28	4.80	4.55	4.65	4.62	4.39	4.40	4.07	4.04	4.40	4.34	4.84
Transportation	32.84	31.17	32.56	34.49	35.27	37.15	38.42	38.77	39.67	40.90	41.61	41.41	43.91	44.71	45.24	45.49	45.86	46.21	42.61	40.69	41.70
Electric Power	46.27	43.40	45.77	54.35	48.21	53.09	51.74	54.75	53.10	52.50	57.21	54.88	52.44	49.43	51.90	53.32	55.39	55.02	52.28	37.95	42.13
Texas	**604.43**	**601.17**	**608.66**	**627.44**	**629.70**	**632.07**	**677.91**	**699.47**	**703.14**	**685.01**	**704.92**	**697.34**	**712.93**	**704.10**	**707.38**	**674.80**	**677.87**	**680.67**	**658.02**	**625.74**	**653.24**
Commercial	11.80	11.93	12.10	10.75	11.22	13.02	11.19	13.15	11.17	11.37	13.67	11.82	14.30	14.16	11.88	10.62	9.70	10.15	10.77	11.16	12.20
Industrial	241.71	242.13	248.63	251.62	257.18	260.49	283.01	293.04	284.47	264.33	267.79	261.73	261.77	261.48	265.56	228.41	228.26	223.52	207.36	195.32	211.54
Residential	12.97	13.13	12.70	13.44	12.58	12.12	13.11	13.60	12.09	11.64	12.92	13.96	13.86	13.33	12.12	11.98	10.48	12.44	11.98	11.71	13.67
Transportation	152.47	149.29	152.88	152.31	155.71	153.47	166.77	171.24	180.26	178.87	182.93	190.85	197.65	189.89	193.46	194.87	202.45	205.00	200.58	190.97	195.42
Electric Power	185.49	184.69	182.35	199.32	193.01	192.96	203.82	208.43	215.17	218.80	227.62	218.97	225.35	225.24	224.36	228.91	226.98	229.57	227.33	216.58	220.42
Utah	**53.89**	**52.80**	**54.32**	**55.94**	**56.97**	**57.21**	**58.00**	**60.60**	**62.49**	**61.21**	**63.93**	**61.91**	**61.30**	**61.93**	**64.50**	**66.07**	**67.47**	**69.53**	**69.05**	**64.15**	**63.45**
Commercial	1.67	1.89	1.58	1.70	1.90	1.86	2.02	2.20	2.19	2.22	2.10	2.27	2.58	2.17	2.44	2.31	2.25	2.27	2.43	2.37	2.43
Industrial	9.82	9.19	9.05	8.99	8.98	10.15	9.62	10.21	11.29	8.97	10.35	9.28	6.36	6.58	7.76	8.86	7.92	8.13	7.81	6.71	7.05
Residential	2.75	3.12	2.74	3.11	2.88	2.85	3.10	3.36	3.24	3.22	3.25	3.29	3.53	3.23	3.57	3.39	3.54	3.54	3.88	3.78	3.78
Transportation	10.64	11.07	11.28	11.72	11.90	12.93	13.56	14.15	14.39	14.88	15.72	15.08	15.66	15.81	16.57	16.73	18.51	18.50	17.33	16.52	16.34
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	35.25	37.09	37.60	34.77	33.85

Vermont	**5.49**	**5.68**	**6.14**	**6.22**	**6.04**	**6.01**	**6.29**	**6.51**	**6.27**	**6.52**	**6.75**	**6.61**	**6.35**	**6.55**	**7.05**	**6.82**	**6.68**	**6.56**	**6.13**	**6.32**	**6.03**
Commercial	0.58	0.65	0.74	0.68	0.68	0.59	0.66	0.71	0.76	0.71	0.77	0.79	0.73	0.76	0.83	0.72	0.67	0.68	0.63	0.67	0.64
Industrial	0.46	0.46	0.54	0.55	0.43	0.39	0.41	0.68	0.47	0.64	0.57	0.48	0.47	0.51	0.60	0.59	0.58	0.51	0.51	0.49	0.51
Residential	1.39	1.46	1.59	1.55	1.48	1.43	1.50	1.47	1.40	1.37	1.59	1.58	1.48	1.56	1.78	1.64	1.53	1.51	1.37	1.50	1.33
Transportation	3.01	3.04	3.23	3.41	3.43	3.57	3.71	3.64	3.59	3.76	3.70	3.71	3.66	3.69	3.83	3.87	3.90	3.87	3.61	3.65	3.55
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	0.01	0.01	0.01	0.01	0.01
Virginia	**94.99**	**96.02**	**97.30**	**101.56**	**100.29**	**102.68**	**107.34**	**109.87**	**111.04**	**113.11**	**121.80**	**119.66**	**118.18**	**121.92**	**126.43**	**128.27**	**122.01**	**127.54**	**117.34**	**106.34**	**109.71**
Commercial	4.44	4.20	4.63	5.03	5.09	5.33	6.09	5.63	5.43	5.41	5.89	5.37	5.03	5.74	5.63	5.64	5.02	5.12	4.91	4.88	5.00
Industrial	19.53	19.89	18.76	16.97	17.22	17.34	17.18	17.82	17.31	16.87	16.86	16.49	16.27	17.23	17.63	17.62	16.60	16.89	16.25	12.68	12.91
Residential	6.46	6.35	6.92	7.13	7.05	7.13	8.06	7.71	7.07	7.19	8.21	7.45	7.25	8.21	8.34	8.41	6.96	7.34	7.01	6.95	7.20
Transportation	41.51	40.53	40.35	41.25	41.83	42.55	42.97	44.38	45.10	45.94	48.61	48.65	48.85	50.32	54.72	55.69	56.96	57.21	53.40	51.07	50.91
Electric Power	23.05	25.05	26.64	31.18	29.09	30.33	33.04	34.33	36.13	37.70	42.23	41.70	40.78	40.42	40.11	40.91	36.46	40.98	35.77	30.77	33.70
Washington	**72.17**	**72.63**	**80.83**	**75.95**	**80.91**	**78.81**	**82.35**	**80.02**	**84.97**	**86.23**	**84.57**	**79.63**	**73.35**	**75.10**	**77.57**	**79.29**	**77.49**	**82.86**	**80.67**	**78.34**	**76.64**
Commercial	3.20	3.29	2.76	3.13	3.11	3.19	3.30	3.29	3.10	3.53	3.46	3.89	3.34	3.27	3.14	3.33	3.41	3.43	3.88	3.83	3.84
Industrial	16.97	16.03	18.29	16.16	18.46	17.91	18.96	17.18	22.43	22.88	17.15	13.07	11.67	11.62	12.37	13.44	14.69	14.57	14.98	13.88	12.54
Residential	3.55	3.83	3.49	4.16	4.21	4.11	4.73	4.82	4.73	5.30	5.20	5.99	5.52	4.92	4.89	5.03	5.08	5.24	5.61	5.62	5.12
Transportation	40.95	41.56	46.10	42.23	43.20	45.26	44.65	45.73	43.07	43.90	44.76	42.78	41.50	41.35	43.26	43.56	44.82	47.85	43.54	42.47	42.15
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	9.49	11.77	12.66	12.54	12.98
West Virginia	**103.41**	**95.70**	**97.62**	**98.40**	**106.01**	**104.29**	**106.93**	**110.65**	**112.71**	**114.34**	**113.54**	**103.99**	**116.53**	**112.91**	**110.57**	**112.54**	**112.86**	**115.04**	**110.86**	**89.06**	**98.66**
Commercial	1.97	1.81	1.85	1.83	1.83	1.79	1.96	1.88	1.97	2.09	2.18	1.93	1.67	1.79	1.73	1.75	1.59	1.56	1.57	1.55	1.58
Industrial	18.60	16.20	15.29	15.50	16.39	15.09	13.51	12.30	14.71	13.13	13.22	13.43	14.90	12.62	13.46	12.31	12.55	13.63	13.18	9.51	10.42
Residential	2.41	2.33	2.47	2.54	2.53	2.44	2.66	2.64	2.26	2.40	2.38	2.42	2.21	2.29	2.27	2.13	2.00	1.90	1.94	1.83	1.89
Transportation	10.37	10.24	11.11	11.52	12.11	12.24	11.01	12.03	12.63	12.30	12.70	12.50	12.34	11.68	12.43	12.59	12.54	12.48	11.07	11.34	11.66
Electric Power	70.06	65.11	66.90	67.02	73.16	72.74	77.79	81.80	81.14	84.42	83.06	73.71	85.41	84.53	80.68	83.75	84.18	85.48	83.11	64.85	73.10
Wisconsin	**86.14**	**88.32**	**87.47**	**91.27**	**94.32**	**97.26**	**101.52**	**104.16**	**100.95**	**105.19**	**107.18**	**105.18**	**106.36**	**104.14**	**106.83**	**110.02**	**102.52**	**104.47**	**105.59**	**96.54**	**99.15**
Commercial	4.82	5.02	4.83	5.15	5.11	5.48	6.00	5.91	5.56	5.68	5.61	5.39	5.80	6.08	5.67	6.17	5.28	5.52	6.42	5.80	5.17
Industrial	14.36	14.62	14.54	15.37	15.84	15.90	16.12	16.65	15.47	17.02	17.80	17.00	17.29	15.35	16.13	15.58	14.94	15.10	14.52	12.73	12.89
Residential	9.45	10.14	9.87	10.61	10.15	10.29	11.50	10.37	8.94	10.05	10.24	9.75	10.46	10.57	10.15	9.90	8.91	9.41	10.17	9.29	8.62
Transportation	24.30	24.12	24.66	25.52	26.94	27.48	27.90	28.03	29.63	30.36	29.78	29.64	29.74	29.20	30.75	30.27	30.79	31.08	30.63	29.65	30.36
Electric Power	33.22	34.42	33.58	34.62	36.28	38.11	40.00	43.19	41.36	42.09	43.75	43.40	43.07	42.95	44.13	48.09	42.58	43.36	43.85	39.08	42.10
Wyoming	**57.88**	**56.09**	**61.80**	**58.99**	**61.19**	**58.87**	**60.32**	**59.78**	**63.38**	**61.93**	**62.73**	**63.00**	**61.73**	**63.41**	**63.48**	**62.77**	**63.70**	**66.15**	**66.78**	**63.58**	**64.81**
Commercial	0.86	0.93	0.75	0.97	1.01	0.94	1.30	0.93	0.94	0.91	1.00	1.00	0.94	0.89	0.91	0.85	0.83	0.86	0.86	0.88	0.95
Industrial	10.38	9.91	11.92	10.31	10.62	10.02	10.21	10.38	10.60	9.93	9.75	9.91	10.12	10.17	9.99	9.91	10.87	12.43	12.46	11.84	12.14
Residential	0.82	0.88	0.76	0.88	0.82	0.85	0.94	0.81	0.78	0.76	0.82	0.79	0.91	0.83	0.83	0.81	0.80	0.93	0.96	0.95	0.93
Transportation	5.77	5.30	5.57	5.97	5.86	6.77	6.78	6.89	7.09	8.09	7.61	7.77	7.72	8.38	8.13	8.35	8.63	8.89	8.98	8.43	8.43
Electric Power	40.05	39.08	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	42.58	43.05	43.52	41.47	42.36

*** Emission estimates are based on energy consumption data from EIA's State Energy Consumption, Price, and Expenditure Estimates (SEDS) released Summer 2011 (available online at: http://www.eia.doe.gov/emeu/states/_seds.html).**