

Approved: April 16, 1997
Date

MINUTES OF THE SENATE COMMITTEE ON UTILITIES.

The meeting was called to order by Chairperson Pat Ranson at 1:30 p.m. on March 12, 1997 in Room 531-N of the Capitol.

All members were present except:

Sens. Clark, Morris, Salisbury and Pugh were excused

Committee staff present: Lynne Holt, Legislative Research Department
Fred Carman, Revisor of Statutes
Jeanne Eudaley, Committee Secretary

Conferees appearing before the committee:

Shirley Sicilian, Department of Revenue
Larry Holloway, Chief Electric Engineer, Kansas Corporation Commission
Joe Williams, Rate Design, Kansas Corporation Commission

Others attending: See attached list

Sen. Ranson asked pages assisting the committee today to introduce themselves. They are from Sen. Corbin's district, and she thanked them for assisting the committee.

Sen. Ranson opened the meeting by reading a press release, distributed by Sen. Ranson and Rep. Don Myers, announcing the Joint Senate and House Committee meeting on Tuesday, March 18, regarding review of billing procedures by Western Resources. She also announced the distribution of several magazine and newspaper articles to committee members. Also distributed is the following:

Letter from Louis Stroup with rate data for all electric utilities in Kansas attached, (Attachment 1);
Memo from Robert Badenoch and information requested by Sen. Lee, (Attachment 2).

Sen. Ranson announced the committee will hear information on tax issues and electric rates and introduced the following, who appeared before the committee:

Shirley Sicilian, (Attachment 3);
Larry Holloway, (Attachment 4);
Joe Williams, (Attachment 5).

Committee members questioned Ms. Sicilian as to the meaning of "nexus", and she explained it applies if a company has sufficient presence in Kansas for state taxes to apply. She also discussed the problem of out-of-state suppliers having an advantage over state suppliers and called attention to Roman Numerical "II" and the importance of becoming acquainted with the sales tax and income tax issues.

Mr. Holloway went through numerous graphs, which are attached to his testimony, and called the committees' attention to Tables 23 and 24, which show the planned generating unit additions and the existing capacity and planned capacity additions; also, Table 21 illustrates the existing generating units.

Mr. Williams discussed the outline of the rate setting process for electric and natural gas public utilities from the audit to the decision, which is No. IV and includes public and technical hearings.

Meeting adjourned at 2:30.

Next meeting will be March 13.

SENATE UTILITIES COMMITTEE GUEST LIST

DATE: MARCH 12, 1997

NAME	REPRESENTING
J. C. Long	UtiliCorp Limited Inc.
Jack Williams	KCC
Wig Van Zant	
Don Miles	KCC
B. Sarks	J. Small
H. Randall	Whitney Lawson, FA
Donald P. Schuck	KIOGA
William J. Hitt	
William McWhorter	
Steve Edhoff	ABC
Walter J. Egger	NBC
Conroy Miller	KFB
Larry Williams	KCC
Shirley Siciliano	KD of Revenue
ED SCHAUB	WESTERN RESOURCES
Patrick McWhorter	KCPB
Bruce Graham	KEPCO
Mike Hein	Hein & Weir
Reel Ambree	

SENATE UTILITIES COMMITTEE GUEST LIST

DATE: 3/12/97

NAME	REPRESENTING
Marcus A. Duggan	
Brian Fiedler	
D. Holobras	Western Resources
Rick F. Roloff	Western Resources
Roger Trautwe	KGC
Amy Keenan	
D. D.	Ness City High

Attach. 1



KANSAS
Municipal
Utilities, Inc.

March 10, 1997

Senator Pat Ranson
Chair
Senate Utilities Committee
State Capitol-Room 136-N
Topeka, Kansas 66612

Dear Pat:

The other day in committee, you mentioned that it would be nice to have rate data for all the various electric utilities in Kansas.

Attached is a summary of 1995 average **revenue** per kilowatt-hour compiled by the American Public Power Association showing:

- (1) United States averages by type of ownership
- (2) state averages for municipals, rural electric cooperatives and private power companies and
- (3) individual averages for each utility in Kansas, based on low to high ranking

The report shows average revenue per KWH for residential, commercial and industrial consumer classes, average for all classes, and an "adjusted" average for all classes. The "adjusted" average corrects for compositional differences in the customer classes served.

APPA calculated the report from information each utility reported to the U.S. Department of Energy (Energy Information Administration Form EIA-861). Although these are not actual **rates**, they will closely follow rates and thus provide a comparison of how each utility's rates compare with other utilities in Kansas. The municipal rates do include all their transfers, etc.

I hope this information will be helpful to you and your committee.

Cordially,

Louis Stroup, Jr.
Executive Director

TO IMPROVE
AND PROTECT
SINCE 1928

P.O. BOX 1225
McPherson, KS
67460
316-241-1423

Senate Utilities
3-12-97
Att. 1

Revenue per Kilowatt-hour, 1995
(in cents)

State	Residential			Commercial			Industrial		
	Publicly Owned	Investor-Owned	Coop	Publicly Owned	Investor-Owned	Coop	Publicly Owned	Investor-Owned	Coop
Total	6.7	8.9	7.7	6.7	7.9	7.3	4.7	4.8	4.5
Alabama	5.8	6.9	7.0	6.7	6.7	7.5	4.7	4.1	4.3
Alaska	11.3	11.8	11.1	9.3	16.0	9.3	10.2	7.8	8.1
Arkansas	6.5	8.6	7.4	6.5	6.9	6.9	4.3	5.1	3.2
Arizona	8.3	9.6	9.9	7.0	8.8	8.8	4.6	6.0	4.0
California	9.1	12.3	9.3	8.9	10.9	10.2	7.5	7.3	6.1
Colorado	6.1	7.6	7.9	5.5	6.0	7.1	4.2	4.5	4.9
Connecticut	9.0	12.1	-	8.6	10.4	-	5.9	8.3	-
Delaware	9.2	9.0	9.2	8.9	6.8	8.4	6.3	4.4	6.3
Florida	7.6	7.8	8.2	6.6	6.3	7.5	6.0	4.8	6.3
Georgia	7.2	7.7	8.2	6.8	7.3	8.2	4.4	4.5	4.8
Hawaii	-	13.3	-	-	12.2	-	-	9.3	-
Idaho	4.6	5.3	6.4	5.1	4.4	5.6	3.7	2.7	3.6
Illinois	6.9	10.6	10.4	6.4	8.0	8.5	5.7	5.3	5.6
Indiana	6.2	6.7	7.1	6.0	5.9	6.4	4.8	3.8	5.1
Iowa	6.3	8.6	8.4	5.8	6.5	6.9	4.6	3.8	5.0
Kansas	7.4	7.7	9.9	6.5	6.4	9.6	4.3	4.7	6.4
Kentucky	5.5	5.2	6.3	5.1	5.1	6.3	4.5	2.8	3.5
Louisiana	6.9	7.2	7.9	6.5	6.8	7.7	6.3	3.9	6.1
Maine	7.5	12.6	13.6	7.0	10.3	12.0	5.8	6.7	6.1
Maryland	6.3	8.4	8.5	6.2	6.9	7.6	5.2	4.2	6.2
Massachusetts	9.0	11.6	-	9.8	9.9	-	8.5	8.4	-
Michigan	6.8	8.4	9.2	7.0	7.9	8.7	5.5	5.1	6.9
Minnesota	6.3	7.4	7.1	6.1	6.2	6.2	4.7	4.2	4.7
Mississippi	6.0	7.5	6.7	6.4	7.0	7.2	5.0	4.7	5.3
Missouri	6.3	7.5	7.1	5.5	6.3	6.2	4.8	4.7	3.5
Montana	5.3	5.8	6.7	4.9	5.1	6.1	6.9	4.0	4.5
North Carolina	9.0	7.6	9.3	7.8	6.1	8.1	6.2	4.7	5.6
North Dakota	4.5	6.1	6.5	4.1	6.1	6.8	3.8	4.3	4.8
Nebraska	6.4	-	6.8	5.5	-	7.4	3.8	-	7.3
Nevada	4.7	7.2	6.9	5.1	6.9	6.2	1.7	5.6	4.1
New Hampshire	10.1	13.5	14.0	9.9	11.3	13.0	7.9	9.6	8.0
New Jersey	9.3	12.0	11.9	9.4	10.2	12.9	7.9	8.2	11.1
New Mexico	8.5	8.6	10.6	8.0	7.9	8.0	5.1	4.2	4.8
New York	3.9	14.3	8.1	4.4	12.1	8.9	2.2	6.8	7.0
Ohio	6.9	8.8	7.3	6.9	7.7	7.2	4.4	4.2	4.0
Oklahoma	7.2	6.5	7.6	6.9	5.5	7.2	4.0	3.6	4.6
Oregon	4.7	5.6	5.9	4.3	5.2	5.6	3.2	3.8	4.4
Pennsylvania	8.3	9.7	10.8	8.1	8.3	9.9	6.2	5.9	8.3
Rhode Island	10.4	11.5	-	12.5	10.1	-	11.8	8.9	-
South Carolina	7.0	7.4	7.9	6.5	6.2	7.6	3.4	4.2	4.2
South Dakota	4.7	7.5	7.4	5.0	6.7	6.9	4.0	4.5	4.2
Tennessee	5.9	5.0	6.1	6.6	5.0	7.3	4.9	3.5	5.1
Texas	6.9	7.9	7.6	6.4	6.6	7.1	4.6	3.9	4.9
Utah	6.7	7.0	7.2	6.2	5.8	6.5	4.5	3.7	5.9
Vermont	9.6	10.6	11.7	10.3	9.7	12.6	10.7	6.7	9.1
Virginia	6.2	7.8	8.8	5.6	6.0	8.6	4.6	4.1	4.8
Washington	4.3	5.7	5.6	3.9	5.9	4.8	2.7	4.4	4.0
Washington, DC	-	7.6	-	-	7.1	-	-	4.4	-
West Virginia	6.7	6.5	8.6	6.6	5.9	9.5	5.7	4.0	**
Wisconsin	5.6	7.0	7.6	5.7	5.8	6.9	4.1	3.7	4.4
Wyoming	6.4	5.9	6.4	5.6	4.9	4.7	4.8	3.3	5.0

** Computation error.
- Data not available.

1995 Revenue per Kilowatt-hour Comparisons for Kansas Utilities

Residential Rates (in Cents)

Publicly Owned

Radium City of	2.36
McPherson City of	4.71
Anthony City of	6.12
Attica City of	6.16
Augusta City of	6.43
Kansas City City of	6.46
Kingman City of	6.50
Osage City City of	6.56
Colby City of	6.59
Beloit City of	6.60
Iola City of	6.70
Severance City of	6.73
Oxford City of	6.78
Russell City of	6.85
Chanute City of	6.86
Lincoln Center City of	6.89
Altamont City of	6.98
Cawker City City of	7.03
Mankato City of	7.07
Winfield City of	7.12
Coffeyville City of	7.21
Morrill City of	7.24
Goodland City of	7.26
Summerfield Town of	7.27
Hoisington City of	7.27
Pomona City of	7.28
Clay Center City of	7.29
Sabetha City of	7.30
Seneca City of	7.41
Minneapolis City of	7.42
Oakley City of	7.46
Moran City of	7.49
Chetopa City of	7.50
Burlington City of	7.55
Axtell City of	7.57
Eudora City of	7.61
Marion City of	7.63
Mulvane City of	7.64
Greensburg City of	7.69
Pratt City of	7.72
Erie City of	7.72
Gardner City of	7.74
Jetmore City of	7.75
Holton City of	7.79
Montezuma City of	7.80
St Marys City of	7.80
Lucas City of	7.87

Residential Rates

(in Cents)

Garnett City of	7.88
Robinson City of	7.91
Scranton City of	7.95
Holyrood City of	7.97
Ashland City of	8.02
Wellington City of	8.03
Osborne City of	8.05
Udall City of	8.13
Moundridge City of	8.14
Troy City of	8.15
Stockton City of	8.21
Belleville City of	8.24
Garden City City of	8.25
Lindsborg City of	8.25
Herington City of	8.28
Hillsboro City of	8.30
Cimarron City of	8.31
Wamego City of	8.31
Neodesha City of	8.33
Galva City of	8.37
Ottawa City of	8.37
Vermillion City of	8.38
Alma City of	8.46
Horton City of	8.49
Johnson City of	8.51
Blue Mound City of	8.52
Iuka City of	8.55
Bronson City of	8.58
Toronto City of	8.60
Muscotah City of	8.63
Enterprise City of	8.69
Mount Hope City of	8.71
Glen Elder City of	8.73
Norton City of	8.79
Prescott City of	8.80
Hugoton City of	8.91
Glasco City of	8.92
Washington City of	8.93
Wathena City of	8.93
Larned City of	9.03
Waterville City of	9.08
Burlingame City of	9.08
Baldwin City City of	9.09
Elsmore City of	9.18
Isabel City of	9.20
Sterling City of	9.23
Kiowa City of	9.33
La Harpe City of	9.35
Oberlin City of	9.38
Girard City of	9.45

Residential Rates

(in Cents)

La Crosse City of	9.58
Centralia City of	9.62
Haven City of	9.66
St John City of	9.78
Meade City of	9.79
Luray City of	9.86
Savonburg City of	10.00
Mulberry City of	10.03
Ellinwood City of	10.08
Osawatomie City of	10.10
Fredonia City of	10.14
Stafford City of	10.36
Chapman City of	10.99
St Francis City of	11.24
Dighton City of	11.70
Arcadia City of	11.74
Hill City City of	11.82
Sharon Springs City of	12.03
Herndon City of	12.54
Arma City of	12.65
Seward City of	12.93
Lakin City of	13.20
Elwood City of	13.32

Cooperatives

Alfalfa Electric Coop Inc	7.25
Nemaha-Marshall E C A Inc	7.33
Doniphan Elec Coop Assn Inc	7.65
Midwest Energy Inc	8.22
D S & O Rural E C A Inc	8.59
Kaw Valley Elec Coop Co Inc	8.65
Sedgwick Cnty El Coop Assn Inc	9.40
Victory Electric Coop Assn Inc	9.42
C & W Rural Elec Coop Assn Inc	9.71
Brown-Atchison E C A Inc	9.83
CMS Electric Coop Inc	9.90
Jewell-Mitchell Coop Elec Inc	9.96
Western Coop Electric Assn Inc	10.20
Lyon County Electric Coop Inc	10.20
Ninnescah Rural E C A Inc	10.22
Pioneer Electric Coop Inc	10.43
Radiant Electric Coop Inc	10.49
Leavenworth-Jefferson E C Inc	10.55
Flint Hills Rural E C A Inc	10.56
Sekan Electric Coop Assn Inc	10.61
Butler Rural El Coop Assn Inc	10.76
Smoky Hill Elec Coop Assn Inc	10.76
Lane-Scott Electric Coop Inc	10.81
Norton-Decatur Coop El Co Inc	10.99
Wheatland Electric Coop Inc	11.02

Residential Rates

(in Cents)

United Electric Coop Inc	11.23
Sumner-Cowley Elec Coop Inc	11.41
Northwest Kansas E C A Inc	11.48
Ark Valley Elec Coop Assn Inc	11.63
Caney Valley El Coop Assn Inc	11.93
N C K Electric Coop Inc	11.95
P R & W Electric Coop Assn Inc	11.99
Twin Valley Electric Coop Inc	12.49

Investor-Owned Utilities

Empire District Electric Co	6.12
Western Resources, Inc	6.45
Southwestern Public Service Co	6.47
Kansas City Power & Light Co	7.49
UtiliCorp United Inc	7.88
KG&E a Western Resources Co	9.29

Source: Form EIA-861 for 1995.

1995 Revenue per Kilowatt-hour Comparisons for Kansas Utilities

Commercial Rates (in Cents)

Publicly Owned

Radium City of	3.00
Seward City of	4.44
McPherson City of	4.52
Chetopa City of	4.75
Iola City of	5.35
Axtell City of	5.38
Pomona City of	5.77
Kansas City City of	5.78
Minneapolis City of	5.92
Augusta City of	6.04
Glen Elder City of	6.09
Colby City of	6.15
Coffeyville City of	6.18
Kingman City of	6.20
Moran City of	6.30
Anthony City of	6.33
Pratt City of	6.37
Chanute City of	6.38
Greensburg City of	6.43
Attica City of	6.46
Osage City City of	6.55
Holton City of	6.57
Seneca City of	6.66
Jetmore City of	6.66
Erie City of	6.69
Oxford City of	6.70
Belleville City of	6.80
Winfield City of	6.93
Iuka City of	6.95
Scranton City of	6.97
Gardner City of	6.99
Russell City of	6.99
Burlington City of	7.02
Moundridge City of	7.12
Ashland City of	7.16
Prescott City of	7.21
Oakley City of	7.24
Beloit City of	7.26
Herington City of	7.34
Clay Center City of	7.38
Sabetha City of	7.39
Garnett City of	7.55
Arma City of	7.57
Summerfield Town of	7.57
Waterville City of	7.60
Lincoln Center City of	7.72
Mulvane City of	7.72

Commercial Rates

(in Cents)

Larned City of	7.73
Eudora City of	7.74
Garden City City of	7.74
Bronson City of	7.75
Troy City of	7.76
Wellington City of	7.76
Enterprise City of	7.78
Haven City of	7.85
Cimarron City of	8.02
Wathena City of	8.04
Alma City of	8.09
Norton City of	8.14
Robinson City of	8.16
Lindsborg City of	8.18
Neodesha City of	8.21
Stockton City of	8.22
Ottawa City of	8.23
Hillsboro City of	8.26
Galva City of	8.32
Hoisington City of	8.35
St Marys City of	8.45
Udall City of	8.50
Horton City of	8.50
Baldwin City City of	8.57
Johnson City of	8.59
Mankato City of	8.59
Burlingame City of	8.66
Osawatomie City of	8.71
Washington City of	8.80
Wamego City of	8.87
Goodland City of	8.89
Glasco City of	8.91
Lucas City of	8.93
Oberlin City of	9.00
Centralia City of	9.12
Vermillion City of	9.16
Luray City of	9.17
St John City of	9.24
Muscotah City of	9.30
Toronto City of	9.38
Marion City of	9.46
Sterling City of	9.52
Montezuma City of	9.52
La Crosse City of	9.53
La Harpe City of	9.56
Girard City of	9.56
Holyrood City of	9.63
Meade City of	9.88
Osborne City of	9.97
Mulberry City of	9.97

Commercial Rates

(in Cents)

Ellinwood City of	10.06
Fredonia City of	10.13
Hugoton City of	10.53
Arcadia City of	10.64
St Francis City of	10.72
Stafford City of	10.76
Mount Hope City of	10.83
Hill City City of	10.99
Dighton City of	11.21
Herndon City of	11.29
Isabel City of	11.35
Sharon Springs City of	11.50
Morrill City of	11.63
Cawker City City of	12.26
Lakin City of	12.70
Savonburg City of	12.73
Kiowa City of	12.97
Elsmore City of	16.67
Chapman City of	17.82
Elwood City of	21.00

Cooperatives

Doniphan Elec Coop Assn Inc	7.53
Nemaha-Marshall E C A Inc	7.76
Kaw Valley Elec Coop Co Inc	8.07
Sekan Electric Coop Assn Inc	8.20
Radiant Electric Coop Inc	8.20
D S & O Rural E C A Inc	8.24
Midwest Energy Inc	8.26
Alfalfa Electric Coop Inc	8.46
Butler Rural El Coop Assn Inc	8.71
Victory Electric Coop Assn Inc	8.89
N C K Electric Coop Inc	8.92
CMS Electric Coop Inc	8.93
Flint Hills Rural E C A Inc	9.09
Lane-Scott Electric Coop Inc	9.31
Ninnescah Rural E C A Inc	9.37
Sedgwick Cnty El Coop Assn Inc	9.41
Smoky Hill Elec Coop Assn Inc	9.54
Pioneer Electric Coop Inc	9.76
P R & W Electric Coop Assn Inc	9.96
United Electric Coop Inc	10.29
Sumner-Cowley Elec Coop Inc	10.30
Norton-Decatur Coop El Co Inc	10.30
Jewell-Mitchell Coop Elec Inc	10.38
Lyon County Electric Coop Inc	10.53
Ark Valley Elec Coop Assn Inc	10.86
Brown-Atchison E C A Inc	10.93
Twin Valley Electric Coop Inc	11.12
Leavenworth-Jefferson E C Inc	11.17

Commercial Rates

(in Cents)

Wheatland Electric Coop Inc	11.17
Northwest Kansas E C A Inc	11.26
Caney Valley El Coop Assn Inc	11.46
C & W Rural Elec Coop Assn Inc.	12.52

Investor-Owned Utilities

Western Resources, Inc	5.04
Southwestern Public Service Co	6.16
Empire District Electric Co	6.42
Kansas City Power & Light Co	6.83
UtiliCorp United Inc	7.18
KG&E a Western Resources Co	8.19

Source: Form EIA-861 for 1995.

1995 Revenue per Kilowatt-hour Comparisons for Kansas Utilities

Industrial Rate (in Cents)

Publicly Owned

McPherson City of	2.90
Herington City of	3.09
Iola City of	3.69
Kansas City City of	4.00
Erie City of	4.14
Holton City of	4.26
Minneapolis City of	4.33
Winfield City of	4.43
Chanute City of	4.57
Gardner City of	4.74
Kingman City of	5.22
Beloit City of	5.40
Oakley City of	5.46
Clay Center City of	5.66
Colby City of	5.76
Burlington City of	5.87
Wellington City of	5.88
Wamego City of	5.94
Sabetha City of	6.03
Attica City of	6.14
Russell City of	6.20
Johnson City of	6.30
Kiowa City of	6.42
Osage City City of	6.48
Girard City of	6.72
Meade City of	6.78
Neodesha City of	6.81
Ottawa City of	6.83
Seneca City of	6.92
Moundridge City of	6.93
Larned City of	7.09
Lincoln Center City of	7.10
Mankato City of	7.14
Garnett City of	7.23
Elwood City of	7.31
Osborne City of	7.47
Enterprise City of	7.57
Eudora City of	7.59
Hoisington City of	7.65
Alma City of	7.67
Horton City of	7.73
Goodland City of	8.18
Marion City of	8.33
La Crosse City of	8.40
Osawatomie City of	10.04
Oxford City of	10.70
Sharon Springs City of	11.15

Industrial Rate

(in Cents)

Cimarron City of	11.44
Lakin City of	12.83
Arma City of	15.15

Cooperatives

Jewell-Mitchell Coop Elec Inc	5.02
Ninnescah Rural E C A Inc	5.04
Victory Electric Coop Assn Inc	5.16
Wheatland Electric Coop Inc	5.35
C & W Rural Elec Coop Assn Inc	5.82
Pioneer Electric Coop Inc	6.01
Midwest Energy Inc	6.52
Kaw Valley Elec Coop Co Inc	6.94
Lyon County Electric Coop Inc	7.03
D S & O Rural E C A Inc	7.24
Smoky Hill Elec Coop Assn Inc	7.93
Ark Valley Elec Coop Assn Inc	8.21
Western Coop Electric Assn Inc	8.49
Northwest Kansas E C A Inc	9.20
CMS Electric Coop Inc	11.48
Sedgwick Cnty El Coop Assn Inc	11.66
N C K Electric Coop Inc	12.84

Investor-Owned Utilities

Southwestern Public Service Co	3.78
UtiliCorp United Inc	3.91
Western Resources, Inc	4.14
Empire District Electric Co	4.59
KG&E a Western Resources Co	5.17
Kansas City Power & Light Co	5.34

Source: Form EIA-861 for 1995.

1-12

Robert M. Badenoch, Chief
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Division of Property Valuation

TO: Mark S. Beck, Director
Division of Property Valuation

FROM: Robert M. Badenoch, Chief
State Appraised Property Bureau

DATE: Tuesday, March 11, 1997

SUBJECT: Information response stemming from question raised by Senator Lee in the "Senate Utilities Committee" on 3/10/97.

In accordance with your instructions to provide the "Senate Utilities Committee" with any information we have available, I am submitting the following in response to a request by Senator Lee for information on the relative level of utility property taxes. This memorandum will be forwarded to Senator Pat Ranson, Chairperson "Senate Utilities Committee" and to Senator Lee.

The following chart was requested by the Department of Revenue's secretary of revenue and was submitted to the "Special Committee on Property Taxation" on September 25, 1996. Columns 5 and 6 represent a nine state comparison of property taxes for "unit valued" utility properties. The study was conducted by the Division of Property Valuation, State Assessed Property Bureau's Utility Section. The companies selected represent all of the utility companies that Kansas has in common with the comparison state. The study took actual property tax dollars imposed on the common companies over the "allocated unit market values" within those states for those companies. This process negates the influence of assessment rates and mill levies, thus it is an "apples to apples" comparison. Columns 1 through 4 represent a market value comparison for the same set of companies.

Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6
Tax Year 1995 States	NO. of Co. in study	Market Value Comparison KS/Other State	Assessment Ratio	Tax dollars per 1,000,000 of Market Value	Other States tax compared to \$1.00 of Kansas Tax
Arkansas	12	0.836	0.2000	8,300.00	\$ 0.25
Oklahoma	47	0.873	0.2197	17,576.00	\$ 0.52
S. Dakota	8	0.957	0.8550	23,800.00	\$ 0.70
Nebraska	28	0.970	1.0000	24,367.00	\$ 0.72
Wisconsin	6	0.990	1.0000	28,394.00	\$ 0.84
Kansas	66	1.000	0.3300	33,858.00	\$ 1.00
KS Railroads			0.1645	19,641.00	\$ 0.58
Michigan	3	1.016	0.5000	24,540.00	\$ 0.72
Missouri	36	1.019	0.3220	18,700.00	\$ 0.55
N. Dakota	8	1.060	0.0500	17,300.00	\$ 0.51
Minnesota	7	1.072	0.0460	5,980.00	\$ 0.18

The total general ad valorem taxes assessed for public utility property in Kansas for the tax year 1995 was \$292,512,259 or 15.19% of all ad valorem taxes levied and 10.16% of all the appraised valuation.

Senate Utilities
3-12-97
Att. 2

Shirley K. Sicilian, Director
Office of Policy & Research
Kansas Department of Revenue
915 SW Harrison St.
Topeka, KS 66612-1588



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FAX (913) 296-7928

Office of Policy & Research

MEMORANDUM

TO: Senator Ranson, Chair
Senate Utilities Committee

FROM: Shirley Klenda Sicilian
Kansas Department of Revenue

DATE: March 12, 1997

SUBJECT: Possible Tax Implications of Retail Wheeling

Senator Ranson, and members of the Senate Utilities Committee, thank you for this opportunity to present information on potential tax implications of retail wheeling. Other members of the department have already testified regarding property tax implications. My testimony covers sales and income tax issues and their revenue implications.

I. Sales Tax Issues.

a. Background.

- State sales and use tax is imposed at a rate of 4.9% on sales of electricity to retail customers. (K.S.A. 79-3603 (c)).
- In fiscal year 1996, businesses classified as electric, or gas and electric, utilities remitted \$22.8 million in state taxes, which is a little less than 2% of all sales tax collections.
- There are at least five tax exemptions which apply to different types of electricity sales. Four are contained in K.S.A. 79-3606(w) which exempts electricity sold 1) to residential consumers, 2) for agricultural use, 3) for use in severing oil, and 4) to properties exempt from property tax under 79-201b *second* (certain housing for children, handicapped, and the elderly). K.S.A. 79-3606(n) exempts sales of electricity consumed in the production of tangible personal property. In addition, the retail sales tax is not imposed on wholesale electric sales which are considered sales for resale.
- Some governments impose sales tax in addition to the state sales tax. The rates vary by jurisdiction, with the top rate at 2%. Local governments utilize the same tax base as the state and must provide the same exemptions as the state, with two significant exceptions: Residential and agricultural electricity sales are both taxed at the local level even though they are exempt at the state level. (K.S.A. 12-189a). We do not track the local revenues from tax on electric utilities. However, we roughly estimate these revenues could be approximately \$15 million in fiscal year 1996.

Senate Utilities
3-12-97
Att. 3

b. The Sales Tax Nexus Question, and its Implications for Competition.

The most prominent sales tax issue related to retail deregulation turns on the question of "nexus." A company has "nexus" in Kansas if its presence in the state is sufficient for state taxes to apply. Without sufficient nexus, taxation by the state could violate the due process or commerce clause provisions of the U.S. constitution. For example, a 1992 decision by the U.S. Supreme court reaffirmed that in-state presence of an out-of-state seller through retail outlets, property, or personnel satisfies the Commerce Clause requirement. (*Quill Corp. V. North Dakota*, 504 U.S. 298, 112 S.Ct. 1904 (1992)). But the Court also set limits for state taxation. After *Quill*, a company can not be required to collect and remit sales tax if the company has no connection to the state other than through the U.S. mail or common carrier.

Under the current case-law, it's clear an electric generator located in Kansas, selling to a Kansas consumer, has sufficient nexus for Kansas sales tax to apply. However, deregulation will allow consumers to purchase from out-of-state generators. When a Kansas consumer purchases from an out-of-state generator that owns no transmission or distribution in Kansas, it is not clear there will be sufficient nexus for Kansas sales tax requirements to apply.

In many cases where there is not sufficient nexus for sales tax to apply, the Kansas "compensating use" tax would apply. (K.S.A. 79-3700 et. Seq.). The state use tax is imposed on the consumer for use of a good in Kansas in all cases where the good was not subject to sales tax when it was purchased. One main purpose of enacting the use tax in the 1930's was to level the competitive playing field in situations very analogous to what we would find under deregulation. There are two reasons why the use tax may not provide a perfectly level playing field. First, with the exception of motor vehicles and boats, there is no local use tax. Thus, to the extent local taxes are due on in-state sales, there may still be an advantage for out-of-state firms with insufficient nexus. Second, the experience with mail order companies is that not all consumers are aware they owe the use tax and therefore many perceive a price difference between the out-of-state company and the Kansas company based just on the absence of sales tax. If electricity consumers perceive a price difference, the out-of-state supplier would have an advantage in Kansas. (Because these issues are the same for all states, the Kansas supplier would likewise have the same advantage in other states.)

Table One summarizes the effect of the exemptions and use tax requirements in Kansas on different types of utility consumers.

c. Pricing Issues and the Effect on the Sales Tax Base.

Currently the utility price to which tax is applied includes cost recovery for generating plant which may become stranded investment under deregulation. To the extent stranded investment costs could be recovered in a manner other than through electricity prices, it is not clear that sales tax would continue to be applicable. There is a similar effect from public service program costs to the extent these costs are currently recovered in utility pricing but would be financed in some other manner after deregulation. Both these possibilities result in reduced state sales and use tax receipts.

d. Estimating the Effect of Deregulation on Sales Tax Receipts.

Under deregulation, prices may drop and Kansas consumers may purchase more electricity. But this doesn't tell us whether sales tax receipts will go up or go down. Receipts may go down if:

- the price decrease is not offset by increased sales, or
- the market share of out-of-state companies without nexus increases more than the growth in total sales.

II. Income Tax Issues.
a. Background.

Income tax receipts from electric utility companies vary significantly from year to year. A recent high may be approximately \$10 million.

b. Apportionment and the Effect of Increased Multi-state Sales on Income Tax Receipts.

Corporate income tax receipts may also be effected by deregulation. The Kansas income tax base for multi-state corporations is determined by first determining how much business income is attributable to Kansas. This is accomplished by apportioning the firm's total business income between Kansas and all other jurisdictions. A three factor formula is generally used to make the apportionment. The factors are property, payroll and sales. Currently, utilities do make out of state sales if they are a multi-state retailer. If deregulation will cause out-of-state sales to increase relative to total sales, the sales factor will reflect that and the Kansas income tax base will shrink. A possible offsetting effect to the "shrinking share" potential would be a "bigger pie" potential. If deregulation causes price decreases, sales and profits may increase for the relatively efficient firms. If Kansas firms are among the more efficient firms, there could be an increase in income subject to apportionment. However, if prices in Kansas rise relative to national average prices, increased sales may take place largely outside of Kansas and the amount of the increased income apportioned to Kansas could drop.

Some nexus issues may also apply to Kansas income tax for out-of-state utilities selling in Kansas.

3-4

	Residential		Commercial		Industrial		Industrial (Cons in Prod)		Ag Use		Oil Severance	
	Nexus	No Nexus	Nexus	No Nexus	Nexus	No Nexus	Nexus	No Nexus	Nexus	No Nexus	Nexus	No Nexus
State Sales 4.9%			X		X							
State Use 4.9%				X		X						
Local Sales (assume 1%)	X		X		X				X			
Total	1.0%	0.0%	5.9%	4.9%	5.9%	4.9%	0.0%	0.0%	1.0%	0.0%	0.0%	0.0%

BEFORE THE SENATE UTILITIES COMMITTEE

**Discussion of Kansas and National Electric Rates
Larry Holloway, Chief of Electric Operations
Kansas Corporation Commission Staff**

- I) Kansas Residential Customer Electric Rate Comparison
 - a) Summary
 - b) Utilities sorted by type and rate
 - c) Utilities sorted alphabetically
 - d) Utilities sorted by rate

- II) Kansas All Customer* Electric Rate Comparison
 - a) Summary
 - b) Utilities sorted by type and rate
 - c) Utilities sorted alphabetically
 - d) Utilities sorted by rate

- III) Selected State Electric Rate Comparison
 - a) National comparison
 - b) Comparison of selected states

- IV) Electric Generation Information
 - a) Kansas generators
 - b) Existing IPP capacity and planned additions
 - c) Capacity and energy source information
 - d) Renewable energy information

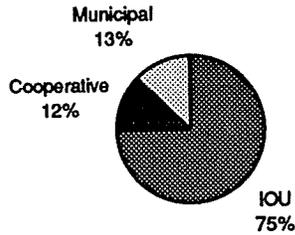
*[all customers in every category, total revenue and sales]

**Kansas
Residential
Customer
Electric
Rate
Comparison**

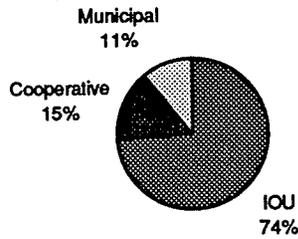
Kansas Residential Electric Customers (averages by utility type) - 1995 data

Type of Electric Utility	Number of Customers	Revenue (\$1,000)	Sales (MWH)	Revenue/kWH (cents)
IOU	806,030	605,683	7,952,440	7.62
Cooperative	131,365	126,678	1,274,541	9.94
Municipal	137,763	88,082	1,128,819	7.80
State Total	1,075,158	820,443	10,355,800	7.92

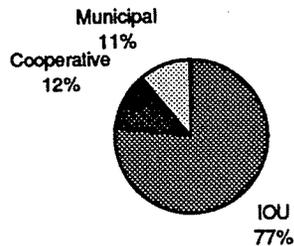
Residential Kansas Electric Customers



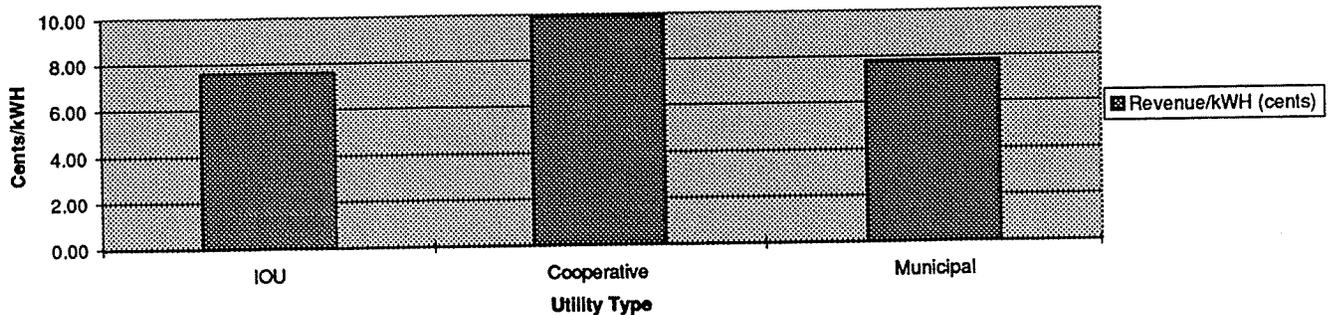
Residential Kansas Electric Revenue



Residential Kansas Electric Sales



Residential Kansas Electric Rates



Kansas Residential Electric Customers (IOUs sorted by rate)					
Electric Utility	Type	Number of Customers	Revenue (\$1,000)	Sales (MWH)	Revenue/kWH (cents)
Southwestern Public Service Co	Investor Owned	1,070	553	8,543	6.47
Empire District Electric Co	Investor Owned	8,519	5,730	93,612	6.12
Kansas City City of	Investor Owned	58,688	32,647	505,071	6.46
UtiliCorp United Inc	Investor Owned	51,595	33,085	419,877	7.88
Kansas City Power & Light Co	Investor Owned	156,274	137,643	1,837,472	7.49
Western Resources Inc	Investor Owned	283,890	174,397	2,703,256	6.45
Kansas Gas & Electric Co	Investor Owned	245,994	221,628	2,384,609	9.29
State Total		806,030	605,683	7,952,440	7.62

[Information from Table 14 Electric Sales and Revenue 1995 published by EIA/DOE]

Kansas Residential Electric Customers (coops sorted by rate)					
Electric Utility	Type	Number of Customers	Revenue (\$1,000)	Sales (MWH)	Revenue/kWH (cents)
Alfalfa Electric Coop Inc	Cooperative	254	308	4,250	7.25
Doniphan Elec Coop Assn Inc	Cooperative	1,395	1,024	13,386	7.65
Northwest Kansas E C A Inc	Cooperative	1,125	1,335	11,631	11.48
Smoky Hill Elec Coop Assn Inc	Cooperative	2,302	1,903	17,684	10.76
CMS Electric Coop Inc	Cooperative	1,887	2,002	20,217	9.9
Victory Electric Coop Assn Inc	Cooperative	2,372	2,096	22,251	9.42
Ninnescah Rural E C A Inc	Cooperative	2,429	2,123	20,767	10.22
Western Coop Electric Assn Inc	Cooperative	2,819	2,169	21,269	10.2
N C K Electric Coop Inc	Cooperative	2,455	2,240	18,753	11.94
Twin Valley Electric Coop Inc	Cooperative	2,076	2,255	18,055	12.49
Nemaha-Marshall E C A Inc	Cooperative	2,937	2,559	34,921	7.33
C & W Rural Elec Coop Assn Inc	Cooperative	2,393	2,591	26,673	9.71
Radiant Electric Coop Inc	Cooperative	2,608	2,634	25,113	10.49
Brown-Atchison E C A Inc	Cooperative	2,678	2,669	27,156	9.83
Norton-Decatur Coop El Co Inc	Cooperative	2,756	2,842	25,854	10.99
Caney Valley El Coop Assn Inc	Cooperative	3,585	2,984	25,006	11.93
P R & W Electric Coop Assn Inc	Cooperative	2,813	3,179	26,518	11.99
Jewell-Mitchell Coop Elec Inc	Cooperative	4,085	3,263	32,755	9.96
Sekan Electric Coop Assn Inc	Cooperative	3,824	3,745	35,285	10.61
Ark Valley Elec Coop Assn Inc	Cooperative	3,926	4,288	36,881	11.63
Sumner-Cowley Elec Coop Inc	Cooperative	3,632	4,478	39,255	11.41
United Electric Coop Inc	Cooperative	4,804	4,507	40,149	11.23
Flint Hills Rural E C A Inc	Cooperative	4,199	4,650	44,045	10.56
Sedgwick Cnty El Coop Assn Inc	Cooperative	3,588	4,688	49,854	9.4
Pioneer Electric Coop Inc	Cooperative	4,631	5,000	47,942	10.43
Lyon-Coffey Electric Coop Inc	Cooperative	4,921	5,202	50,979	10.2
D S & O Rural E C A Inc	Cooperative	5,848	5,476	63,737	8.59
Kaw Valley Electric Coop Inc	Cooperative	6,290	6,349	73,424	8.65
Leavenworth-Jefferson E C Inc	Cooperative	6,086	6,621	62,736	10.55
Butler Rural El Coop Assn Inc	Cooperative	5,251	6,976	64,836	10.76
Wheatland Electric Coop Inc	Cooperative	9,364	8,115	73,632	11.02
Midwest Energy Inc	Cooperative	22,032	16,407	199,527	8.22
State Total		131,365	126,678	1,274,541	9.94

[Information from Table 14 Electric Sales and Revenue 1995 published by EIA/DOE]

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Kansas Residential Electric Customers (municipals sorted by rate)

Electric Utility	Type	Number of Customers	Revenue (\$1,000)	Sales (MWH)	Revenue/kWH (cents)
Radium City of	Municipal	19	11	466	N/A
Elsmore City of	Municipal	57	28	305	N/A
Severance City of	Municipal	60	28	416	N/A
Seward City of	Municipal	40	30	232	N/A
Savonburg City of	Municipal	54	36	360	N/A
Vermillion City of	Municipal	80	41	489	N/A
Isabel City of	Municipal	82	46	500	N/A
Summerfield Town of	Municipal	106	58	798	N/A
Iuka City of	Municipal	100	59	690	N/A
Muscotah City of	Municipal	100	59	684	N/A
Herndon City of	Municipal	136	75	598	N/A
Morrill City of	Municipal	127	75	1,036	N/A
Robinson City of	Municipal	135	78	986	N/A
Prescott City of	Municipal	125	81	921	N/A
Luray City of	Municipal	128	86	872	N/A
Bronson City of	Municipal	165	109	1,271	8.58
Toronto City of	Municipal	203	109	1,267	8.6
Axtell City of	Municipal	204	120	1,586	7.57
Blue Mound City of	Municipal	170	131	1,538	8.52
Arcadia City of	Municipal	184	159	1,354	11.74
Holyrood City of	Municipal	294	164	2,058	7.97
Lucas City of	Municipal	261	171	2,174	7.87
Moran City of	Municipal	254	172	2,298	7.48
Centralia City of	Municipal	265	198	2,058	9.62
Scranton City of	Municipal	279	203	2,555	7.95
Mulberry City of	Municipal	290	206	2,054	10.03
La Harpe City of	Municipal	310	214	2,290	9.34
Waterville City of	Municipal	363	216	2,379	9.08
Enterprise City of	Municipal	325	219	2,521	8.69
Montezuma City of	Municipal	369	221	2,833	7.8
Udall City of	Municipal	353	222	2,731	8.13
Mankato City of	Municipal	516	229	3,237	7.07
Glasco City of	Municipal	355	230	2,579	8.92
Attica City of	Municipal	361	232	3,764	6.16
Cawker City City of	Municipal	377	236	3,356	7.03
Alma City of	Municipal	363	241	2,850	8.46
Galva City of	Municipal	293	251	3,000	8.37
Glen Elder City of	Municipal	306	258	2,956	8.73
Jetmore City of	Municipal	433	264	3,407	7.75
Mount Hope City of	Municipal	330	270	3,101	8.71
Pomona City of	Municipal	478	289	3,970	7.28
Elwood City of	Municipal	400	298	2,238	13.32
Oxford City of	Municipal	534	312	4,601	6.78
Troy City of	Municipal	591	324	3,978	8.14
Sharon Springs City of	Municipal	462	326	2,709	12.03

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Kansas Residential Electric Customers (municipals sorted by rate)

Electric Utility	Type	Number of Customers	Revenue (\$1,000)	Sales (MWH)	Revenue/kWH (cents)
Ashland City of	Municipal	530	327	4,078	8.02
Erie City of	Municipal	546	345	4,467	7.72
Johnson City of	Municipal	523	351	4,124	8.51
Lincoln Center City of	Municipal	706	354	5,140	6.89
Washington City of	Municipal	604	378	4,231	8.93
Haven City of	Municipal	536	414	4,287	9.66
Burlingame City of	Municipal	545	420	4,625	9.08
Chapman City of	Municipal	556	422	3,840	10.99
Horton City of	Municipal	890	433	5,099	8.49
La Crosse City of	Municipal	661	439	4,583	9.58
Chetopa City of	Municipal	681	442	5,890	7.5
Wathena City of	Municipal	573	461	5,160	8.93
Kiowa City of	Municipal	635	471	5,048	9.33
Osborne City of	Municipal	927	475	5,904	8.05
St John City of	Municipal	701	489	4,998	9.78
Stockton City of	Municipal	754	490	5,971	8.21
Altamont City of	Municipal	522	491	7,036	6.98
Stafford City of	Municipal	712	492	4,751	10.36
Moundridge City of	Municipal	689	496	6,093	8.14
Meade City of	Municipal	738	516	5,272	9.79
Oakley City of	Municipal	965	517	6,933	7.46
St Francis City of	Municipal	832	531	4,724	11.24
Minneapolis City of	Municipal	887	544	7,331	7.42
Cimarron City of	Municipal	756	545	6,561	8.31
St Marys City of	Municipal	798	548	7,024	7.8
Dighton City of	Municipal	686	553	4,726	11.7
Arma City of	Municipal	736	600	4,743	12.65
Seneca City of	Municipal	953	602	8,125	7.41
Greensburg City of	Municipal	883	617	8,027	7.69
Sterling City of	Municipal	1,011	680	7,364	9.23
Hillsboro City of	Municipal	1,241	686	8,261	8.3
Anthony City of	Municipal	1,334	687	11,226	6.12
Oberlin City of	Municipal	1,044	704	7,505	9.38
Osage City City of	Municipal	1,259	706	10,757	6.56
Hill City City of	Municipal	841	706	5,975	11.82
Belleville City of	Municipal	1,250	721	8,747	8.24
Herington City of	Municipal	1,348	762	9,205	8.28
Lakin City of	Municipal	852	792	6,000	13.2
Lindsborg City of	Municipal	1,279	795	9,636	8.25
Burlington City of	Municipal	1,252	807	10,688	7.55
Sabetha City of	Municipal	1,262	819	11,226	7.3
Hoisington City of	Municipal	1,590	825	11,343	7.27
Kingman City of	Municipal	1,580	868	13,352	6.5
Baldwin City City of	Municipal	1,180	906	9,965	9.09
Norton City of	Municipal	1,435	938	10,668	8.79

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Kansas Residential Electric Customers (municipals sorted by rate)					
Electric Utility	Type	Number of Customers	Revenue (\$1,000)	Sales (MWH)	Revenue/kWH (cents)
Garnett City of	Municipal	1,543	953	12,097	7.88
Beloit City of	Municipal	1,746	985	14,921	6.6
Holton City of	Municipal	1,856	988	12,679	7.79
Marion City of	Municipal	850	1,009	13,222	7.63
Neodesha City of	Municipal	1,389	1,010	12,122	8.33
Girard City of	Municipal	1,343	1,060	11,215	9.45
Hugoton City of	Municipal	1,493	1,072	12,038	8.91
Fredonia City of	Municipal	1,417	1,115	11,001	10.14
Goodland City of	Municipal	2,318	1,120	15,418	7.26
Wamego City of	Municipal	1,532	1,128	13,575	8.31
Ellinwood City of	Municipal	1,081	1,160	11,513	10.08
Colby City of	Municipal	2,237	1,168	17,729	6.59
Lane-Scott Electric Coop Inc	Municipal	1,613	1,276	11,802	10.81
Mulvane City of	Municipal	1,740	1,326	17,358	7.64
Eudora City of	Municipal	1,507	1,334	17,541	7.61
Clay Center City of	Municipal	2,259	1,366	18,735	7.29
Osawatomie City of	Municipal	1,857	1,409	13,950	10.1
Gardner City of	Municipal	2,059	1,414	18,280	7.74
Russell City of	Municipal	2,434	1,415	20,668	6.85
Larned City of	Municipal	2,163	1,516	16,789	9.03
Iola City of	Municipal	3,268	1,869	27,880	6.7
Pratt City of	Municipal	3,421	2,136	27,672	7.72
Augusta City of	Municipal	3,671	2,195	34,118	6.43
Wellington City of	Municipal	3,797	2,682	33,399	8.03
Chanute City of	Municipal	4,603	2,762	40,281	6.86
Ottawa City of	Municipal	4,791	3,093	36,951	8.37
McPherson City of	Municipal	6,617	3,256	69,129	4.71
Winfield City of	Municipal	5,646	3,695	51,923	7.12
Coffeyville City of	Municipal	6,935	3,839	53,238	7.21
Garden City City of	Municipal	8,857	5,181	62,800	8.25
State Total		137,763	88,082	1,128,819	7.80

[Information from Table 14 Electric Sales and Revenue 1995 published by EIA/DOE]

Kansas Residential Electric Customers (sorted alphabetically)

Electric Utility	Type	Number of Customers	Revenue (\$1,000)	Sales (MWH)	Revenue/kWH (cents)
Alfalfa Electric Coop Inc	Cooperative	254	308	4,250	7.25
Nemaha-Marshall E C A Inc	Cooperative	2,937	2,559	34,921	7.33
Doniphan Elec Coop Assn Inc	Cooperative	1,395	1,024	13,386	7.65
Midwest Energy Inc	Cooperative	22,032	16,407	199,527	8.22
D S & O Rural E C A Inc	Cooperative	5,848	5,476	63,737	8.59
Kaw Valley Electric Coop Inc	Cooperative	6,290	6,349	73,424	8.65
Sedgwick Cnty El Coop Assn Inc	Cooperative	3,588	4,688	49,854	9.4
Victory Electric Coop Assn Inc	Cooperative	2,372	2,096	22,251	9.42
C & W Rural Elec Coop Assn Inc	Cooperative	2,393	2,591	26,673	9.71
Brown-Atchison E C A Inc	Cooperative	2,678	2,669	27,156	9.83
CMS Electric Coop Inc	Cooperative	1,887	2,002	20,217	9.9
Jewell-Mitchell Coop Elec Inc	Cooperative	4,085	3,263	32,755	9.96
Lyon-Coffey Electric Coop Inc	Cooperative	4,921	5,202	50,979	10.2
Western Coop Electric Assn Inc	Cooperative	2,819	2,169	21,269	10.2
Ninnescah Rural E C A Inc	Cooperative	2,429	2,123	20,767	10.22
Pioneer Electric Coop Inc	Cooperative	4,631	5,000	47,942	10.43
Radiant Electric Coop Inc	Cooperative	2,608	2,634	25,113	10.49
Leavenworth-Jefferson E C Inc	Cooperative	6,086	6,621	62,736	10.55
Flint Hills Rural E C A Inc	Cooperative	4,199	4,650	44,045	10.56
Sekan Electric Coop Assn Inc	Cooperative	3,824	3,745	35,285	10.61
Butler Rural El Coop Assn Inc	Cooperative	5,251	6,976	64,836	10.76
Smoky Hill Elec Coop Assn Inc	Cooperative	2,302	1,903	17,684	10.76
Norton-Decatur Coop El Co Inc	Cooperative	2,756	2,842	25,854	10.99
Wheatland Electric Coop Inc	Cooperative	9,364	8,115	73,632	11.02
United Electric Coop Inc	Cooperative	4,804	4,507	40,149	11.23
Sumner-Cowley Elec Coop Inc	Cooperative	3,632	4,478	39,255	11.41
Northwest Kansas E C A Inc	Cooperative	1,125	1,335	11,631	11.48
Ark Valley Elec Coop Assn Inc	Cooperative	3,926	4,288	36,881	11.63
Caney Valley El Coop Assn Inc	Cooperative	3,585	2,984	25,006	11.93
N C K Electric Coop Inc	Cooperative	2,455	2,240	18,753	11.94
P R & W Electric Coop Assn Inc	Cooperative	2,813	3,179	26,518	11.99
Twin Valley Electric Coop Inc	Cooperative	2,076	2,255	18,055	12.49
Empire District Electric Co	Investor Owned	8,519	5,730	93,612	6.12
Western Resources Inc	Investor Owned	283,890	174,397	2,703,256	6.45
Kansas City City of	Investor Owned	58,688	32,647	505,071	6.46
Southwestern Public Service Co	Investor Owned	1,070	553	8,543	6.47
Kansas City Power & Light Co	Investor Owned	156,274	137,643	1,837,472	7.49
UtiliCorp United Inc	Investor Owned	51,595	33,085	419,877	7.88
Kansas Gas & Electric Co	Investor Owned	245,994	221,628	2,384,609	9.29
McPherson City of	Municipal	6,617	3,256	69,129	4.71
Anthony City of	Municipal	1,334	687	11,226	6.12
Attica City of	Municipal	361	232	3,764	6.16
Augusta City of	Municipal	3,671	2,195	34,118	6.43
Kingman City of	Municipal	1,580	868	13,352	6.5
Osage City City of	Municipal	1,259	706	10,757	6.56

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Kansas Residential Electric Customers (sorted alphabetically)					
Electric Utility	Type	Number of Customers	Revenue (\$1,000)	Sales (MWH)	Revenue/kWH (cents)
Colby City of	Municipal	2,237	1,168	17,729	6.59
Beloit City of	Municipal	1,746	985	14,921	6.6
Iola City of	Municipal	3,268	1,869	27,880	6.7
Oxford City of	Municipal	534	312	4,601	6.78
Russell City of	Municipal	2,434	1,415	20,668	6.85
Chanute City of	Municipal	4,603	2,762	40,281	6.86
Lincoln Center City of	Municipal	706	354	5,140	6.89
Altamont City of	Municipal	522	491	7,036	6.98
Cawker City City of	Municipal	377	236	3,356	7.03
Mankato City of	Municipal	516	229	3,237	7.07
Winfield City of	Municipal	5,646	3,695	51,923	7.12
Coffeyville City of	Municipal	6,935	3,839	53,238	7.21
Goodland City of	Municipal	2,318	1,120	15,418	7.26
Hoisington City of	Municipal	1,590	825	11,343	7.27
Pomona City of	Municipal	478	289	3,970	7.28
Clay Center City of	Municipal	2,259	1,366	18,735	7.29
Sabetha City of	Municipal	1,262	819	11,226	7.3
Seneca City of	Municipal	953	602	8,125	7.41
Minneapolis City of	Municipal	887	544	7,331	7.42
Oakley City of	Municipal	965	517	6,933	7.46
Moran City of	Municipal	254	172	2,298	7.48
Chetopa City of	Municipal	681	442	5,890	7.5
Burlington City of	Municipal	1,252	807	10,688	7.55
Axtell City of	Municipal	204	120	1,586	7.57
Eudora City of	Municipal	1,507	1,334	17,541	7.61
Marion City of	Municipal	850	1,009	13,222	7.63
Mulvane City of	Municipal	1,740	1,326	17,358	7.64
Greensburg City of	Municipal	883	617	8,027	7.69
Erie City of	Municipal	546	345	4,467	7.72
Pratt City of	Municipal	3,421	2,136	27,672	7.72
Gardner City of	Municipal	2,059	1,414	18,280	7.74
Jetmore City of	Municipal	433	264	3,407	7.75
Holton City of	Municipal	1,856	988	12,679	7.79
Montezuma City of	Municipal	369	221	2,833	7.8
St Marys City of	Municipal	798	548	7,024	7.8
Lucas City of	Municipal	261	171	2,174	7.87
Garnett City of	Municipal	1,543	953	12,097	7.88
Scranton City of	Municipal	279	203	2,555	7.95
Holyrood City of	Municipal	294	164	2,058	7.97
Ashland City of	Municipal	530	327	4,078	8.02
Wellington City of	Municipal	3,797	2,682	33,399	8.03
Osborne City of	Municipal	927	475	5,904	8.05
Udall City of	Municipal	353	222	2,731	8.13
Moundridge City of	Municipal	689	496	6,093	8.14
Troy City of	Municipal	591	324	3,978	8.14

Kansas Residential Electric Customers (sorted alphabetically)					
Electric Utility	Type	Number of Customers	Revenue (\$1,000)	Sales (MWH)	Revenue/kWH (cents)
Stockton City of	Municipal	754	490	5,971	8.21
Belleville City of	Municipal	1,250	721	8,747	8.24
Garden City City of	Municipal	8,857	5,181	62,800	8.25
Lindsborg City of	Municipal	1,279	795	9,636	8.25
Herington City of	Municipal	1,348	762	9,205	8.28
Hillsboro City of	Municipal	1,241	686	8,261	8.3
Cimarron City of	Municipal	756	545	6,561	8.31
Wamego City of	Municipal	1,532	1,128	13,575	8.31
Neodesha City of	Municipal	1,389	1,010	12,122	8.33
Galva City of	Municipal	293	251	3,000	8.37
Ottawa City of	Municipal	4,791	3,093	36,951	8.37
Alma City of	Municipal	363	241	2,850	8.46
Horton City of	Municipal	890	433	5,099	8.49
Johnson City of	Municipal	523	351	4,124	8.51
Blue Mound City of	Municipal	170	131	1,538	8.52
Bronson City of	Municipal	165	109	1,271	8.58
Toronto City of	Municipal	203	109	1,267	8.6
Enterprise City of	Municipal	325	219	2,521	8.69
Mount Hope City of	Municipal	330	270	3,101	8.71
Glen Elder City of	Municipal	306	258	2,956	8.73
Norton City of	Municipal	1,435	938	10,668	8.79
Hugoton City of	Municipal	1,493	1,072	12,038	8.91
Glasco City of	Municipal	355	230	2,579	8.92
Washington City of	Municipal	604	378	4,231	8.93
Wathena City of	Municipal	573	461	5,160	8.93
Larned City of	Municipal	2,163	1,516	16,789	9.03
Burlingame City of	Municipal	545	420	4,625	9.08
Waterville City of	Municipal	363	216	2,379	9.08
Baldwin City City of	Municipal	1,180	906	9,965	9.09
Sterling City of	Municipal	1,011	680	7,364	9.23
Kiowa City of	Municipal	635	471	5,048	9.33
La Harpe City of	Municipal	310	214	2,290	9.34
Oberlin City of	Municipal	1,044	704	7,505	9.38
Girard City of	Municipal	1,343	1,060	11,215	9.45
La Crosse City of	Municipal	661	439	4,583	9.58
Centralia City of	Municipal	265	198	2,058	9.62
Haven City of	Municipal	536	414	4,287	9.66
St John City of	Municipal	701	489	4,998	9.78
Meade City of	Municipal	738	516	5,272	9.79
Mulberry City of	Municipal	290	206	2,054	10.03
Ellinwood City of	Municipal	1,081	1,160	11,513	10.08
Osawatomie City of	Municipal	1,857	1,409	13,950	10.1
Fredonia City of	Municipal	1,417	1,115	11,001	10.14
Stafford City of	Municipal	712	492	4,751	10.36
Lane-Scott Electric Coop Inc	Municipal	1,613	1,276	11,802	10.81

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Kansas Residential Electric Customers (sorted alphabetically)					
Electric Utility	Type	Number of Customers	Revenue (\$1,000)	Sales (MWH)	Revenue/kWH (cents)
Chapman City of	Municipal	556	422	3,840	10.99
St Francis City of	Municipal	832	531	4,724	11.24
Dighton City of	Municipal	686	553	4,726	11.7
Arcadia City of	Municipal	184	159	1,354	11.74
Hill City City of	Municipal	841	706	5,975	11.82
Sharon Springs City of	Municipal	462	326	2,709	12.03
Arma City of	Municipal	736	600	4,743	12.65
Lakin City of	Municipal	852	792	6,000	13.2
Elwood City of	Municipal	400	298	2,238	13.32
Elsmore City of	Municipal	57	28	305	N/A
Herndon City of	Municipal	136	75	598	N/A
Isabel City of	Municipal	82	46	500	N/A
Iuka City of	Municipal	100	59	690	N/A
Luray City of	Municipal	128	86	872	N/A
Morrill City of	Municipal	127	75	1,036	N/A
Muscotah City of	Municipal	100	59	684	N/A
Prescott City of	Municipal	125	81	921	N/A
Radium City of	Municipal	19	11	466	N/A
Robinson City of	Municipal	135	78	986	N/A
Savonburg City of	Municipal	54	36	360	N/A
Severance City of	Municipal	60	28	416	N/A
Seward City of	Municipal	40	30	232	N/A
Summerfield Town of	Municipal	106	58	798	N/A
Vermillion City of	Municipal	80	41	489	N/A
State Total		1,075,158	820,443	10,355,800	7.92

[Information from Table 14 Electric Sales and Revenue 1995 published by EIA/DOE]

Kansas Residential Electric Customers (utilities sorted by rate)

Electric Utility	Type	Number of Customers	Revenue (\$1,000)	Sales (MWH)	Revenue/kWH (cents)
McPherson City of	Municipal	6,617	3,256	69,129	4.71
Anthony City of	Municipal	1,334	687	11,226	6.12
Empire District Electric Co	Investor Owned	8,519	5,730	93,612	6.12
Attica City of	Municipal	361	232	3,764	6.16
Augusta City of	Municipal	3,671	2,195	34,118	6.43
Western Resources Inc	Investor Owned	283,890	174,397	2,703,256	6.45
Kansas City City of	Investor Owned	58,688	32,647	505,071	6.46
Southwestern Public Service Co	Investor Owned	1,070	553	8,543	6.47
Kingman City of	Municipal	1,580	868	13,352	6.5
Osage City City of	Municipal	1,259	706	10,757	6.56
Colby City of	Municipal	2,237	1,168	17,729	6.59
Beloit City of	Municipal	1,746	985	14,921	6.6
Iola City of	Municipal	3,268	1,869	27,880	6.7
Oxford City of	Municipal	534	312	4,601	6.78
Russell City of	Municipal	2,434	1,415	20,668	6.85
Chanute City of	Municipal	4,603	2,762	40,281	6.86
Lincoln Center City of	Municipal	706	354	5,140	6.89
Altamont City of	Municipal	522	491	7,036	6.98
Cawker City City of	Municipal	377	236	3,356	7.03
Mankato City of	Municipal	516	229	3,237	7.07
Winfield City of	Municipal	5,646	3,695	51,923	7.12
Coffeyville City of	Municipal	6,935	3,839	53,238	7.21
Alfalfa Electric Coop Inc	Cooperative	254	308	4,250	7.25
Goodland City of	Municipal	2,318	1,120	15,418	7.26
Hoisington City of	Municipal	1,590	825	11,343	7.27
Pomona City of	Municipal	478	289	3,970	7.28
Clay Center City of	Municipal	2,259	1,366	18,735	7.29
Sabetha City of	Municipal	1,262	819	11,226	7.3
Nemaha-Marshall E C A Inc	Cooperative	2,937	2,559	34,921	7.33
Seneca City of	Municipal	953	602	8,125	7.41
Minneapolis City of	Municipal	887	544	7,331	7.42
Oakley City of	Municipal	965	517	6,933	7.46
Moran City of	Municipal	254	172	2,298	7.48
Kansas City Power & Light Co	Investor Owned	156,274	137,643	1,837,472	7.49
Chetopa City of	Municipal	681	442	5,890	7.5
Burlington City of	Municipal	1,252	807	10,688	7.55
Axtell City of	Municipal	204	120	1,586	7.57
Eudora City of	Municipal	1,507	1,334	17,541	7.61
Marion City of	Municipal	850	1,009	13,222	7.63
Mulvane City of	Municipal	1,740	1,326	17,358	7.64
Doniphan Elec Coop Assn Inc	Cooperative	1,395	1,024	13,386	7.65
Greensburg City of	Municipal	883	617	8,027	7.69
Erie City of	Municipal	546	345	4,467	7.72
Pratt City of	Municipal	3,421	2,136	27,672	7.72
Gardner City of	Municipal	2,059	1,414	18,280	7.74

Kansas Residential Electric Customers (utilities sorted by rate)

Electric Utility	Type	Number of Customers	Revenue (\$1,000)	Sales (MWH)	Revenue/kWH (cents)
Jetmore City of	Municipal	433	264	3,407	7.75
Holton City of	Municipal	1,856	988	12,679	7.79
Montezuma City of	Municipal	369	221	2,833	7.8
St Marys City of	Municipal	798	548	7,024	7.8
Lucas City of	Municipal	261	171	2,174	7.87
Garnett City of	Municipal	1,543	953	12,097	7.88
UtiliCorp United Inc	Investor Owned	51,595	33,085	419,877	7.88
Scranton City of	Municipal	279	203	2,555	7.95
Holyrood City of	Municipal	294	164	2,058	7.97
Ashland City of	Municipal	530	327	4,078	8.02
Wellington City of	Municipal	3,797	2,682	33,399	8.03
Osborne City of	Municipal	927	475	5,904	8.05
Udall City of	Municipal	353	222	2,731	8.13
Moundridge City of	Municipal	689	496	6,093	8.14
Troy City of	Municipal	591	324	3,978	8.14
Stockton City of	Municipal	754	490	5,971	8.21
Midwest Energy Inc	Cooperative	22,032	16,407	199,527	8.22
Belleville City of	Municipal	1,250	721	8,747	8.24
Garden City City of	Municipal	8,857	5,181	62,800	8.25
Lindsborg City of	Municipal	1,279	795	9,636	8.25
Herington City of	Municipal	1,348	762	9,205	8.28
Hillsboro City of	Municipal	1,241	686	8,261	8.3
Cimarron City of	Municipal	756	545	6,561	8.31
Wamego City of	Municipal	1,532	1,128	13,575	8.31
Neodesha City of	Municipal	1,389	1,010	12,122	8.33
Galva City of	Municipal	293	251	3,000	8.37
Ottawa City of	Municipal	4,791	3,093	36,951	8.37
Alma City of	Municipal	363	241	2,850	8.46
Horton City of	Municipal	890	433	5,099	8.49
Johnson City of	Municipal	523	351	4,124	8.51
Blue Mound City of	Municipal	170	131	1,538	8.52
Bronson City of	Municipal	165	109	1,271	8.58
D S & O Rural E C A Inc	Cooperative	5,848	5,476	63,737	8.59
Toronto City of	Municipal	203	109	1,267	8.6
Kaw Valley Electric Coop Inc	Cooperative	6,290	6,349	73,424	8.65
Enterprise City of	Municipal	325	219	2,521	8.69
Mount Hope City of	Municipal	330	270	3,101	8.71
Glen Elder City of	Municipal	306	258	2,956	8.73
Norton City of	Municipal	1,435	938	10,668	8.79
Hugoton City of	Municipal	1,493	1,072	12,038	8.91
Glasco City of	Municipal	355	230	2,579	8.92
Washington City of	Municipal	604	378	4,231	8.93
Wathena City of	Municipal	573	461	5,160	8.93
Larned City of	Municipal	2,163	1,516	16,789	9.03
Burlingame City of	Municipal	545	420	4,625	9.08

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Kansas Residential Electric Customers (utilities sorted by rate)

Electric Utility	Type	Number of Customers	Revenue (\$1,000)	Sales (MWH)	Revenue/kWH (cents)
Waterville City of	Municipal	363	216	2,379	9.08
Baldwin City City of	Municipal	1,180	906	9,965	9.09
Sterling City of	Municipal	1,011	680	7,364	9.23
Kansas Gas & Electric Co	Investor Owned	245,994	221,628	2,384,609	9.29
Kiowa City of	Municipal	635	471	5,048	9.33
La Harpe City of	Municipal	310	214	2,290	9.34
Oberlin City of	Municipal	1,044	704	7,505	9.38
Sedgwick Cnty El Coop Assn Inc	Cooperative	3,588	4,688	49,854	9.4
Victory Electric Coop Assn Inc	Cooperative	2,372	2,096	22,251	9.42
Girard City of	Municipal	1,343	1,060	11,215	9.45
La Crosse City of	Municipal	661	439	4,583	9.58
Centralia City of	Municipal	265	198	2,058	9.62
Haven City of	Municipal	536	414	4,287	9.66
C & W Rural Elec Coop Assn Inc	Cooperative	2,393	2,591	26,673	9.71
St John City of	Municipal	701	489	4,998	9.78
Meade City of	Municipal	738	516	5,272	9.79
Brown-Atchison E C A Inc	Cooperative	2,678	2,669	27,156	9.83
CMS Electric Coop Inc	Cooperative	1,887	2,002	20,217	9.9
Jewell-Mitchell Coop Elec Inc	Cooperative	4,085	3,263	32,755	9.96
Mulberry City of	Municipal	290	206	2,054	10.03
Ellinwood City of	Municipal	1,081	1,160	11,513	10.08
Osawatomie City of	Municipal	1,857	1,409	13,950	10.1
Fredonia City of	Municipal	1,417	1,115	11,001	10.14
Lyon-Coffey Electric Coop Inc	Cooperative	4,921	5,202	50,979	10.2
Western Coop Electric Assn Inc	Cooperative	2,819	2,169	21,269	10.2
Ninnescah Rural E C A Inc	Cooperative	2,429	2,123	20,767	10.22
Stafford City of	Municipal	712	492	4,751	10.36
Pioneer Electric Coop Inc	Cooperative	4,631	5,000	47,942	10.43
Radiant Electric Coop Inc	Cooperative	2,608	2,634	25,113	10.49
Leavenworth-Jefferson E C Inc	Cooperative	6,086	6,621	62,736	10.55
Flint Hills Rural E C A Inc	Cooperative	4,199	4,650	44,045	10.56
Sekan Electric Coop Assn Inc	Cooperative	3,824	3,745	35,285	10.61
Butler Rural El Coop Assn Inc	Cooperative	5,251	6,976	64,836	10.76
Smoky Hill Elec Coop Assn Inc	Cooperative	2,302	1,903	17,684	10.76
Lane-Scott Electric Coop Inc	Municipal	1,613	1,276	11,802	10.81
Chapman City of	Municipal	556	422	3,840	10.99
Norton-Decatur Coop El Co Inc	Cooperative	2,756	2,842	25,854	10.99
Wheatland Electric Coop Inc	Cooperative	9,364	8,115	73,632	11.02
United Electric Coop Inc	Cooperative	4,804	4,507	40,149	11.23
St Francis City of	Municipal	832	531	4,724	11.24
Sumner-Cowley Elec Coop Inc	Cooperative	3,632	4,478	39,255	11.41
Northwest Kansas E C A Inc	Cooperative	1,125	1,335	11,631	11.48
Ark Valley Elec Coop Assn Inc	Cooperative	3,926	4,288	36,881	11.63
Dighton City of	Municipal	686	553	4,726	11.7
Arcadia City of	Municipal	184	159	1,354	11.74

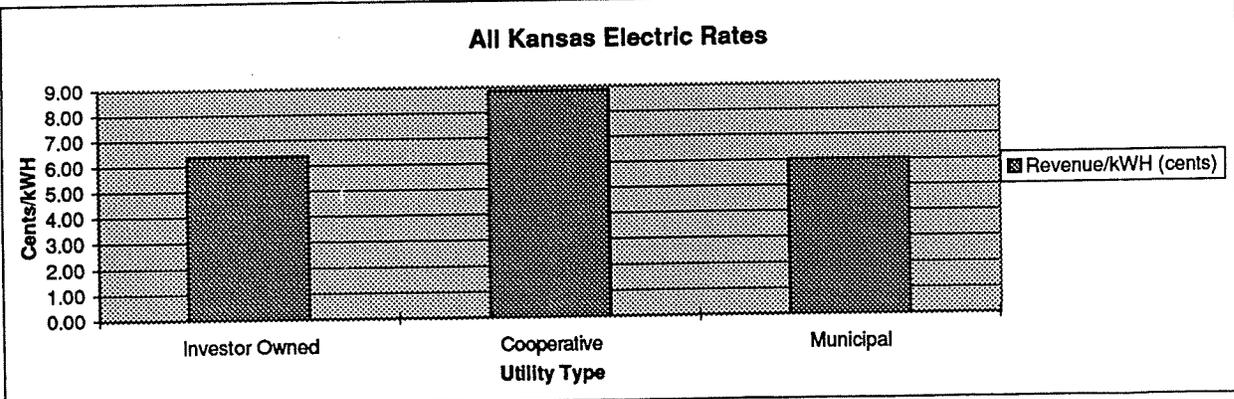
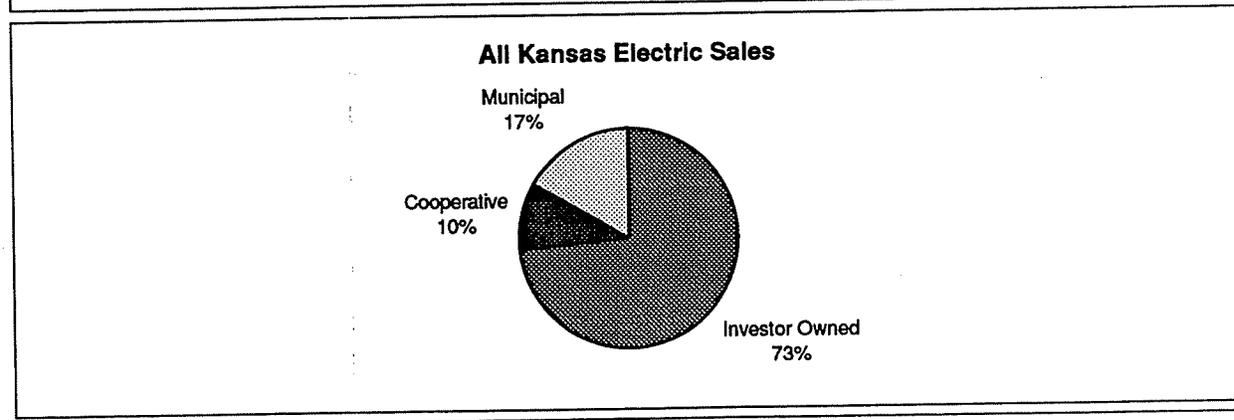
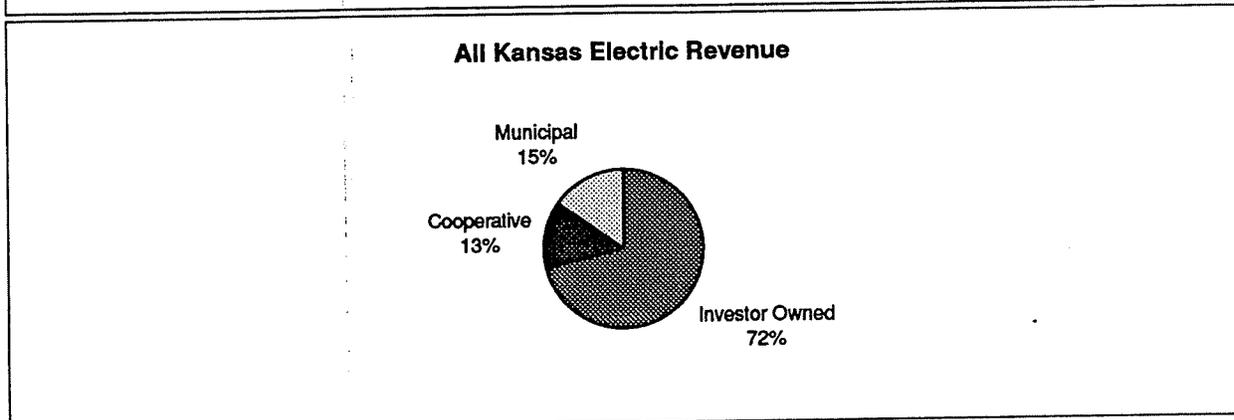
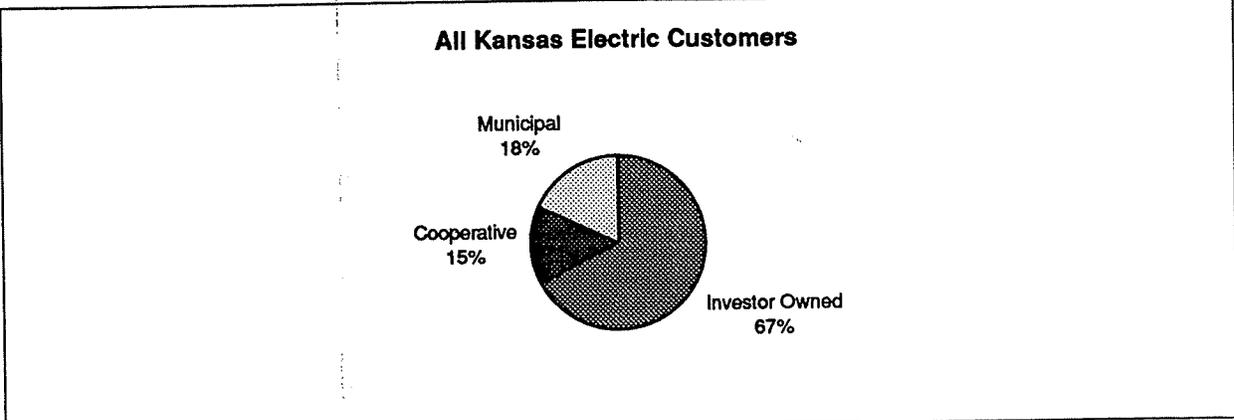
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Kansas Residential Electric Customers (utilities sorted by rate)					
Electric Utility	Type	Number of Customers	Revenue (\$1,000)	Sales (MWH)	Revenue/kWH (cents)
Hill City City of	Municipal	841	706	5,975	11.82
Caney Valley El Coop Assn Inc	Cooperative	3,585	2,984	25,006	11.93
N C K Electric Coop Inc	Cooperative	2,455	2,240	18,753	11.94
P R & W Electric Coop Assn Inc	Cooperative	2,813	3,179	26,518	11.99
Sharon Springs City of	Municipal	462	326	2,709	12.03
Twin Valley Electric Coop Inc	Cooperative	2,076	2,255	18,055	12.49
Arma City of	Municipal	736	600	4,743	12.65
Lakin City of	Municipal	852	792	6,000	13.2
Elwood City of	Municipal	400	298	2,238	13.32
Elsmore City of	Municipal	57	28	305	N/A
Herndon City of	Municipal	136	75	598	N/A
Isabel City of	Municipal	82	46	500	N/A
Iuka City of	Municipal	100	59	690	N/A
Luray City of	Municipal	128	86	872	N/A
Morrill City of	Municipal	127	75	1,036	N/A
Muscotah City of	Municipal	100	59	684	N/A
Prescott City of	Municipal	125	81	921	N/A
Radium City of	Municipal	19	11	466	N/A
Robinson City of	Municipal	135	78	986	N/A
Savonburg City of	Municipal	54	36	360	N/A
Severance City of	Municipal	60	28	416	N/A
Seward City of	Municipal	40	30	232	N/A
Summerfield Town of	Municipal	106	58	798	N/A
Vermillion City of	Municipal	80	41	489	N/A
State Total		1,075,158	820,443	10,355,800	7.92

[Information from Table 14 Electric Sales and Revenue 1995 published by EIA/DOE]

Kansas
All
Customer
Electric
Rate
Comparison

All Kansas Electric Customers (averages by utility type) - 1995 data				
Type of Electric Utility	Number of Customers	Revenue (\$1000)	Sales (MWH)	Revenue/kWH (cents)
Investor Owned	855,088	1,418,122	22,247,177	6.37
Cooperative	184,794	266,976	3,016,657	8.85
Municipal	227,190	306,813	5,093,048	6.02
State Total	1,267,072	1,991,911	30,356,882	6.56



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All Kansas Investor Owned Customers (sorted by rate)					
Electric Utility	Type	Number of Customers	Revenue (\$1000)	Sales (MWH)	Revenue/kWH (cents)
Western Resources Inc	Investor Owned	326,289	433,964	8,201,717	5.29
Empire District Electric Co	Investor Owned	9,974	11,523	202,221	5.70
Southwestern Public Service Co	Investor Owned	1,474	1,449	25,443	5.70
UtiliCorp United Inc	Investor Owned	66,240	94,949	1,574,441	6.03
Kansas City Power & Light Co	Investor Owned	176,609	293,757	4,176,712	7.03
Kansas Gas & Electric Co	Investor Owned	274,502	582,480	8,066,643	7.22
State Total		855,088	1,418,122	22,247,177	6.37

[Information from Table 17 Electric Sales and Revenue 1995 published by EIA/DOE]

All Kansas Cooperative Electric Customers (sorted by rate)					Revenue/kWH
Electric Utility	Type	Number of Customers	Revenue (\$1000)	Sales (MWH)	(cents)
Midwest Energy Inc	Cooperative	34,831	53,171	729,873	7.28
Nemaha-Marshall E C A Inc	Cooperative	3,171	3,037	41,078	7.39
Doniphan Elec Coop Assn Inc	Cooperative	1,484	1,195	15,638	7.64
Victory Electric Coop Assn Inc	Cooperative	3,826	6,984	91,377	7.64
Alfalfa Electric Coop Inc	Cooperative	779	683	8,684	7.87
Wheatland Electric Coop Inc	Cooperative	15,171	33,612	415,212	8.10
Kaw Valley Electric Coop Inc	Cooperative	6,829	8,344	99,823	8.36
D S & O Rural E C A Inc	Cooperative	6,621	7,322	86,168	8.50
Ninnescah Rural E C A Inc	Cooperative	3,188	4,835	55,207	8.76
Western Coop Electric Assn Inc	Cooperative	4,307	9,472	107,256	8.83
Pioneer Electric Coop Inc	Cooperative	12,182	22,512	251,520	8.95
C & W Rural Elec Coop Assn Inc	Cooperative	2,818	3,344	35,929	9.31
CMS Electric Coop Inc	Cooperative	4,638	7,381	78,505	9.40
Sedgwick Cnty EI Coop Assn Inc	Cooperative	4,244	6,082	64,436	9.44
Radiant Electric Coop Inc	Cooperative	3,454	3,869	40,103	9.65
Lane-Scott Electric Coop Inc	Cooperative	2,433	4,790	49,438	9.69
Smoky Hill Elec Coop Assn Inc	Cooperative	2,869	3,593	36,293	9.90
Brown-Atchison E C A Inc	Cooperative	2,889	3,186	32,087	9.93
Jewell-Mitchell Coop Elec Inc	Cooperative	4,584	4,323	43,416	9.96
Sekan Electric Coop Assn Inc	Cooperative	4,208	4,778	47,873	9.98
Lyon-Coffey Electric Coop Inc	Cooperative	6,447	8,034	79,533	10.10
Butler Rural EI Coop Assn Inc	Cooperative	5,781	8,525	82,606	10.32
Flint Hills Rural E C A Inc	Cooperative	5,826	6,434	61,433	10.47
Leavenworth-Jefferson E C Inc	Cooperative	6,553	7,169	67,644	10.60
Norton-Decatur Coop EI Co Inc	Cooperative	5,956	7,749	71,501	10.84
Ark Valley Elec Coop Assn Inc	Cooperative	4,573	6,560	60,228	10.89
United Electric Coop Inc	Cooperative	5,559	5,922	53,875	10.99
Northwest Kansas E C A Inc	Cooperative	2,018	2,816	25,512	11.04
Sumner-Cowley Elec Coop Inc	Cooperative	4,055	6,276	56,656	11.08
N C K Electric Coop Inc	Cooperative	2,983	3,186	28,180	11.31
P R & W Electric Coop Assn Inc	Cooperative	3,063	3,672	31,399	11.69
Caney Valley EI Coop Assn Inc	Cooperative	5,205	5,458	46,459	11.75
Twin Valley Electric Coop Inc	Cooperative	2,249	2,662	21,715	12.26
State Total		184,794	266,976	3,016,657	8.85

[Information from Table 17 Electric Sales and Revenue 1995 published by EIA/DOE]

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All Kansas Municipal Electric Customers (sorted by rate)

Electric Utility	Type	Number of Customers	Revenue (\$1000)	Sales (MWH)	Revenue/kWH (cents)
McPherson City of	Municipal	7,654	17,789	517,987	3.43
Iola City of	Municipal	3,957	4,672	89,661	5.21
Kansas City City of	Municipal	65,807	109,555	2,070,857	5.29
Winfield City of	Municipal	7,052	12,222	231,258	5.29
Chanute City of	Municipal	5,542	8,973	161,940	5.54
Kingman City of	Municipal	1,920	2,406	40,988	5.87
Anthony City of	Municipal	1,996	1,443	23,964	6.02
Colby City of	Municipal	2,792	2,897	46,992	6.16
Attica City of	Municipal	461	388	6,218	6.24
Augusta City of	Municipal	3,973	3,501	55,737	6.28
Beloit City of	Municipal	2,057	2,350	36,414	6.45
Coffeyville City of	Municipal	7,899	11,450	176,447	6.49
Sabetha City of	Municipal	1,579	2,437	37,309	6.53
Osage City City of	Municipal	1,495	1,325	20,226	6.55
Minneapolis City of	Municipal	1,085	914	13,929	6.56
Chetopa City of	Municipal	752	582	8,840	6.58
Russell City of	Municipal	3,262	3,708	55,937	6.63
Gardner City of	Municipal	2,292	2,682	39,781	6.74
Erie City of	Municipal	696	653	9,583	6.81
Pomona City of	Municipal	525	390	5,722	6.82
Wellington City of	Municipal	4,416	6,382	93,271	6.84
Pratt City of	Municipal	4,101	4,500	64,770	6.95
Axtell City of	Municipal	240	153	2,199	6.96
Clay Center City of	Municipal	2,743	2,827	40,482	6.98
Moran City of	Municipal	303	295	4,229	6.98
Altamont City of	Municipal	523	500	7,156	6.99
Oakley City of	Municipal	1,274	1,102	15,753	7.00
Seneca City of	Municipal	1,184	1,360	19,217	7.08
Lincoln Center City of	Municipal	910	849	11,869	7.15
Burlington City of	Municipal	1,541	1,988	27,624	7.20
Jetmore City of	Municipal	572	493	6,844	7.20
Greensburg City of	Municipal	1,049	916	12,624	7.26
Herington City of	Municipal	1,549	1,460	20,121	7.26
Mulvane City of	Municipal	1,962	2,023	27,536	7.35
Belleville City of	Municipal	1,503	1,533	20,700	7.41
Hoisington City of	Municipal	1,810	1,307	17,584	7.43
Neodesha City of	Municipal	1,706	2,766	37,196	7.44
Moundridge City of	Municipal	813	1,296	17,385	7.45
Ottawa City of	Municipal	5,507	7,225	97,031	7.45
Mankato City of	Municipal	668	518	6,844	7.57
Wamego City of	Municipal	1,838	2,221	29,352	7.57
Goodland City of	Municipal	2,926	3,198	42,193	7.58
Ashland City of	Municipal	694	603	7,934	7.60
Eudora City of	Municipal	1,584	1,881	24,705	7.61
Iuka City of	Municipal	123	124	1,625	7.63
Garnett City of	Municipal	1,801	1,619	21,175	7.65

All Kansas Municipal Electric Customers (sorted by rate)

Electric Utility	Type	Number of Customers	Revenue (\$1000)	Sales (MWH)	Revenue/kWH (cents)
Scranton City of	Municipal	310	273	3,559	7.67
Marion City of	Municipal	1,103	1,128	14,502	7.78
Robinson City of	Municipal	191	119	1,521	7.82
Oxford City of	Municipal	641	648	8,199	7.90
Johnson City of	Municipal	770	923	11,671	7.91
Garden City City of	Municipal	9,427	12,447	156,716	7.94
Osborne City of	Municipal	1,128	1,067	13,343	8.00
Troy City of	Municipal	599	481	6,002	8.01
St Marys City of	Municipal	951	1,116	13,747	8.12
Cawker City City of	Municipal	434	352	4,302	8.18
Alma City of	Municipal	470	497	6,055	8.21
Glen Elder City of	Municipal	364	302	3,678	8.21
Lindsborg City of	Municipal	1,512	1,717	20,904	8.21
Stockton City of	Municipal	1,031	1,066	12,981	8.21
Lucas City of	Municipal	330	273	3,316	8.23
Prescott City of	Municipal	157	123	1,494	8.23
Udall City of	Municipal	401	368	4,449	8.27
Hillsboro City of	Municipal	1,450	1,443	17,427	8.28
Holton City of	Municipal	2,220	2,609	31,483	8.29
Larned City of	Municipal	2,596	2,887	34,810	8.29
Enterprise City of	Municipal	382	344	4,145	8.30
Bronson City of	Municipal	186	150	1,800	8.33
Galva City of	Municipal	344	295	3,529	8.36
Waterville City of	Municipal	442	375	4,472	8.39
Holyrood City of	Municipal	316	235	2,795	8.41
Horton City of	Municipal	1,060	879	10,426	8.43
Norton City of	Municipal	1,777	1,938	22,947	8.45
Girard City of	Municipal	1,608	2,249	26,514	8.48
Baldwin City City of	Municipal	1,281	1,644	19,345	8.50
Blue Mound City of	Municipal	170	131	1,538	8.52
Montezuma City of	Municipal	457	561	6,472	8.67
Wathena City of	Municipal	676	621	7,150	8.69
Haven City of	Municipal	652	789	9,066	8.70
Toronto City of	Municipal	226	139	1,587	8.76
Meade City of	Municipal	926	1,021	11,609	8.79
Washington City of	Municipal	751	818	9,229	8.86
Glasco City of	Municipal	396	307	3,443	8.92
Burlingame City of	Municipal	627	651	7,294	8.93
Cimarron City of	Municipal	914	1,121	12,342	9.08
Kiowa City of	Municipal	805	858	9,425	9.10
Oberlin City of	Municipal	1,301	1,237	13,426	9.21
Mount Hope City of	Municipal	345	400	4,301	9.30
La Crosse City of	Municipal	821	815	8,755	9.31
La Harpe City of	Municipal	324	238	2,541	9.37
Sterling City of	Municipal	1,204	1,331	14,204	9.37
Hugoton City of	Municipal	1,850	2,196	23,348	9.41

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All Kansas Municipal Electric Customers (sorted by rate)					
Electric Utility	Type	Number of Customers	Revenue (\$1000)	Sales (MWH)	Revenue/kWH (cents)
Centralia City of	Municipal	305	293	3,100	9.45
Osawatomie City of	Municipal	2,092	2,209	23,123	9.55
St John City of	Municipal	861	836	8,753	9.55
Luray City of	Municipal	166	126	1,308	9.63
Mulberry City of	Municipal	300	235	2,345	10.02
Arma City of	Municipal	810	893	8,882	10.05
Ellinwood City of	Municipal	1,246	1,337	13,272	10.07
Fredonia City of	Municipal	1,720	2,243	22,138	10.13
Stafford City of	Municipal	810	806	7,669	10.51
St Francis City of	Municipal	1,087	994	9,043	10.99
Hill City City of	Municipal	1,100	1,277	11,170	11.43
Dighton City of	Municipal	810	998	8,697	11.48
Arcadia City of	Municipal	198	169	1,448	11.67
Herndon City of	Municipal	170	118	1,011	11.67
Sharon Springs City of	Municipal	582	606	5,169	11.72
Chapman City of	Municipal	626	620	5,185	11.96
Elwood City of	Municipal	431	411	3,222	12.76
Lakin City of	Municipal	983	1,431	11,000	13.01
Elsmore City of	Municipal	60	33	335	N/A
Isabel City of	Municipal	83	83	826	N/A
Morrill City of	Municipal	161	90	1,165	N/A
Muscotah City of	Municipal	104	63	727	N/A
Radium City of	Municipal	21	39	1,400	N/A
Savonburg City of	Municipal	63	43	415	N/A
Severance City of	Municipal	60	28	416	N/A
Seward City of	Municipal	46	38	412	N/A
Summerfield Town of	Municipal	140	82	1,115	N/A
Vermillion City of	Municipal	93	54	631	N/A
State Total		227,190	306,813	5,093,048	6.02

[Information from Table 17 Electric Sales and Revenue 1995 published by EIA/DOE]

All Kansas Electric Customers (sorted alphabetically)

Electric Utility	Type	Number of Customers	Revenue (\$1000)	Sales (MWH)	Revenue/kWH (cents)
Alfa Electric Coop Inc	Cooperative	779	683	8,684	7.87
Alma City of	Municipal	470	497	6,055	8.21
Altamont City of	Municipal	523	500	7,156	6.99
Anthony City of	Municipal	1,996	1,443	23,964	6.02
Arcadia City of	Municipal	198	169	1,448	11.67
Ark Valley Elec Coop Assn Inc	Cooperative	4,573	6,560	60,228	10.89
Arma City of	Municipal	810	893	8,882	10.05
Ashland City of	Municipal	694	603	7,934	7.60
Attica City of	Municipal	461	388	6,218	6.24
Augusta City of	Municipal	3,973	3,501	55,737	6.28
Axtell City of	Municipal	240	153	2,199	6.96
Baldwin City City of	Municipal	1,281	1,644	19,345	8.50
Belleville City of	Municipal	1,503	1,533	20,700	7.41
Beloit City of	Municipal	2,057	2,350	36,414	6.45
Blue Mound City of	Municipal	170	131	1,538	8.52
Bronson City of	Municipal	186	150	1,800	8.33
Brown-Atchison E C A Inc	Cooperative	2,889	3,186	32,087	9.93
Burlingame City of	Municipal	627	651	7,294	8.93
Burlington City of	Municipal	1,541	1,988	27,624	7.20
Butler Rural El Coop Assn Inc	Cooperative	5,781	8,525	82,606	10.32
C & W Rural Elec Coop Assn Inc	Cooperative	2,818	3,344	35,929	9.31
Caney Valley El Coop Assn Inc	Cooperative	5,205	5,458	46,459	11.75
Cawker City City of	Municipal	434	352	4,302	8.18
Centralia City of	Municipal	305	293	3,100	9.45
Chanute City of	Municipal	5,542	8,973	161,940	5.54
Chapman City of	Municipal	626	620	5,185	11.96
Chetopa City of	Municipal	752	582	8,840	6.58
Cimarron City of	Municipal	914	1,121	12,342	9.08
Clay Center City of	Municipal	2,743	2,827	40,482	6.98
Coffeyville City of	Municipal	7,899	11,450	176,447	6.49
Colby City of	Municipal	2,792	2,897	46,992	6.16
CMS Electric Coop Inc	Cooperative	4,638	7,381	78,505	9.40
D S & O Rural E C A Inc	Cooperative	6,621	7,322	86,168	8.50
Dighton City of	Municipal	810	998	8,697	11.48
Doniphan Elec Coop Assn Inc	Cooperative	1,484	1,195	15,638	7.64
Ellinwood City of	Municipal	1,246	1,337	13,272	10.07
Elsmore City of	Municipal	60	33	335	N/A
Elwood City of	Municipal	431	411	3,222	12.76
Empire District Electric Co	Investor Owned	9,974	11,523	202,221	5.70
Enterprise City of	Municipal	382	344	4,145	8.30
Erie City of	Municipal	696	653	9,583	6.81
Eudora City of	Municipal	1,584	1,881	24,705	7.61
Flint Hills Rural E C A Inc	Cooperative	5,826	6,434	61,433	10.47
Fredonia City of	Municipal	1,720	2,243	22,138	10.13
Galva City of	Municipal	344	295	3,529	8.36
Garden City City of	Municipal	9,427	12,447	156,716	7.94

All Kansas Electric Customers (sorted alphabetically)					
Electric Utility	Type	Number of Customers	Revenue (\$1000)	Sales (MWH)	Revenue/kWH (cents)
Gardner City of	Municipal	2,292	2,682	39,781	6.74
Garnett City of	Municipal	1,801	1,619	21,175	7.65
Girard City of	Municipal	1,608	2,249	26,514	8.48
Glasco City of	Municipal	396	307	3,443	8.92
Glen Elder City of	Municipal	364	302	3,678	8.21
Goodland City of	Municipal	2,926	3,198	42,193	7.58
Greensburg City of	Municipal	1,049	916	12,624	7.26
Haven City of	Municipal	652	789	9,066	8.70
Herington City of	Municipal	1,549	1,460	20,121	7.26
Herndon City of	Municipal	170	118	1,011	11.67
Hill City City of	Municipal	1,100	1,277	11,170	11.43
Hillsboro City of	Municipal	1,450	1,443	17,427	8.28
Hoisington City of	Municipal	1,810	1,307	17,584	7.43
Holton City of	Municipal	2,220	2,609	31,483	8.29
Holyrood City of	Municipal	316	235	2,795	8.41
Horton City of	Municipal	1,060	879	10,426	8.43
Hugoton City of	Municipal	1,850	2,196	23,348	9.41
Iola City of	Municipal	3,957	4,672	89,661	5.21
Isabel City of	Municipal	83	83	826	N/A
Iuka City of	Municipal	123	124	1,625	7.63
Jetmore City of	Municipal	572	493	6,844	7.20
Jewell-Mitchell Coop Elec Inc	Cooperative	4,584	4,323	43,416	9.96
Johnson City of	Municipal	770	923	11,671	7.91
Kansas City City of	Municipal	65,807	109,555	2,070,857	5.29
Kansas City Power & Light Co	Investor Owned	176,609	293,757	4,176,712	7.03
Kansas Gas & Electric Co	Investor Owned	274,502	582,480	8,066,643	7.22
Kaw Valley Electric Coop Inc	Cooperative	6,829	8,344	99,823	8.36
Kingman City of	Municipal	1,920	2,406	40,988	5.87
Kiowa City of	Municipal	805	858	9,425	9.10
La Crosse City of	Municipal	821	815	8,755	9.31
La Harpe City of	Municipal	324	238	2,541	9.37
Lakin City of	Municipal	983	1,431	11,000	13.01
Lane-Scott Electric Coop Inc	Cooperative	2,433	4,790	49,438	9.69
Larned City of	Municipal	2,596	2,887	34,810	8.29
Leavenworth-Jefferson E C Inc	Cooperative	6,553	7,169	67,644	10.60
Lincoln Center City of	Municipal	910	849	11,869	7.15
Lindsborg City of	Municipal	1,512	1,717	20,904	8.21
Lucas City of	Municipal	330	273	3,316	8.23
Luray City of	Municipal	166	126	1,308	9.63
Lyon-Coffey Electric Coop Inc	Cooperative	6,447	8,034	79,533	10.10
Mankato City of	Municipal	668	518	6,844	7.57
Marion City of	Municipal	1,103	1,128	14,502	7.78
McPherson City of	Municipal	7,654	17,789	517,987	3.43
Meade City of	Municipal	926	1,021	11,609	8.79
Midwest Energy Inc	Cooperative	34,831	53,171	729,873	7.28
Minneapolis City of	Municipal	1,085	914	13,929	6.56

All Kansas Electric Customers (sorted alphabetically)

Electric Utility	Type	Number of Customers	Revenue (\$1000)	Sales (MWH)	Revenue/kWH (cents)
Montezuma City of	Municipal	457	561	6,472	8.67
Moran City of	Municipal	303	295	4,229	6.98
Morrill City of	Municipal	161	90	1,165	N/A
Moundridge City of	Municipal	813	1,296	17,385	7.45
Mount Hope City of	Municipal	345	400	4,301	9.30
Mulberry City of	Municipal	300	235	2,345	10.02
Mulvane City of	Municipal	1,962	2,023	27,536	7.35
Muscotah City of	Municipal	104	63	727	N/A
N C K Electric Coop Inc	Cooperative	2,983	3,186	28,180	11.31
Nemaha-Marshall E C A Inc	Cooperative	3,171	3,037	41,078	7.39
Neodesha City of	Municipal	1,706	2,766	37,196	7.44
Ninnescah Rural E C A Inc	Cooperative	3,188	4,835	55,207	8.76
Northwest Kansas E C A Inc	Cooperative	2,018	2,816	25,512	11.04
Norton City of	Municipal	1,777	1,938	22,947	8.45
Norton-Decatur Coop El Co Inc	Cooperative	5,956	7,749	71,501	10.84
Oakley City of	Municipal	1,274	1,102	15,753	7.00
Oberlin City of	Municipal	1,301	1,237	13,426	9.21
Osage City City of	Municipal	1,495	1,325	20,226	6.55
Osawatomie City of	Municipal	2,092	2,209	23,123	9.55
Osborne City of	Municipal	1,128	1,067	13,343	8.00
Ottawa City of	Municipal	5,507	7,225	97,031	7.45
Oxford City of	Municipal	641	648	8,199	7.90
P R & W Electric Coop Assn Inc	Cooperative	3,063	3,672	31,399	11.69
Pioneer Electric Coop Inc	Cooperative	12,182	22,512	251,520	8.95
Pomona City of	Municipal	525	390	5,722	6.82
Pratt City of	Municipal	4,101	4,500	64,770	6.95
Prescott City of	Municipal	157	123	1,494	8.23
Radiant Electric Coop Inc	Cooperative	3,454	3,869	40,103	9.65
Radium City of	Municipal	21	39	1,400	N/A
Robinson City of	Municipal	191	119	1,521	7.82
Russell City of	Municipal	3,262	3,708	55,937	6.63
Sabetha City of	Municipal	1,579	2,437	37,309	6.53
Savonburg City of	Municipal	63	43	415	N/A
Scranton City of	Municipal	310	273	3,559	7.67
Sedgwick Cnty El Coop Assn Inc	Cooperative	4,244	6,082	64,436	9.44
Sekan Electric Coop Assn Inc	Cooperative	4,208	4,778	47,873	9.98
Seneca City of	Municipal	1,184	1,360	19,217	7.08
Severance City of	Municipal	60	28	416	N/A
Seward City of	Municipal	46	38	412	N/A
Sharon Springs City of	Municipal	582	606	5,169	11.72
Smoky Hill Elec Coop Assn Inc	Cooperative	2,869	3,593	36,293	9.90
Southwestern Public Service Co	Investor Owned	1,474	1,449	25,443	5.70
St Francis City of	Municipal	1,087	994	9,043	10.99
St John City of	Municipal	861	836	8,753	9.55
St Marys City of	Municipal	951	1,116	13,747	8.12
Stafford City of	Municipal	810	806	7,669	10.51

All Kansas Electric Customers (sorted alphabetically)					
Electric Utility	Type	Number of Customers	Revenue (\$1000)	Sales (MWH)	Revenue/kWH (cents)
Sterling City of	Municipal	1,204	1,331	14,204	9.37
Stockton City of	Municipal	1,031	1,066	12,981	8.21
Summerfield Town of	Municipal	140	82	1,115	N/A
Sumner-Cowley Elec Coop Inc	Cooperative	4,055	6,276	56,656	11.08
Toronto City of	Municipal	226	139	1,587	8.76
Troy City of	Municipal	599	481	6,002	8.01
Twin Valley Electric Coop Inc	Cooperative	2,249	2,662	21,715	12.26
Udall City of	Municipal	401	368	4,449	8.27
United Electric Coop Inc	Cooperative	5,559	5,922	53,875	10.99
UtiliCorp United Inc	Investor Owned	66,240	94,949	1,574,441	6.03
Vermillion City of	Municipal	93	54	631	N/A
Victory Electric Coop Assn Inc	Cooperative	3,826	6,984	91,377	7.64
Wamego City of	Municipal	1,838	2,221	29,352	7.57
Washington City of	Municipal	751	818	9,229	8.86
Waterville City of	Municipal	442	375	4,472	8.39
Wathena City of	Municipal	676	621	7,150	8.69
Wellington City of	Municipal	4,416	6,382	93,271	6.84
Western Coop Electric Assn Inc	Cooperative	4,307	9,472	107,256	8.83
Western Resources Inc	Investor Owned	326,289	433,964	8,201,717	5.29
Wheatland Electric Coop Inc	Cooperative	15,171	33,612	415,212	8.10
Winfield City of	Municipal	7,052	12,222	231,258	5.29
State Total		1,267,072	1,991,911	30,356,882	6.56

[Information from Table 17 Electric Sales and Revenue 1995 published by EIA/DOE]

All Kansas Electric Customers (sorted by rate)

Electric Utility	Type	Number of Customers	Revenue (\$1000)	Sales (MWH)	Revenue/kWH (cents)
McPherson City of	Municipal	7,654	17,789	517,987	3.43
Iola City of	Municipal	3,957	4,672	89,661	5.21
Kansas City City of	Municipal	65,807	109,555	2,070,857	5.29
Western Resources Inc	Investor Owned	326,289	433,964	8,201,717	5.29
Winfield City of	Municipal	7,052	12,222	231,258	5.29
Chanute City of	Municipal	5,542	8,973	161,940	5.54
Empire District Electric Co	Investor Owned	9,974	11,523	202,221	5.70
Southwestern Public Service Co	Investor Owned	1,474	1,449	25,443	5.70
Kingman City of	Municipal	1,920	2,406	40,988	5.87
Anthony City of	Municipal	1,996	1,443	23,964	6.02
UtiliCorp United Inc	Investor Owned	66,240	94,949	1,574,441	6.03
Colby City of	Municipal	2,792	2,897	46,992	6.16
Attica City of	Municipal	461	388	6,218	6.24
Augusta City of	Municipal	3,973	3,501	55,737	6.28
Beloit City of	Municipal	2,057	2,350	36,414	6.45
Coffeyville City of	Municipal	7,899	11,450	176,447	6.49
Sabetha City of	Municipal	1,579	2,437	37,309	6.53
Osage City City of	Municipal	1,495	1,325	20,226	6.55
Minneapolis City of	Municipal	1,085	914	13,929	6.56
Chetopa City of	Municipal	752	582	8,840	6.58
Russell City of	Municipal	3,262	3,708	55,937	6.63
Gardner City of	Municipal	2,292	2,682	39,781	6.74
Erie City of	Municipal	696	653	9,583	6.81
Pomona City of	Municipal	525	390	5,722	6.82
Wellington City of	Municipal	4,416	6,382	93,271	6.84
Pratt City of	Municipal	4,101	4,500	64,770	6.95
Axtell City of	Municipal	240	153	2,199	6.96
Clay Center City of	Municipal	2,743	2,827	40,482	6.98
Moran City of	Municipal	303	295	4,229	6.98
Altamont City of	Municipal	523	500	7,156	6.99
Oakley City of	Municipal	1,274	1,102	15,753	7.00
Kansas City Power & Light Co	Investor Owned	176,609	293,757	4,176,712	7.03
Seneca City of	Municipal	1,184	1,360	19,217	7.08
Lincoln Center City of	Municipal	910	849	11,869	7.15
Burlington City of	Municipal	1,541	1,988	27,624	7.20
Jetmore City of	Municipal	572	493	6,844	7.20
Kansas Gas & Electric Co	Investor Owned	274,502	582,480	8,066,643	7.22
Greensburg City of	Municipal	1,049	916	12,624	7.26
Herington City of	Municipal	1,549	1,460	20,121	7.26
Midwest Energy Inc	Cooperative	34,831	53,171	729,873	7.28
Mulvane City of	Municipal	1,962	2,023	27,536	7.35
Nemaha-Marshall E C A Inc	Cooperative	3,171	3,037	41,078	7.39
Belleville City of	Municipal	1,503	1,533	20,700	7.41
Hoisington City of	Municipal	1,810	1,307	17,584	7.43
Neodesha City of	Municipal	1,706	2,766	37,196	7.44
Moundridge City of	Municipal	813	1,296	17,385	7.45

All Kansas Electric Customers (sorted by rate)

Electric Utility	Type	Number of Customers	Revenue (\$1000)	Sales (MWH)	Revenue/kWH (cents)
Ottawa City of	Municipal	5,507	7,225	97,031	7.45
Mankato City of	Municipal	668	518	6,844	7.57
Wamego City of	Municipal	1,838	2,221	29,352	7.57
Goodland City of	Municipal	2,926	3,198	42,193	7.58
Ashland City of	Municipal	694	603	7,934	7.60
Eudora City of	Municipal	1,584	1,881	24,705	7.61
Iuka City of	Municipal	123	124	1,625	7.63
Doniphan Elec Coop Assn Inc	Cooperative	1,484	1,195	15,638	7.64
Victory Electric Coop Assn Inc	Cooperative	3,826	6,984	91,377	7.64
Garnett City of	Municipal	1,801	1,619	21,175	7.65
Scranton City of	Municipal	310	273	3,559	7.67
Marion City of	Municipal	1,103	1,128	14,502	7.78
Robinson City of	Municipal	191	119	1,521	7.82
Alfalfa Electric Coop Inc	Cooperative	779	683	8,684	7.87
Oxford City of	Municipal	641	648	8,199	7.90
Johnson City of	Municipal	770	923	11,671	7.91
Garden City City of	Municipal	9,427	12,447	156,716	7.94
Osborne City of	Municipal	1,128	1,067	13,343	8.00
Troy City of	Municipal	599	481	6,002	8.01
Wheatland Electric Coop Inc	Cooperative	15,171	33,612	415,212	8.10
St Marys City of	Municipal	951	1,116	13,747	8.12
Cawker City City of	Municipal	434	352	4,302	8.18
Alma City of	Municipal	470	497	6,055	8.21
Glen Elder City of	Municipal	364	302	3,678	8.21
Lindsborg City of	Municipal	1,512	1,717	20,904	8.21
Stockton City of	Municipal	1,031	1,066	12,981	8.21
Lucas City of	Municipal	330	273	3,316	8.23
Prescott City of	Municipal	157	123	1,494	8.23
Udall City of	Municipal	401	368	4,449	8.27
Hillsboro City of	Municipal	1,450	1,443	17,427	8.28
Holton City of	Municipal	2,220	2,609	31,483	8.29
Larned City of	Municipal	2,596	2,887	34,810	8.29
Enterprise City of	Municipal	382	344	4,145	8.30
Bronson City of	Municipal	186	150	1,800	8.33
Galva City of	Municipal	344	295	3,529	8.36
Kaw Valley Electric Coop Inc	Cooperative	6,829	8,344	99,823	8.36
Waterville City of	Municipal	442	375	4,472	8.39
Holyrood City of	Municipal	316	235	2,795	8.41
Horton City of	Municipal	1,060	879	10,426	8.43
Norton City of	Municipal	1,777	1,938	22,947	8.45
Girard City of	Municipal	1,608	2,249	26,514	8.48
Baldwin City City of	Municipal	1,281	1,644	19,345	8.50
D S & O Rural E C A Inc	Cooperative	6,621	7,322	86,168	8.50
Blue Mound City of	Municipal	170	131	1,538	8.52
Montezuma City of	Municipal	457	561	6,472	8.67
Wathena City of	Municipal	676	621	7,150	8.69

All Kansas Electric Customers (sorted by rate)					
Electric Utility	Type	Number of Customers	Revenue (\$1000)	Sales (MWH)	Revenue/kWH (cents)
Haven City of	Municipal	652	789	9,066	8.70
Ninnescah Rural E C A Inc	Cooperative	3,188	4,835	55,207	8.76
Toronto City of	Municipal	226	139	1,587	8.76
Meade City of	Municipal	926	1,021	11,609	8.79
Western Coop Electric Assn Inc	Cooperative	4,307	9,472	107,256	8.83
Washington City of	Municipal	751	818	9,229	8.86
Glasco City of	Municipal	396	307	3,443	8.92
Burlingame City of	Municipal	627	651	7,294	8.93
Pioneer Electric Coop Inc	Cooperative	12,182	22,512	251,520	8.95
Cimarron City of	Municipal	914	1,121	12,342	9.08
Kiowa City of	Municipal	805	858	9,425	9.10
Oberlin City of	Municipal	1,301	1,237	13,426	9.21
Mount Hope City of	Municipal	345	400	4,301	9.30
C & W Rural Elec Coop Assn Inc	Cooperative	2,818	3,344	35,929	9.31
La Crosse City of	Municipal	821	815	8,755	9.31
La Harpe City of	Municipal	324	238	2,541	9.37
Sterling City of	Municipal	1,204	1,331	14,204	9.37
CMS Electric Coop Inc	Cooperative	4,638	7,381	78,505	9.40
Hugoton City of	Municipal	1,850	2,196	23,348	9.41
Sedgwick Cnty El Coop Assn Inc	Cooperative	4,244	6,082	64,436	9.44
Centralia City of	Municipal	305	293	3,100	9.45
Osawatomie City of	Municipal	2,092	2,209	23,123	9.55
St John City of	Municipal	861	836	8,753	9.55
Luray City of	Municipal	166	126	1,308	9.63
Radiant Electric Coop Inc	Cooperative	3,454	3,869	40,103	9.65
Lane-Scott Electric Coop Inc	Cooperative	2,433	4,790	49,438	9.69
Smoky Hill Elec Coop Assn Inc	Cooperative	2,869	3,593	36,293	9.90
Brown-Atchison E C A Inc	Cooperative	2,889	3,186	32,087	9.93
Jewell-Mitchell Coop Elec Inc	Cooperative	4,584	4,323	43,416	9.96
Sekan Electric Coop Assn Inc	Cooperative	4,208	4,778	47,873	9.98
Mulberry City of	Municipal	300	235	2,345	10.02
Arma City of	Municipal	810	893	8,882	10.05
Ellinwood City of	Municipal	1,246	1,337	13,272	10.07
Lyon-Coffey Electric Coop Inc	Cooperative	6,447	8,034	79,533	10.10
Fredonia City of	Municipal	1,720	2,243	22,138	10.13
Butler Rural El Coop Assn Inc	Cooperative	5,781	8,525	82,606	10.32
Flint Hills Rural E C A Inc	Cooperative	5,826	6,434	61,433	10.47
Stafford City of	Municipal	810	806	7,669	10.51
Leavenworth-Jefferson E C Inc	Cooperative	6,553	7,169	67,644	10.60
Norton-Decatur Coop El Co Inc	Cooperative	5,956	7,749	71,501	10.84
Ark Valley Elec Coop Assn Inc	Cooperative	4,573	6,560	60,228	10.89
St Francis City of	Municipal	1,087	994	9,043	10.99
United Electric Coop Inc	Cooperative	5,559	5,922	53,875	10.99
Northwest Kansas E C A Inc	Cooperative	2,018	2,816	25,512	11.04
Sumner-Cowley Elec Coop Inc	Cooperative	4,055	6,276	56,656	11.08
N C K Electric Coop Inc	Cooperative	2,983	3,186	28,180	11.31

All Kansas Electric Customers (sorted by rate)					
Electric Utility	Type	Number of Customers	Revenue (\$1000)	Sales (MWH)	Revenue/kWH (cents)
Hill City City of	Municipal	1,100	1,277	11,170	11.43
Dighton City of	Municipal	810	998	8,697	11.48
Arcadia City of	Municipal	198	169	1,448	11.67
Herndon City of	Municipal	170	118	1,011	11.67
P R & W Electric Coop Assn Inc	Cooperative	3,063	3,672	31,399	11.69
Sharon Springs City of	Municipal	582	606	5,169	11.72
Caney Valley El Coop Assn Inc	Cooperative	5,205	5,458	46,459	11.75
Chapman City of	Municipal	626	620	5,185	11.96
Twin Valley Electric Coop Inc	Cooperative	2,249	2,662	21,715	12.26
Elwood City of	Municipal	431	411	3,222	12.76
Lakin City of	Municipal	983	1,431	11,000	13.01
Elsmore City of	Municipal	60	33	335	N/A
Isabel City of	Municipal	83	83	826	N/A
Morrill City of	Municipal	161	90	1,165	N/A
Muscotah City of	Municipal	104	63	727	N/A
Radium City of	Municipal	21	39	1,400	N/A
Savonburg City of	Municipal	63	43	415	N/A
Severance City of	Municipal	60	28	416	N/A
Seward City of	Municipal	46	38	412	N/A
Summerfield Town of	Municipal	140	82	1,115	N/A
Vermillion City of	Municipal	93	54	631	N/A
State Total		1,267,072	1,991,911	30,356,882	6.56

[Information from Table 17 Electric Sales and Revenue 1995 published by EIA/DOE]

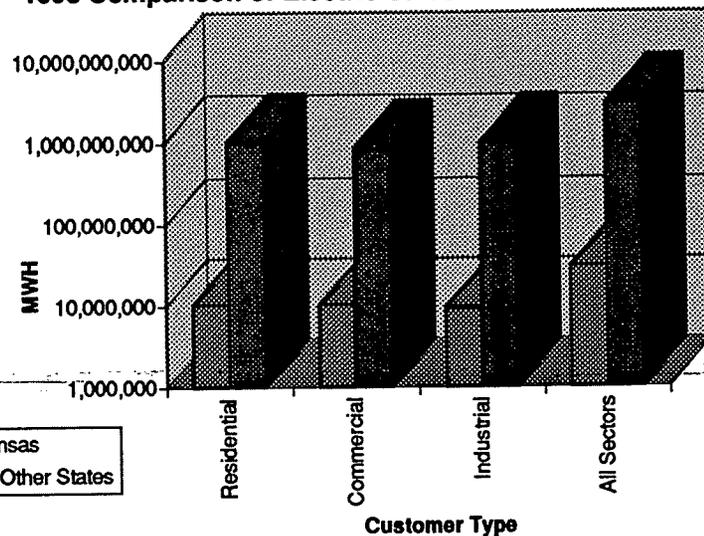
**Selected
States
Electric
Rate
Comparison**

Comparison of Electric Sales (in MWH)		
	Kansas	Entire US
Residential	10,355,800	1,042,501,000
Commercial	10,273,412	862,685,000
Industrial	9,356,007	1,012,693,000
All Sectors	30,356,882	3,013,287,000

Comparison of Electric Revenue in \$1,000		
	Kansas	Entire US
Residential	820,443	87,609,598
Commercial	686,604	66,364,681
Industrial	450,662	47,175,456
All Sectors	1,991,911	207,716,891

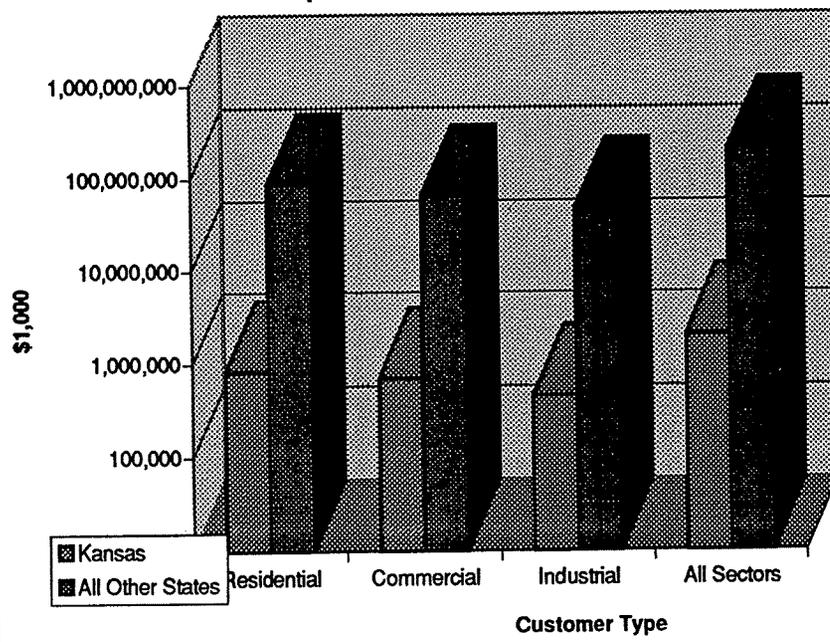
Comparison of Electric Rates in cents/kWH		
	Kansas	Entire US
Residential	7.92	8.40
Commercial	6.68	7.69
Industrial	4.82	4.66
All Sectors	6.56	6.89

1995 Comparison of Electric Sales



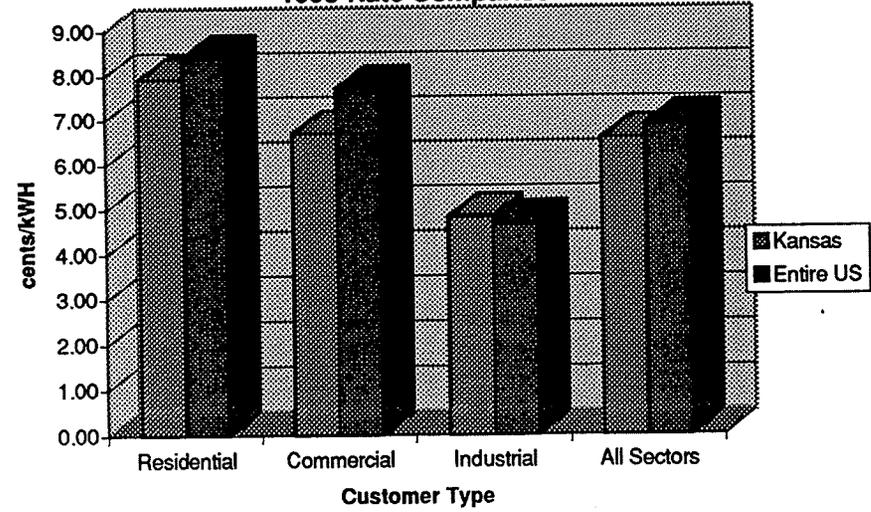
Kansas
 All Other States

1995 Comparison of Electric Revenue



Kansas
 All Other States

1995 Rate Comparison



Kansas
 Entire US

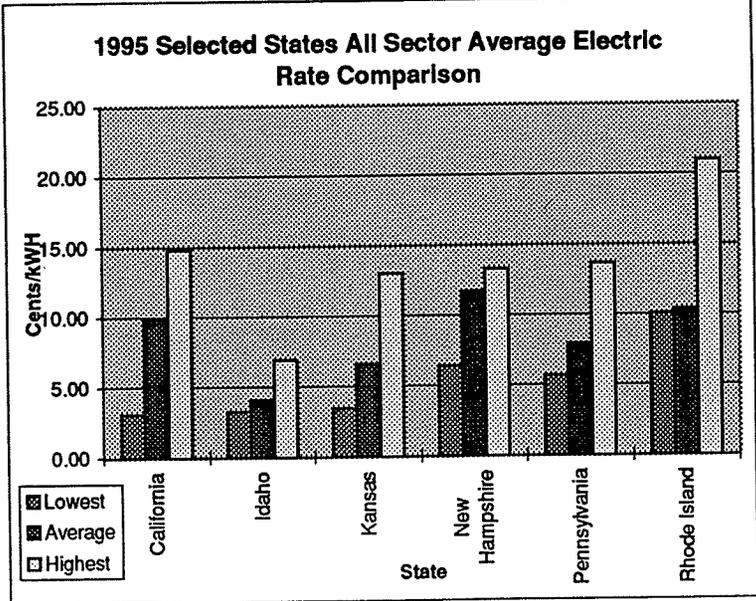
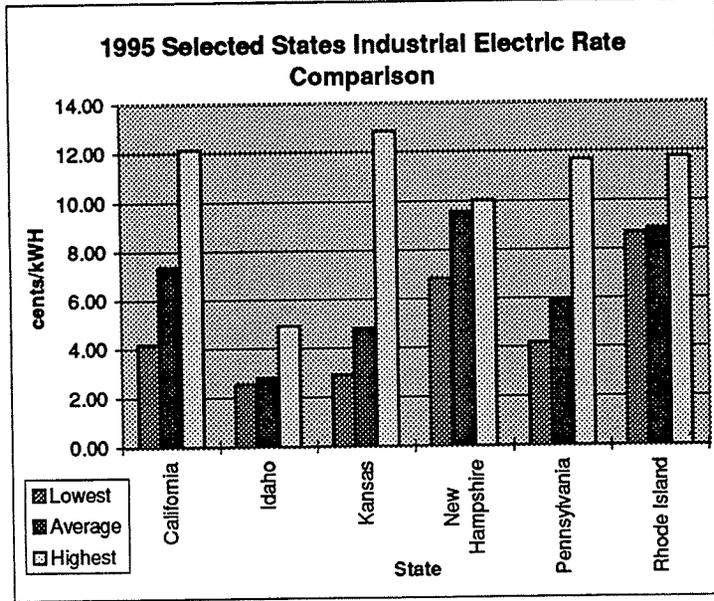
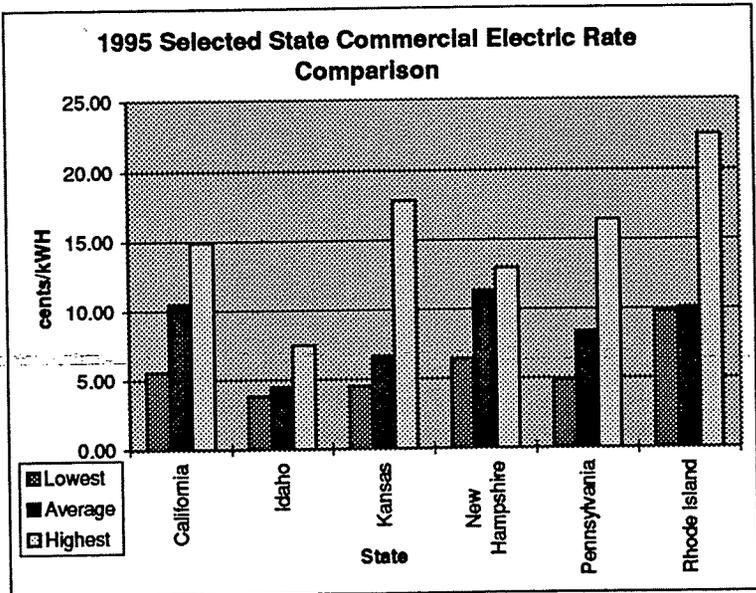
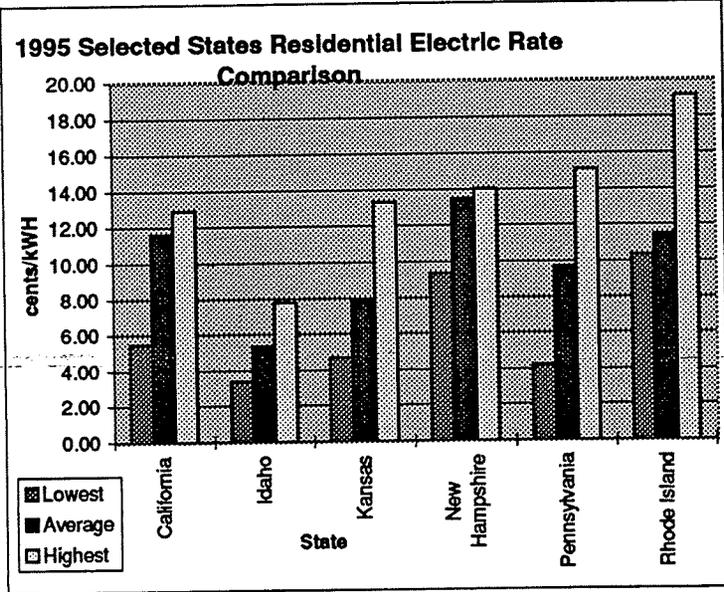
4-33

1995 Selected State Comparison Residential Rates (cents/kWH)			
State	Lowest	Average	Highest
California	5.49	11.61	12.88
Idaho	3.40	5.33	7.76
Kansas	4.71	7.92	13.32
New Hampshire	9.38	13.50	14.03
Pennsylvania	4.25	9.72	15.09
Rhode Island	10.37	11.47	19.10

1995 Selected State Comparison Commercial Rates (cents/kWH)			
State	Lowest	Average	Highest
California	5.61	10.49	14.90
Idaho	3.81	4.48	7.47
Kansas	4.52	6.68	17.82
New Hampshire	6.41	11.38	13.01
Pennsylvania	4.86	8.33	16.42
Rhode Island	9.83	10.08	22.49

1995 Selected State Comparison Industrial Rates (cents/kWH)			
State	Lowest	Average	Highest
California	4.19	7.37	12.15
Idaho	2.53	2.81	4.93
Kansas	2.90	4.82	12.84
New Hampshire	6.84	9.56	10.02
Pennsylvania	4.19	5.92	11.67
Rhode Island	8.71	8.87	11.77

1995 Selected State Comparison All Sector Average Rates (cents/kWH)			
State	Lowest	Average	Highest
California	3.07	9.91	14.82
Idaho	3.25	4.09	6.91
Kansas	3.43	6.56	13.01
New Hampshire	6.41	11.72	13.30
Pennsylvania	5.65	7.93	13.67
Rhode Island	10.07	10.38	20.99



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Electric
Generation
Information

Table 20. Existing Generating Units at U.S. Electric Utilities by State, Company, and Plant, as of January 1, 1996 (Continued)

State Company Plant (County)	Unit ID	Generator Nameplate Capacity (megawatts)	Net Summer Capability (megawatts)	Net Winter Capability (megawatts)	Unit Type ²	Energy Source ²		Year of Commercial Operation	Unit Status ²
						Primary	Alternate		
Kansas									
Kansas Subtotal.....		10,475.7	9,675.3	9,753.8					
Anthony City of.....		11.1	11.1	11.1					
Anthony (Harper).....	IC1	4.1	4.1	4.1	IC	Nat Gas	FO2	1972	OP
	IC2	3.0	3.0	3.0	IC	Nat Gas	--	1976	OP
	IC3	4.0	4.0	4.0	IC	Nat Gas	FO2	1981	OP
Ashland City of.....		5.0	4.3	4.4					
Ashland (Clark).....	1	.7	.7	.7	IC	Nat Gas	FO2	1953	OP
	2	.9	.8	.8	IC	Nat Gas	FO2	1974	OP
	3	1.3	1.1	1.1	IC	Nat Gas	FO2	1963	OP
	4	1.3	1.1	1.1	IC	Nat Gas	FO2	1958	OP
	5	.9	.7	.7	IC	FO2	--	1971	OP
Attica City of.....		3.2	2.7	3.0					
Attica (Harper).....	IC3	E 1.1	E 1.0	E 1.1	IC	FO2	Nat Gas	1984	OP
	1	E .5	E .5	E .5	IC	FO2	Nat Gas	1954	OP
	2	E .9	E .8	E .8	IC	FO2	Nat Gas	1970	OP
	4	.3	.3	.3	IC	FO2	Nat Gas	1961	OP
	5	.3	.3	.3	IC	FO2	Nat Gas	1961	OP
Augusta City of.....		23.7	23.7	23.7					
Plant No 1 (Butler).....	1	1.1	1.1	1.1	IC	Nat Gas	FO2	1954	OP
	2	.4	.4	.4	IC	FO2	--	1929	OP
	3	1.0	1.0	1.0	IC	Nat Gas	FO2	1949	OP
	4	.7	.7	.7	IC	FO2	--	1939	OP
	5	2.3	2.3	2.3	IC	Nat Gas	FO2	1956	OP
	6	2.3	2.3	2.3	IC	Nat Gas	FO2	1956	OP
	7	2.0	2.0	2.0	IC	Nat Gas	FO2	1964	OP
Plant No 2 (Butler).....	1	4.0	4.0	4.0	IC	Nat Gas	FO2	1968	OP
	2	4.0	4.0	4.0	IC	Nat Gas	FO2	1968	OP
	3	6.0	6.0	6.0	IC	Nat Gas	FO2	1981	OP
Baldwin City City of.....		6.1	4.6	5.2					
Baldwin (Douglas).....	1	.6	.4	.4	IC	FO2	Nat Gas	1950	OP
	3	1.1	1.0	1.0	IC	FO2	Nat Gas	1956	OP
	4	2.1	1.8	1.8	IC	FO2	Nat Gas	1970	OP
	5	1.1	.7	1.0	IC	FO2	Nat Gas	1964	OP
	6	1.1	.7	1.0	IC	FO2	Nat Gas	1964	OP
Belleville City of.....		13.1	13.1	13.1					
Belleville (Republic).....	1	.6	.6	.6	IC	FO2	Nat Gas	1946	OP
	2	.6	.6	.6	IC	FO2	Nat Gas	1946	OP
	3	.3	.3	.3	IC	FO2	Nat Gas	1946	OP
	4	1.0	1.0	1.0	IC	FO2	Nat Gas	1955	OP
	5	1.8	1.8	1.8	IC	FO2	Nat Gas	1961	OP
	6	3.8	3.8	3.8	IC	FO2	Nat Gas	1966	OP
	7	5.1	5.1	5.1	IC	FO2	Nat Gas	1971	OP
Beloit City of.....		19.4	17.8	17.8					
Beloit (Mitchell).....	1	1.5	1.0	1.0	IC	FO2	Nat Gas	1951	OP
	2	1.5	1.0	1.0	IC	FO2	Nat Gas	1951	OP
	3	2.0	2.0	2.0	IC	FO2	Nat Gas	1961	OP
	4	3.5	3.3	3.3	IC	FO2	Nat Gas	1964	OP
	5	.8	.7	.7	IC	FO2	Nat Gas	1950	OP
	6	4.1	3.8	3.8	IC	FO2	Nat Gas	1971	OP
	7	6.0	6.0	6.0	IC	FO2	Nat Gas	1980	OP
Burlingame City of.....		4.6	4.1	4.4					
Burlingame (Osage).....	1	1.1	1.1	1.1	IC	FO2	Nat Gas	1973	OP
	2	.6	.4	.5	IC	FO2	Nat Gas	1951	OP
	3	.9	.8	.9	IC	FO2	Nat Gas	1963	OP
	4	1.1	1.1	1.1	IC	FO2	Nat Gas	1969	OP
	5	.9	.8	.9	IC	FO2	Nat Gas	1980	OP
Burlington City of.....		8.5	8.4	8.4					
Burlington (Coffey).....	IC6	4.8	4.8	4.8	IC	Nat Gas	FO2	1983	OP
	1	.3	.3	.3	IC	FO2	--	1935	OP
	2	1.3	1.3	1.3	IC	Nat Gas	FO2	1962	OP
	3	.8	.8	.8	IC	Nat Gas	FO2	1954	OP
	4	.3	.3	.3	IC	FO2	--	1946	OP
	5	1.0	1.0	1.0	IC	Nat Gas	FO2	1955	OP
Chanute City of.....		52.6	51.5	52.1					
Chanute 1 (Neosho).....	4	4.0	4.0	4.2	ST	Nat Gas	FO6	1949	OP
	5	1.7	1.5	1.7	IC	Nat Gas	FO2	1955	OP
	6	10.0	9.8	10.0	ST	Nat Gas	FO6	1957	OP

See footnotes at end of table.

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Table 1. Existing Generating Units at U.S. Electric Utilities by State, Company, and Plant, as of January 1, 1996 (Continued)

State Company Plant (County)	Unit ID	Generator Nameplate Capacity (megawatts)	Net Summer Capability (megawatts)	Net Winter Capability (megawatts)	Unit Type ²	Energy Source ²		Year of Commercial Operation	Unit Status ²
						Primary	Alternate		
Kansas (Continued)									
Chanute 2 (Neosho).....	7	2.0	2.0	2.0	IC	Nat Gas	FO2	1965	OP
	8	2.0	2.0	2.0	IC	Nat Gas	FO2	1965	OP
Chanute 3 (Neosho).....	10	7.0	6.9	6.9	IC	FO2	Nat Gas	1986	OP
	11	7.0	6.9	6.9	IC	FO2	Nat Gas	1986	OP
	12	6.0	5.5	5.5	IC	FO2	--	1991	OP
	13	6.0	6.0	6.0	IC	FO2	--	1991	OP
	9	7.0	6.9	6.9	IC	FO2	Nat Gas	1985	OP
Clay Center City of.....		17.6	17.5	17.5					
Clay Center (Clay).....	IC1	.9	.9	.9	IC	Nat Gas	FO2	1958	OP
	IC2	2.1	2.1	2.1	IC	Nat Gas	FO2	1966	OP
	IC3	5.1	5.0	5.0	IC	Nat Gas	FO2	1972	OP
	4	1.5	1.5	1.5	ST	Nat Gas	FO5	1942	OP
	5	3.0	3.0	3.0	ST	Nat Gas	FO5	1948	OP
	6	5.0	5.0	5.0	ST	Nat Gas	FO5	1961	OP
Coffeyville City of.....		58.5	55.5	58.5					
Coffeyville (Montgomery).....	6	18.5	17.5	18.5	ST	Nat Gas	--	1956	OP
	7	40.0	38.0	40.0	ST	Nat Gas	--	1973	OP
Colby City of.....		17.4	13.6	13.6					
Colby (Thomas).....	3	2.5	1.8	1.8	IC	FO2	Nat Gas	1963	OP
	4	1.8	1.3	1.3	IC	FO2	Nat Gas	1958	OP
	5	1.4	1.0	1.0	IC	FO2	Nat Gas	1958	OP
	6	4.5	3.5	3.5	IC	FO2	Nat Gas	1971	OP
	7	4.5	3.5	3.5	IC	FO2	Nat Gas	1971	OP
	8	2.8	2.5	2.5	IC	FO2	Nat Gas	1971	OP
Ellinwood City of.....		8.5	7.7	7.7					
Ellinwood (Barton).....	1	2.1	1.9	1.9	IC	FO2	Nat Gas	1965	OP
	2	1.4	1.3	1.3	IC	FO2	Nat Gas	1957	OP
	3	.6	.5	.5	IC	FO2	Nat Gas	1948	OP
	4	1.1	1.0	1.0	IC	FO2	Nat Gas	1953	OP
	5	3.3	3.0	3.0	IC	FO2	Nat Gas	1971	OP
Empire District Electric Co		132.6	137.5	137.5					
Riverton (Cherokee).....	10	16.3	16.5	16.5	GT	Nat Gas	FO2	1988	OP
	11	16.3	16.5	16.5	GT	Nat Gas	FO2	1988	OP
	7	37.5	38.0	38.0	ST	SUB	BIT	1950	OP
	8	50.0	54.0	54.0	ST	SUB	BIT	1954	OP
	9	12.5	12.5	12.5	GT	Nat Gas	FO2	1964	OP
Erie City of.....		4.8	4.4	4.4					
Erie (Neosho).....	1	.7	.6	.6	IC	FO2	--	1953	OP
	3	1.3	1.0	1.0	IC	FO2	--	1958	OP
	4	1.5	1.5	1.5	IC	FO2	--	1964	OP
	5	1.0	1.0	1.0	IC	FO2	--	1992	OP
	6	.4	.3	.3	IC	FO2	--	1992	OP
Fredonia City of.....		7.4	7.0	7.0					
Fredonia (Wilson).....	IC5	.9	.9	.9	IC	FO2	Nat Gas	1978	OP
	IC6	.9	.9	.9	IC	FO2	Nat Gas	1978	OP
	IC7	.7	.7	.7	IC	FO2	Nat Gas	1978	OP
	IC8	.9	.9	.9	IC	FO2	Nat Gas	1980	OP
	IC9	.9	.8	.8	IC	FO2	Nat Gas	1980	OP
	1	.9	.8	.8	IC	FO2	Nat Gas	1948	OP
	2	1.3	1.3	1.3	IC	FO2	Nat Gas	1953	OP
	3	.4	.3	.3	IC	FO2	Nat Gas	1927	OP
	4	.6	.5	.5	IC	FO2	Nat Gas	1931	OP
Gardner City of.....		39.2	31.0	31.0					
Gardner (Johnson).....	CT1	19.6	15.0	15.0	GT	FO2	Nat Gas	1990	OP
	CT2	19.6	16.0	16.0	GT	FO2	Nat Gas	1990	OP
Garnett City of.....		9.3	8.4	8.4					
Garnett Municipal (Anderson).....	IC5	2.4	2.2	2.2	IC	Nat Gas	FO2	1981	OP
	IC6	2.5	2.3	2.3	IC	FO2	--	1978	OP
	1	1.5	1.4	1.4	IC	Nat Gas	FO2	1961	OP
	2	.4	.4	.4	IC	FO2	--	1930	OP
	3	1.5	1.4	1.4	IC	Nat Gas	FO2	1955	OP
	4	1.0	.9	.9	IC	Nat Gas	FO2	1948	OP
Girard City of.....		3.7	2.9	3.3					
Girard (Crawford).....	1	1.4	1.1	1.3	IC	Nat Gas	FO2	1955	OS
	4	2.3	1.8	2.0	IC	Nat Gas	FO2	1962	OS
Goodland City of.....		18.9	16.9	18.8					
Goodland (Sherman).....	10	2.1	1.8	2.1	IC	Nat Gas	FO2	1971	OP

See footnotes at end of table.

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Table 20. Existing Generating Units at U.S. Electric Utilities by State, Company, and Plant, as of January 1, 1996 (Continued)

State Company Plant (County)	Unit ID	Generator Nameplate Capacity (megawatts)	Net Summer Capability (megawatts)	Net Winter Capability (megawatts)	Unit Type ²	Energy Source ²		Year of Commercial Operation	Unit Status ²
						Primary	Alternate		
Kansas (Continued)									
	11	4.3	3.8	4.3	IC	Nat Gas	FO2	1978	OP
	12	1.0	.9	1.0	IC	Nat Gas	FO2	1995	OP
	3	.8	.8	.8	IC	FO2	--	1939	OP
	5	1.3	.9	1.1	IC	Nat Gas	FO2	1950	OP
	6	2.3	2.0	2.3	IC	Nat Gas	FO2	1962	OP
	7	2.3	2.0	2.3	IC	Nat Gas	FO2	1966	OP
	8	5.0	4.8	5.0	IC	Nat Gas	FO2	1975	OP
Greensburg City of Greensburg (Kiowa)	1	7.8	7.4	7.4	IC	Nat Gas	FO2	1966	OP
	3	2.1	2.0	2.0	IC	Nat Gas	FO2	1963	OP
	4	1.1	1.1	1.1	IC	Nat Gas	FO2	1956	OP
	5	1.1	1.1	1.1	IC	Nat Gas	FO2	1972	OP
	5	2.1	1.9	1.9	IC	Nat Gas	FO2	1972	OP
	6	1.4	1.3	1.3	IC	Nat Gas	FO2	1983	OP
Herington City of		9.7	7.0	7.7					
Herington (Dickinson)	1	2.1	1.6	1.8	IC	Nat Gas	FO2	1968	OP
	2	1.4	1.0	1.1	IC	Nat Gas	FO2	1962	OP
	3	4.3	3.1	3.5	IC	Nat Gas	FO2	1973	OP
	4	.8	.3	.3	IC	FO2	--	1947	SB
	5	1.1	1.0	1.0	IC	Nat Gas	FO2	1951	OP
Hemdon City of3	.3	.3					
City Light Plant (Rawlins) .	1	.3	.3	.3	IC	FO2	--	1950	OP
Hill City City of		7.3	6.4	6.5					
Hill City (Graham)	1	1.4	1.2	1.2	IC	Nat Gas	FO2	1962	OP
	2	1.4	1.2	1.2	IC	Nat Gas	FO2	1962	OP
	3	.7	.6	.6	IC	Nat Gas	FO2	1952	OP
	4	1.1	1.0	1.0	IC	Nat Gas	FO2	1967	OP
	5	1.4	1.3	1.3	IC	Nat Gas	FO2	1974	OP
	6	1.4	1.3	1.3	IC	Nat Gas	FO2	1974	OP
Hoisington City of		13.2	13.2	13.2					
Hoisington (Barton)	1	.2	.2	.2	IC	FO2	--	1940	OP
	6	2.0	2.0	2.0	IC	Nat Gas	FO2	1961	OP
	7	4.0	4.0	4.0	IC	Nat Gas	FO2	1966	OP
	8	7.0	7.0	7.0	IC	Nat Gas	FO2	1981	OP
Holton City of		16.3	14.2	15.7					
Holton (Jackson)	10	2.0	1.8	2.0	IC	FO2	Nat Gas	1978	OP
	11	2.5	2.3	2.4	IC	FO2	Nat Gas	1994	OP
	5	.9	.7	.9	IC	FO2	Nat Gas	1951	OP
	6	1.8	1.4	1.8	IC	FO2	Nat Gas	1958	OP
	7	2.8	2.4	2.7	IC	FO2	Nat Gas	1963	OP
	8	4.3	3.9	4.0	IC	FO2	Nat Gas	1969	OP
	9	2.0	1.8	2.0	IC	FO2	Nat Gas	1978	OP
Hugoton City of		15.8	14.1	14.1					
Hugoton 1 (Stevens)	1	.8	.6	.6	IC	FO2	Nat Gas	1949	OP
	2	.2	.1	.1	IC	FO2	Nat Gas	1929	OP
	4	.4	.4	.4	IC	FO2	Nat Gas	1940	OP
	6	1.4	1.2	1.2	IC	FO2	Nat Gas	1959	OP
Hugoton 2 (Stevens)	10	4.3	4.0	4.0	IC	FO2	Nat Gas	1983	OP
	7	2.3	2.1	2.1	IC	FO2	Nat Gas	1964	OP
	8	2.1	1.8	1.8	IC	FO2	Nat Gas	1971	OP
	9A	4.3	4.0	4.0	IC	FO2	Nat Gas	1994	OP
Iola City of		28.5	30.7	30.7					
Iola (Allen)	10	2.8	2.9	2.9	IC	FO2	--	1981	OP
	11	2.1	2.2	2.2	IC	FO2	--	1988	OP
	12	2.1	2.0	2.0	IC	FO2	--	1988	OP
	13	2.1	2.1	2.1	IC	FO2	--	1988	OP
	4	3.5	4.4	4.4	ST	Nat Gas	FO5	1949	OP
	5	5.0	5.4	5.4	ST	Nat Gas	FO5	1957	OP
	6	2.8	3.0	3.0	IC	FO2	--	1969	OP
	7	2.7	2.9	2.9	IC	FO2	--	1971	OP
	8	2.8	3.0	3.0	IC	FO2	--	1976	OP
	9	2.8	3.0	3.0	IC	FO2	--	1977	OP
Jetmore City of		6.0	6.0	6.0					
Jetmore (Hodgeman)	1	1.0	1.0	1.0	IC	FO2	Nat Gas	1960	OP
	2	.4	.4	.4	IC	FO2	Nat Gas	1951	OP
	3	.2	.2	.2	IC	FO2	Nat Gas	1946	OP
	4	.8	.8	.8	IC	FO2	Nat Gas	1964	OP
	5	1.5	1.5	1.5	IC	FO2	Nat Gas	1966	OP
	6	1.2	1.2	1.2	IC	FO2	--	1966	OP

See footnotes at end of table.

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Table 4. Existing Generating Units at U.S. Electric Utilities by State, Company, and Plant, as of January 1, 1996 (Continued)

State Company Plant (County)	Unit ID	Generator Nameplate Capacity, (megawatts)	Net Summer Capability (megawatts)	Net Winter Capability (megawatts)	Unit Type ²	Energy Source ²		Year of Commercial Operation	Unit Status ²
						Primary	Alternate		
Kansas (Continued)									
	7	0.9	0.9	0.9	IC	FO2	--	1966	OP
Johnson City of		6.8	5.5	5.5					
Johnson (Stanton)	IC6	1.5	1.3	1.3	IC	FO2	Nat Gas	1986	OP
	1	.6	.6	.6	IC	FO2	Nat Gas	1959	OP
	2	1.0	.8	.8	IC	FO2	Nat Gas	1963	OP
	4	.5	.2	.2	IC	FO2	Nat Gas	1954	OP
	5	.4	.3	.3	IC	FO2	Nat Gas	1950	OP
	7	1.5	1.3	1.3	IC	FO2	Nat Gas	1983	OP
	8	1.3	1.2	1.2	IC	Nat Gas	FO2	1993	OP
Kansas City City of		806.9	676.0	676.0					
Kaw (Wyandotte).....	1	46.0	37.0	37.0	ST	BIT	Nat Gas	1955	OP
	2	50.0	37.0	37.0	ST	BIT	Nat Gas	1957	OS
	3	65.3	55.0	55.0	ST	BIT	Nat Gas	1962	OP
Nearman Creek (Wyandotte).....	1	261.0	235.0	235.0	ST	SUB	--	1981	OP
Quindaro (Wyandotte).....	GT1	15.3	14.0	14.0	GT	Nat Gas	FO2	1969	OP
	GT2	65.5	45.0	45.0	GT	FO2	--	1974	OP
	GT3	64.7	45.0	45.0	GT	FO2	--	1977	OP
	ST1	81.6	73.0	73.0	ST	BIT	Nat Gas	1965	OP
	ST2	157.5	135.0	135.0	ST	BIT	Nat Gas	1971	OP
Kansas City Power & Light Co.....		1,578.0	1,344.0	1,344.0					
La Cygne (Linn).....	**1	893.0	682.0	682.0	ST	BIT	--	1973	OP
	**2	685.0	662.0	662.0	ST	SUB	--	1977	OP
Kingman City of		21.6	20.0	20.3					
Kingman (Kingman).....	1	1.4	1.2	1.2	IC	Nat Gas	FO2	1955	OP
	2	2.3	1.9	2.0	IC	Nat Gas	FO2	1962	OP
	4	2.2	1.9	2.0	IC	Nat Gas	FO2	1977	OP
	5	1.0	.8	.9	IC	Nat Gas	FO2	1953	OP
	6	3.5	3.4	3.4	IC	Nat Gas	FO2	1969	OP
	7	2.4	2.1	2.1	IC	Nat Gas	FO2	1979	OP
	8	2.5	2.4	2.4	IC	Nat Gas	FO2	1984	OP
	9	6.3	6.3	6.3	IC	Nat Gas	FO2	1993	OP
KG&E a Western Resources Co.....		950.3	920.1	920.1					
Gordon Evans (Sedgwick)	1	136.0	150.0	150.0	ST	Nat Gas	FO6	1961	OP
	2	389.7	367.0	367.0	ST	Nat Gas	FO6	1967	OP
Murray Gill (Sedgwick)	1	46.0	46.0	46.0	ST	Nat Gas	FO6	1952	OP
	2	75.0	74.0	74.0	ST	Nat Gas	FO6	1954	OP
	3	113.6	107.0	107.0	ST	Nat Gas	FO6	1956	OP
	4	113.6	106.0	106.0	ST	Nat Gas	FO6	1959	OP
Neosho (Lafayette).....	3	73.5	67.1	67.1	ST	Nat Gas	FO6	1954	SB
Wichita (Sedgwick).....	5	2.9	3.0	3.0	IC	FO2	--	1969	OP
KPL, a Western Resources Co.....		3,718.8	3,534.0	3,534.0					
Abilene (Dickinson).....	GT1	86.0	66.0	66.0	GT	Nat Gas	FO2	1973	OP
	GT1	79.1	51.0	51.0	GT	Nat Gas	FO2	1974	OP
Hutchinson (Reno).....	GT2	79.1	49.0	49.0	GT	Nat Gas	FO2	1974	OP
	GT3	79.1	54.0	54.0	GT	Nat Gas	FO2	1974	OP
	GT4	84.3	78.0	78.0	GT	FO2	--	1975	OP
	ST1	23.0	18.0	18.0	ST	Nat Gas	FO6	1950	OP
	ST2	22.5	17.0	17.0	ST	Nat Gas	FO6	1950	OP
	ST3	34.5	28.0	28.0	ST	Nat Gas	FO6	1951	OP
	ST4	171.7	197.0	197.0	ST	Nat Gas	FO6	1965	OP
Jeffrey Energy Centr (Pottawatomie).....	**1	720.0	698.0	698.0	ST	SUB	--	1978	OP
	**2	720.0	735.0	735.0	ST	SUB	--	1980	OP
	**3	720.0	703.0	703.0	ST	SUB	--	1983	OP
Lawrence (Douglas).....	2	37.5	26.0	26.0	ST	Nat Gas	FO6	1952	SB
	3	49.0	56.0	56.0	ST	SUB	Nat Gas	1954	OP
	4	114.5	113.0	113.0	ST	SUB	Nat Gas	1960	OP
	5	403.2	370.0	370.0	ST	SUB	Nat Gas	1971	OP
Tecumseh (Shawnee).....	1	32.0	19.0	19.0	GT	Nat Gas	FO2	1972	OP
	2	32.0	20.0	20.0	GT	Nat Gas	FO2	1972	OP
	7	81.6	88.0	88.0	ST	SUB	Nat Gas	1957	OP
	8	149.6	148.0	148.0	ST	SUB	Nat Gas	1962	OP
La Crosse City of.....		6.6	5.5	5.5					
La Crosse (Rush).....	1	1.1	.7	.7	IC	FO2	Nat Gas	1962	OP

See footnotes at end of table.

Table 20. Existing Generating Units at U.S. Electric Utilities by State, Company, and Plant, as of January 1, 1996 (Continued)

State Company Plant (County)	Unit ID	Generator Nameplate Capacity (megawatts)	Net Summer Capability (megawatts)	Net Winter Capability (megawatts)	Unit Type ²	Energy Source ²		Year of Commercial Operation	Unit Status ²
						Primary	Alternate		
Kansas (Continued)									
	2	1.1	0.9	0.9	IC	FO2	Nat Gas	1964	OP
	3	.7	.6	.6	IC	FO2	Nat Gas	1950	OP
	4	.3	.3	.3	IC	FO2	Nat Gas	1938	OP
	5	1.5	1.5	1.5	IC	FO2	Nat Gas	1969	OP
	6	1.8	1.5	1.5	IC	FO2	Nat Gas	1975	OP
Lakin City of.....		4.4	4.1	4.1					
Lakin Municipal (Keamy).....	LK1	4.4	4.1	4.1	IC	Nat Gas	FO2	1990	OP
Lamed City of.....		20.6	20.5	20.5					
Gas Turbine (Pawnee).....	GT1	1.3	1.0	1.0	GT	Nat Gas	--	1955	OS
Lamed (Pawnee).....	IC5	6.5	6.0	6.0	IC	FO2	Nat Gas	1976	OP
	1	1.5	1.5	1.5	ST	Nat Gas	FO6	1939	OS
	2	3.0	3.0	3.0	ST	Nat Gas	FO6	1948	OS
	3	8.3	9.0	9.0	ST	Nat Gas	FO6	1966	OP
Lincoln Center City of.....		10.7	9.1	9.1					
Lincoln (Lincoln).....	1	1.3	1.1	1.1	IC	Nat Gas	FO2	1964	OS
	2	1.3	1.1	1.1	IC	Nat Gas	FO2	1964	OS
	4	.8	.6	.6	IC	Nat Gas	FO2	1958	OS
	5	1.3	1.1	1.1	IC	Nat Gas	FO2	1960	OS
	6	2.5	2.2	2.2	IC	FO2	Nat Gas	1979	OS
	7	3.5	3.0	3.0	IC	FO2	Nat Gas	1974	OS
McPherson City of		197.0	182.4	206.6					
McPherson 2 (McPherson)	GT1	56.4	52.9	60.0	GT	Nat Gas	FO2	1973	OP
	GT2	56.4	50.9	60.0	GT	FO2	--	1976	OP
	GT3	57.6	52.0	60.0	GT	Nat Gas	FO2	1979	OP
	1	26.6	26.6	26.6	ST	Nat Gas	FO6	1963	OP
Meade City of.....		8.7	8.1	8.7					
Meade (Meade).....	1	.5	.4	.5	IC	FO2	Nat Gas	1948	OP
	2	.9	.8	.9	IC	FO2	Nat Gas	1951	OP
	3	1.1	1.1	1.1	IC	FO2	Nat Gas	1957	OP
	4	1.4	1.3	1.4	IC	FO2	Nat Gas	1961	OP
	5	2.1	2.0	2.2	IC	FO2	Nat Gas	1965	OP
	6	2.7	2.5	2.7	IC	FO2	Nat Gas	1972	OP
Midwest Energy Inc		35.7	32.4	32.4					
Bird City (Cheyenne).....	1	2.0	2.0	2.0	IC	FO2	--	1965	OP
	2	2.0	2.0	2.0	IC	FO2	--	1966	OP
Colby (Thomas).....	GT1	16.0	13.0	13.0	GT	Nat Gas	FO2	1970	OP
Ellis (Ellis).....	1	1.0	1.0	1.0	IC	Nat Gas	FO2	1960	OP
	2	2.0	2.0	2.0	IC	Nat Gas	FO2	1965	OP
	3	.6	.5	.5	IC	Nat Gas	FO4	1947	OP
	4	.6	.5	.5	IC	Nat Gas	FO5	1954	OP
	5	1.6	1.4	1.4	IC	Nat Gas	--	1973	OP
Great Bend (Barton).....	1	1.0	1.0	1.0	IC	Nat Gas	FO2	1947	OP
	2	1.0	1.0	1.0	IC	Nat Gas	FO2	1947	OP
	3	1.0	1.0	1.0	IC	Nat Gas	FO4	1949	OP
	4	1.0	1.0	1.0	IC	Nat Gas	FO5	1949	OP
	5	3.0	3.0	3.0	IC	Nat Gas	FO6	1954	OP
	6	3.0	3.0	3.0	IC	Nat Gas	FO2	1954	OP
Minneapolis City of.....		10.2	9.0	9.0					
Minneapolis (Ottawa).....	1	.4	.4	.4	IC	FO2	--	1936	OP
	2	.7	.5	.5	IC	Nat Gas	FO2	1947	OP
	3	1.3	1.2	1.2	IC	Nat Gas	FO2	1961	OP
	4	.7	.6	.6	IC	Nat Gas	FO2	1955	OP
	5	2.1	1.8	1.8	IC	Nat Gas	FO2	1966	OP
	6	3.0	2.8	2.8	IC	Nat Gas	FO2	1972	OP
	7	2.0	1.8	1.8	IC	FO2	--	1989	OP
Mulvane City of.....		6.3	6.9	6.9					
Mulvane (Sedgwick).....	1	.4	.3	.3	IC	FO2	--	1949	OP
	2	.3	.3	.4	IC	FO2	--	1945	OP
	3	1.4	1.6	1.6	IC	Nat Gas	FO2	1963	OP
	4	1.4	1.5	1.5	IC	FO2	Nat Gas	1958	OP
	5	.8	.8	.8	IC	FO2	Nat Gas	1967	OP
	6	2.1	2.3	2.3	IC	FO2	Nat Gas	1967	OP
Neodesha City of		8.2	7.8	7.8					
Neodesha (Wilson).....	5	1.3	1.0	1.0	IC	FO2	Nat Gas	1952	OP
	6	2.3	2.2	2.2	IC	FO2	Nat Gas	1956	OP
	7	2.0	2.0	2.0	IC	FO2	Nat Gas	1962	OP
	8	2.7	2.6	2.6	IC	FO2	Nat Gas	1968	OP
Norton City of.....		11.3	10.1	10.1					

See footnotes at end of table.

Table A-1 Existing Generating Units at U.S. Electric Utilities by State, Company, and Plant, as of January 1, 1996 (Continued)

State Company Plant (County)	Unit ID	Generator Nameplate Capacity (megawatts)	Net Summer Capability (megawatts)	Net Winter Capability (megawatts)	Unit Type ²	Energy Source ²		Year of Commercial Operation	Unit Status ²
						Primary	Alternate		
Kansas (Continued)									
Norton (Norton).....	1	1.0	0.9	0.9	IC	Nat Gas	FO2	1955	OP
	2	1.5	1.4	1.4	IC	Nat Gas	FO2	1960	OP
	3	2.8	2.5	2.5	IC	Nat Gas	FO2	1963	OP
	4	3.5	3.2	3.2	IC	Nat Gas	FO2	1968	OP
	5	2.5	2.3	2.3	IC	FO2	--	1977	OP
Oakley City of.....		8.2	7.5	7.8					
Oakley (Logan).....	1	1.4	1.3	1.3	IC	FO2	Nat Gas	1961	OP
	2	.4	.3	.4	IC	FO2	--	1948	OP
	3	.6	.5	.5	IC	FO2	Nat Gas	1951	OP
	4	.9	.9	.9	IC	FO2	Nat Gas	1956	OP
	5	1.5	1.4	1.5	IC	FO2	Nat Gas	1965	OP
	6	3.4	3.2	3.3	IC	FO2	Nat Gas	1973	OP
Oberlin City of.....		7.0	5.6	5.6					
Oberlin (Decatur).....	1	1.1	.9	.9	IC	Nat Gas	FO2	1956	OP
	2	.8	.6	.6	IC	Nat Gas	FO2	1954	OP
	4	1.5	1.2	1.2	IC	Nat Gas	FO2	1967	OP
	5	2.0	1.6	1.6	IC	Nat Gas	FO2	1973	OP
	6	1.5	1.2	1.2	IC	Nat Gas	FO2	1963	OP
Osage City City of.....		9.5	8.2	8.2					
Osage City (Osage).....	IC6	1.1	.9	.9	IC	FO2	Nat Gas	1983	OP
	1	1.1	.9	.9	IC	FO2	Nat Gas	1955	OP
	2	1.3	1.1	1.1	IC	FO2	Nat Gas	1960	OP
	4	2.1	1.9	1.9	IC	FO2	Nat Gas	1967	OP
	5	2.1	1.9	1.9	IC	FO2	Nat Gas	1970	OP
	7	1.8	1.5	1.5	IC	FO2	Nat Gas	1984	OP
Osawatimie City of		7.0	5.9	6.0					
Osawatimie (Miami).....	2	2.3	1.8	1.9	IC	FO2	Nat Gas	1957	OP
	3	.4	.3	.3	IC	FO2	--	1934	OS
	4	1.2	1.0	1.0	IC	FO2	Nat Gas	1950	OP
	5	3.1	2.8	2.8	IC	FO2	Nat Gas	1966	OP
Osborne City of.....		7.2	6.1	6.7					
Osborne (Osborne).....	1	2.3	1.8	2.0	IC	FO2	Nat Gas	1967	OP
	2	2.0	1.8	2.0	IC	FO2	Nat Gas	1963	OP
	3	1.1	.7	.9	IC	FO2	Nat Gas	1957	OP
	6	.5	.5	.5	IC	Nat Gas	--	1992	OP
	7	.5	.5	.5	IC	Nat Gas	--	1992	OP
	8	.8	.8	.8	IC	Nat Gas	--	1994	OP
Ottawa City of.....		30.8	27.9	29.6					
Ottawa (Franklin).....	GT1	11.5	9.0	10.5	GT	Nat Gas	--	1967	OP
	IC3	3.8	3.7	3.7	IC	Nat Gas	FO2	1962	OP
	IC4	3.5	3.4	3.5	IC	Nat Gas	FO2	1958	OP
	IC6	6.0	5.9	6.0	IC	Nat Gas	FO2	1981	OP
	IC7	6.0	5.9	6.0	IC	Nat Gas	FO2	1981	OP
Oxford City of.....		5.5	3.1	3.1					
City of Oxford (Sumner).....	1	1.1	.6	.6	IC	FO2	--	1986	OP
	2	1.1	.6	.6	IC	FO2	--	1986	OP
	3	1.1	.6	.6	IC	FO2	--	1986	OP
	4	1.1	.6	.6	IC	FO2	--	1990	OP
	5	1.1	.6	.6	IC	FO2	--	1990	OP
Pratt City of.....		31.3	31.3	32.4					
Pratt (Pratt).....	IC1	1.5	1.5	1.5	IC	FO2	Nat Gas	1958	OP
	1	3.0	3.0	3.1	ST	FO2	Nat Gas	1938	OP
	3	5.0	5.8	5.8	ST	FO2	Nat Gas	1953	OP
	5	14.0	13.0	14.0	ST	FO2	Nat Gas	1965	OP
Pratt 2 (Pratt).....	IC2	7.8	8.0	8.0	IC	Nat Gas	FO2	1994	OP
Russell City of.....		30.4	26.4	26.6					
Russell (Russell).....	1	3.4	2.7	2.8	IC	Nat Gas	FO2	1956	OP
	11	3.6	3.2	3.2	IC	Nat Gas	FO2	1994	OP
	12	3.6	3.2	3.2	IC	Nat Gas	FO2	1994	OP
	2	3.0	2.5	2.5	IC	Nat Gas	FO2	1958	OP
	3	.8	.5	.6	IC	Nat Gas	FO2	1957	OP
	4	5.0	4.5	4.5	IC	Nat Gas	FO2	1965	OP
	5	2.5	1.8	1.8	IC	Nat Gas	FO2	1951	OP
	7	3.5	3.0	3.0	IC	Nat Gas	FO2	1971	OP
	8	2.5	2.5	2.5	IC	FO2	--	1978	OP
	9	2.5	2.5	2.5	IC	FO2	--	1981	OP
Sabetha City of.....		18.0	15.2	15.2					
Sabetha (Nemaha).....	IC10	2.5	2.1	2.1	IC	FO2	Nat Gas	1990	OP

See footnotes at end of table.

Table 20. Existing Generating Units at U.S. Electric Utilities by State, Company, and Plant, as of January 1, 1996 (Continued)

State Company Plant (County)	Unit ID	Generator Nameplate Capacity (megawatts)	Net Summer Capability (megawatts)	Net Winter Capability (megawatts)	Unit Type ²	Energy Source ²		Year of Commercial Operation	Unit Status ²
						Primary	Alternate		
Kansas (Continued)									
	IC9	1.1	1.0	1.0	IC	FO2	Nat Gas	1985	OP
	1	.6	.4	.4	IC	FO2	--	1937	OP
	11	3.0	2.7	2.7	IC	FO2	Nat Gas	1992	OP
	2	1.5	1.3	1.3	IC	FO2	Nat Gas	1957	OP
	3	.8	.6	.6	IC	FO2	Nat Gas	1947	OP
	4	1.0	.8	.8	IC	FO2	Nat Gas	1950	OP
	5	1.4	1.3	1.3	IC	FO2	Nat Gas	1961	OP
	6	1.4	1.3	1.3	IC	FO2	Nat Gas	1967	OP
	7	2.2	1.8	1.8	IC	FO2	Nat Gas	1970	OP
	8	2.5	2.1	2.1	IC	FO2	Nat Gas	1978	OP
Sharon Springs City of		3.1	2.9	3.0					
Sharon Spring (Wallace)	1	1.0	.9	1.0	IC	FO2	Nat Gas	1970	OP
	2	1.0	1.0	1.0	IC	FO2	Nat Gas	1964	OP
	3	.4	.4	.4	IC	FO2	Nat Gas	1958	OP
	4	.7	.6	.6	IC	FO2	Nat Gas	1951	OP
St Francis City of		5.9	5.9	5.9					
St Francis (Cheyenne)	2	1.5	1.5	1.5	IC	FO1	Nat Gas	1964	OP
	3	.8	.8	.8	IC	FO1	Nat Gas	1960	OP
	4	2.7	2.7	2.7	IC	FO1	Nat Gas	1972	OP
	5	.9	.9	.9	IC	FO1	Nat Gas	1953	OP
St John City of		4.6	4.6	4.8					
St John (Stafford)	3	.9	.9	.9	IC	FO2	Nat Gas	1952	OP
	4	1.7	1.7	1.7	IC	FO2	Nat Gas	1965	OP
	5	2.0	2.0	2.2	IC	FO2	Nat Gas	1982	OP
Stafford City of		5.1	5.1	5.1					
Stafford (Stafford)	1	.9	.9	.9	IC	FO2	Nat Gas	1960	OP
	2	.9	.9	.9	IC	FO2	Nat Gas	1953	OP
	3	.8	.8	.8	IC	FO2	Nat Gas	1958	OP
	4	1.4	1.4	1.4	IC	FO2	Nat Gas	1973	OP
	5	1.1	1.1	1.1	IC	FO2	Nat Gas	1983	OP
Sterling City of		6.2	4.8	4.8					
Sterling (Rice)	1	1.5	1.4	1.4	IC	FO2	Nat Gas	1962	OP
	2	.6	.5	.5	IC	FO2	Nat Gas	1950	OP
	3	3.0	2.2	2.2	IC	FO2	Nat Gas	1972	OP
	4	1.1	.8	.8	IC	FO2	Nat Gas	1955	OP
Stockton City of		6.3	5.2	5.9					
Stockton (Rooks)	1	1.1	.9	1.1	IC	Nat Gas	FO2	1967	OP
	2	1.1	.9	1.1	IC	Nat Gas	FO2	1962	OP
	3	2.1	1.9	2.0	IC	Nat Gas	FO2	1971	OP
	4	.6	.5	.5	IC	Nat Gas	FO2	1951	OP
	5	1.4	1.1	1.3	IC	Nat Gas	FO2	1955	OP
Sunflower Electric Power									
Corp		593.0	522.0	536.0					
Garden City (Finney)	S2	98.0	85.0	88.0	ST	Nat Gas	--	1973	SB
	S3	16.0	12.0	13.0	GT	Nat Gas	--	1968	OP
	S4	65.0	50.0	55.0	GT	Nat Gas	--	1976	OP
	S5	65.0	50.0	55.0	GT	Nat Gas	--	1979	OP
Holcomb (Finney)	1	349.0	325.0	325.0	ST	SUB	Nat Gas	1983	OP
UtiliCorp United		383.4	374.5	374.5					
Arthur Mullergren (Barton)	3	81.6	92.0	92.0	ST	Nat Gas	FO5	1963	OP
Cimarron River (Seward)	1	50.0	58.0	58.0	ST	Nat Gas	--	1963	OP
	2	15.0	14.0	14.0	GT	Nat Gas	--	1967	OP
Clifton (Washington)	1	85.0	71.0	71.0	GT	Nat Gas	FO2	1974	OP
	2	3.0	2.5	2.5	IC	FO2	--	1974	OP
Judson Large (Ford)	4	148.8	137.0	137.0	ST	Nat Gas	FO5	1969	OP
Wamego City of		8.1	7.7	8.1					
Wamego (Pottawatomie)	1	1.3	1.3	1.3	IC	Nat Gas	FO2	1963	OP
	3	1.3	1.3	1.3	IC	Nat Gas	FO2	1972	OP
	4	1.1	1.1	1.1	IC	Nat Gas	FO2	1956	OP
	5	2.0	1.8	2.0	IC	Nat Gas	FO2	1967	OP
	6	2.4	2.2	2.4	IC	Nat Gas	FO2	1979	OP
Washington City of		9.1	7.4	7.9					
Washington (Washington)	IC4	2.6	2.3	2.4	IC	FO2	Nat Gas	1986	OP
	1	1.3	1.0	1.0	IC	FO2	Nat Gas	1963	OP
	2	1.0	.8	.8	IC	FO2	Nat Gas	1958	OP
	3	.9	.7	.8	IC	FO2	Nat Gas	1978	OP
	5	.7	.4	.5	IC	FO2	Nat Gas	1953	OP
	6	1.5	1.3	1.4	IC	FO2	Nat Gas	1967	OP

See footnotes at end of table.

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Table 2. Existing Generating Units at U.S. Electric Utilities by State, Company, and Plant, as of January 1, 1996 (Continued)

State Company Plant (County)	Unit ID	Generator Nameplate Capacity (megawatts)	Net Summer Capability (megawatts)	Net Winter Capability (megawatts)	Unit Type ²	Energy Source ²		Year of Commercial Operation	Unit Status ²
						Primary	Alternate		
Kansas (Continued)									
Wellington City of.....	7	1.1	0.9	1.0	IC	FO2	--	1976	OP
Wellington City (Summer).....	6	41.0	41.5	41.5	GT	Nat Gas	FO1	1989	OP
Wellington Municipal (Summer).....	4	20.0	19.5	19.5	ST	Nat Gas	FO2	1972	OP
Winfield City of.....	5	1.0	1.0	1.0	IC	FO2	Nat Gas	1956	OP
East 12th St (Cowley).....	4	47.5	51.6	51.6	ST	Nat Gas	FO2	1970	OP
West 14th St. (Cowley).....	GT1	26.5	28.7	28.7	GT	Nat Gas	FO2	1962	OP
Wolf Creek Nuclear Oper Corp.....	1	11.0	11.4	11.4	ST	Nat Gas	--	1957	OP
Wolf Creek (Coffey).....	**1	10.0	11.5	11.5	NP	Uranium	--	1985	OP
Wolf Creek Nuclear Oper Corp.....	**1	1,235.8	1,167.0	1,191.0	NP	Uranium	--	1985	OP
Wolf Creek (Coffey).....	**1	1235.8	1167.0	1191.0	NP	Uranium	--	1985	OP
Kentucky									
Kentucky Subtotal		17,578.9	15,425.1	15,611.9					
Big Rivers Electric Corp		2,093.3	1,774.0	1,774.0					
D B Wilson (Ohio).....	1	509.5	420.0	420.0	ST	BIT	--	1986	OP
HMP&L Station 2 (Henderson).....	**1	180.0	154.0	154.0	ST	BIT	--	1973	OP
	**2	184.5	161.0	161.0	ST	BIT	--	1974	OP
K C Coleman (Hancock).....	1	174.3	150.0	150.0	ST	BIT	--	1969	OP
	2	174.3	150.0	150.0	ST	BIT	--	1970	OP
	3	172.8	155.0	155.0	ST	BIT	--	1972	OP
R A Reid (Henderson).....	GT1	89.0	65.0	65.0	GT	FO2	--	1976	OP
	1	81.6	65.0	65.0	ST	BIT	--	1966	OP
R D Green (Webster).....	1	263.7	231.0	231.0	ST	BIT	--	1979	OP
	2	263.7	223.0	223.0	ST	BIT	--	1981	OP
Cincinnati Gas & Electric Co		669.3	600.0	600.0					
East Bend (Boone).....	**2	669.3	600.0	600.0	ST	BIT	--	1981	OP
East Kentucky Power Coop Inc		1,310.4	1,313.0	1,313.0					
Cooper (Pulaski).....	1	100.0	116.0	116.0	ST	BIT	--	1965	OP
	2	220.9	225.0	225.0	ST	BIT	--	1969	OP
Dale (Clark).....	1	22.0	20.0	20.0	ST	BIT	--	1954	OP
	2	22.0	20.0	20.0	ST	BIT	--	1954	OP
	3	66.0	66.0	66.0	ST	BIT	--	1957	OP
	4	66.0	66.0	66.0	ST	BIT	--	1960	OP
H L Spurlock (Mason).....	1	305.2	300.0	300.0	ST	BIT	--	1977	OP
	2	508.3	500.0	500.0	ST	BIT	--	1981	OP
Henderson City Utility Comm		46.3	38.0	38.0					
Henderson I (Henderson)	1	1.2	1.0	1.0	IC	FO2	Nat Gas	1948	OP
	2	1.2	1.0	1.0	IC	FO2	Nat Gas	1948	OP
	5	11.5	10.0	10.0	ST	BIT	--	1956	OP
	6	32.3	26.0	26.0	ST	BIT	--	1968	OP
Kentucky Power Co		1,096.8	1,060.0	1,060.0					
Big Sandy (Lawrence).....	1	280.5	260.0	260.0	ST	BIT	--	1963	OP
	2	816.3	800.0	800.0	ST	BIT	--	1969	OP
Kentucky Utilities Co		3,853.6	3,397.5	3,513.5					
Dix Dam (Garrard).....	1	9.4	8.0	8.0	HY	Water	--	1925	OP
	2	9.4	8.0	8.0	HY	Water	--	1925	OP
	3	9.4	8.0	8.0	HY	Water	--	1925	OP
E W Brown (Mercer).....	1	113.6	98.0	101.0	ST	BIT	--	1957	OP
	10	119.0	110.0	110.0	GT	Nat Gas	FO2	1995	OP
	2	179.5	166.0	168.0	ST	BIT	--	1963	OP
	3	446.4	381.0	392.0	ST	BIT	--	1971	OP
	8	119.0	109.0	135.0	GT	Nat Gas	FO2	1995	OP
	9	119.0	112.0	132.0	GT	Nat Gas	FO2	1994	OP
Ghent (Carroll).....	1	556.9	477.0	487.0	ST	BIT	--	1974	OP
	2	556.4	479.0	483.0	ST	BIT	--	1977	OP
	3	556.6	497.0	505.0	ST	BIT	--	1981	OP
	4	556.2	495.0	501.0	ST	BIT	--	1984	OP
Green River (Muhlenberg)	1	37.5	26.0	29.0	ST	BIT	--	1950	OP
	2	37.5	27.0	30.0	ST	BIT	--	1950	OP

See footnotes at end of table.

Table 23. Planned Generating Unit Additions at U.S. Electric Utilities by State, Company, and Plant, 1996 Through 2005 as of January 1, 1996 (Continued)

State Company Plant (County)	Unit ID	Scheduled Completion Date Current/Original	Generator Nameplate Capacity (megawatts)	Net Summer Capability (megawatts)	Unit Type ¹	Energy Source ¹	Unit Status ¹
NA 5 (UNKNOWN).....	1	Jan 00/Jan 01	10.0	10.0	WT	Wind	P
	2	Jan 05/Jan 01	1.0	1.0	PV	Sun	P
Oneida Casino (Brown).....	1	Jul 96/Jul 96	2.0	2.0	IC	FO1	P
	2	Jul 96/Jul 96	2.0	2.0	IC	FO1	P
U.S. Total.....			47,602.5	40,150.2			

¹ See Appendix B for codes.

* Less than 0.05 megawatts.

** A jointly owned unit. See Appendix C for the list of owners.

Notes: •Total may not equal the sum of components because of independent rounding. •The Form EIA-860 was revised during 1995 to collect data as of January 1 of the reporting year, where "reporting year" is the calendar year in which the report is required to be filed with the Energy Information Administration. These data reflect the status of electric power plants/generators as of January 1; however, dynamic data are based on occurrences in the previous calendar year (e.g., capabilities and energy sources based on test and consumption in the previous year).

Source: Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

Table 24. Existing Capacity and Planned Capacity Additions at U.S. Nonutility Power Producers, as of December 31, 1995 (megawatts)

Energy Source	Existing 1995	Planned Additions 1996-1998 ¹
Total.....	70,254	4,004
Oil ²	10,877	348
Petroleum ³	2,116	21
Gas ⁴	27,906	1,996
Other Gas.....	1,217	—
Petroleum/Natural Gas (Combined).....	10,479	1,144
Hydroelectric.....	3,399	54
Geothermal.....	1,295	—
Solar.....	354	—
Wind.....	1,723	70
Wood ⁵	6,885	107
Waste ⁶	3,430	264
Nuclear ⁷	—	—
Other ⁸	574	—

¹ These data represent planned capacity additions for which a proposed date of operation in 1996, 1997, or 1998 was reported.

² Includes anthracite culm and coal waste.

³ Includes petroleum coke, diesel, kerosene, and petroleum sludge and tar.

⁴ Includes natural gas, butane, ethane, propane, waste heat and waste gases.

⁵ Includes wood waste, peat, wood liquors, railroad ties, pitch and wood sludge.

⁶ Includes municipal solid waste, agricultural waste, straw, tires, landfill gases and other waste.

⁷ Nuclear reactor and generator at Argonne National Laboratory used primarily for research and development in testing reactor fuels, as well as for training. The generation from the unit is used for internal consumption.

⁸ Includes hydrogen, sulfur, batteries, chemicals, and spent sulfite liquor.

Notes: •Data are final. •Planned additions are for 1996 through 1998. •Existing capacity and planned capacity additions include all facilities with a combined generator nameplate capacity of 1 or more megawatts. •Capacity is generator nameplate capacity. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, (EIA) Form EIA-867, "Annual Nonutility Power Producer Report."

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Figure 1. Share of Capacity at U.S. Electric Utilities by Energy Source, as of January 1, 1996

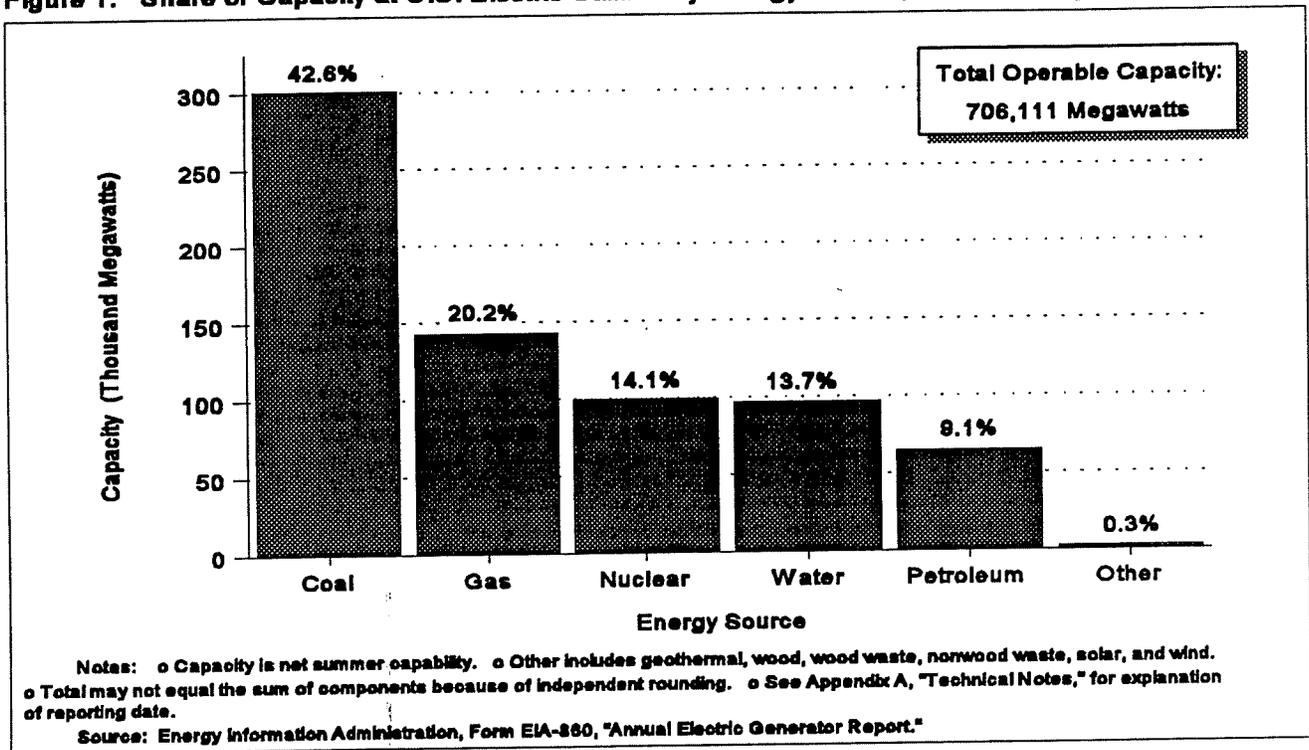
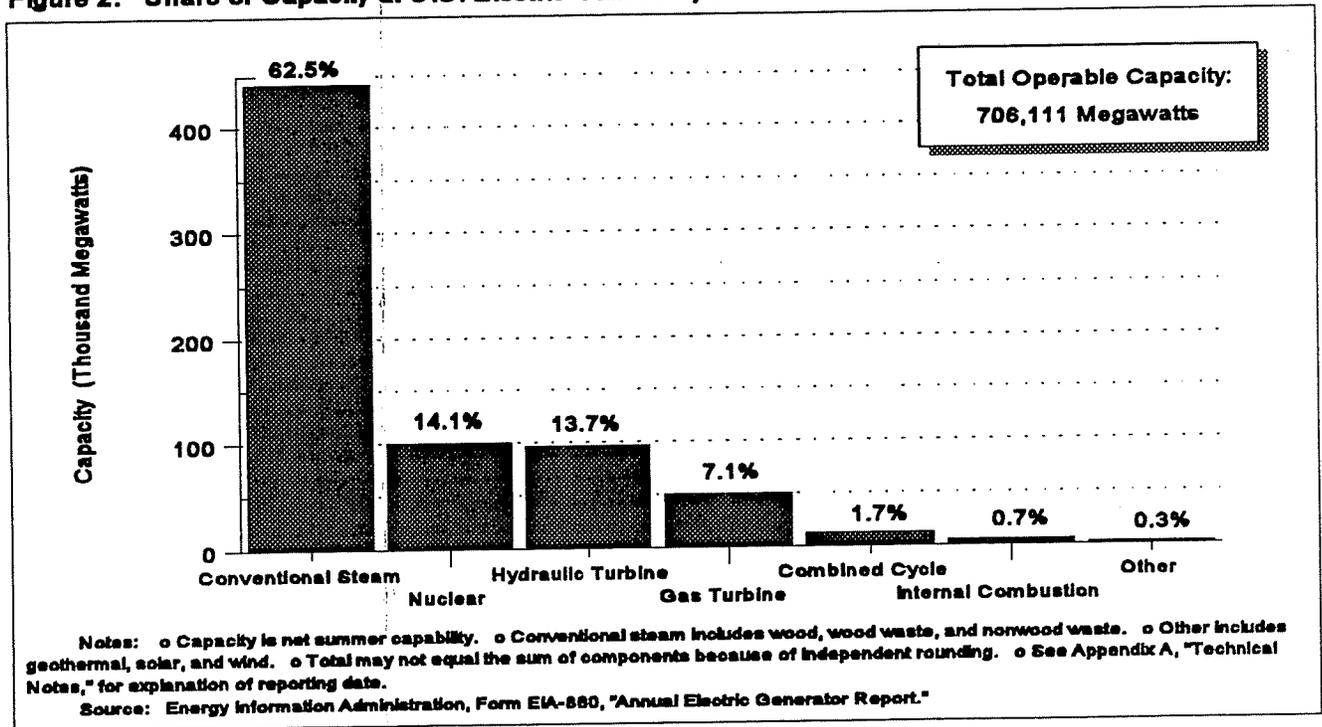


Figure 2. Share of Capacity at U.S. Electric Utilities by Prime Mover, as of January 1, 1996



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Figure 3. Coal-Fired Capacity at U.S. Electric Utilities by State, as of January 1, 1996

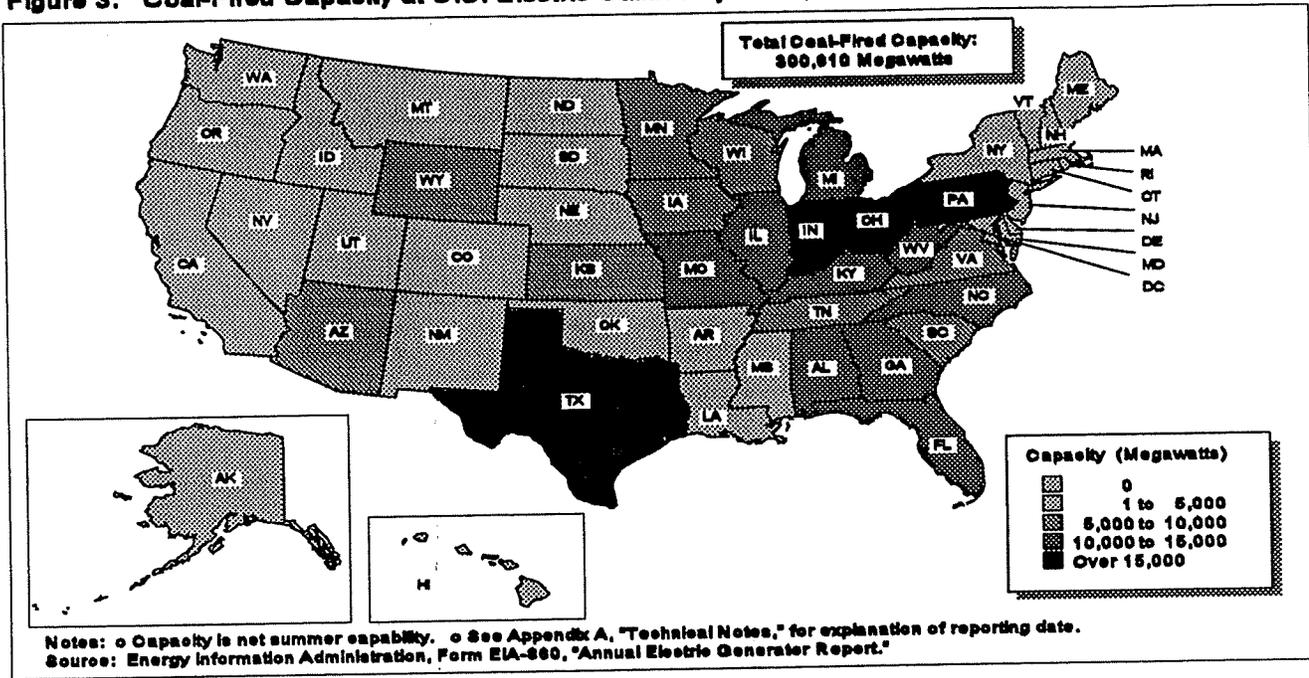
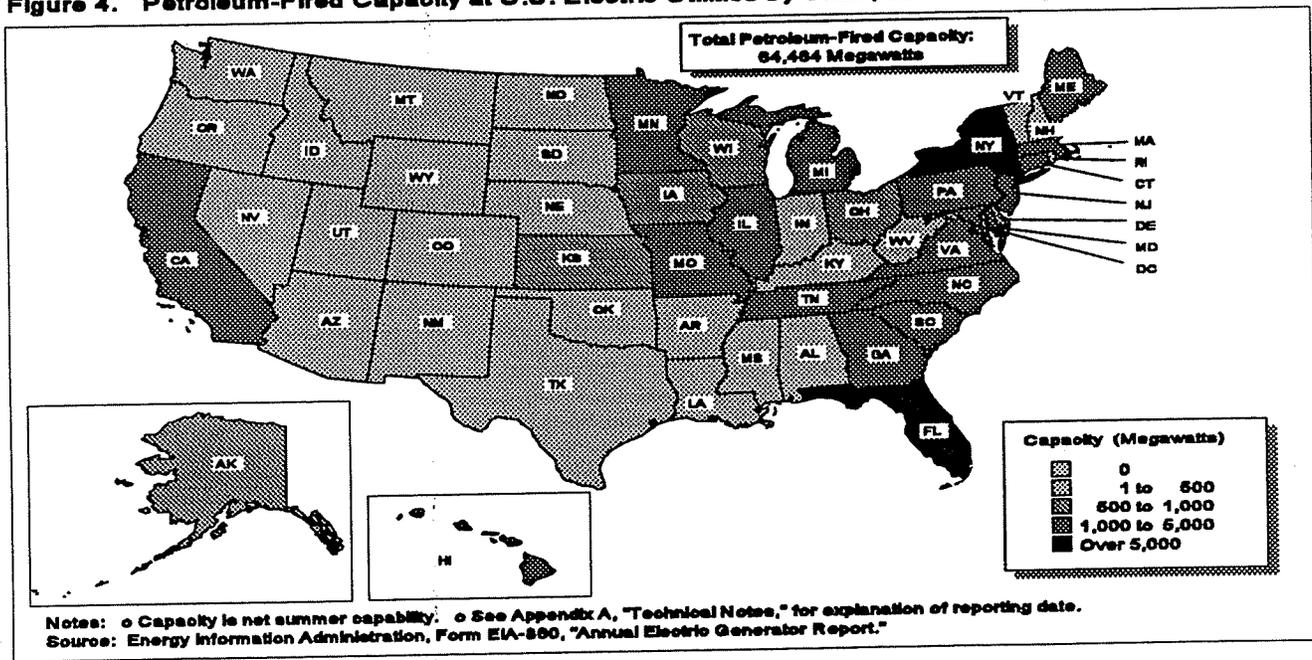


Figure 4. Petroleum-Fired Capacity at U.S. Electric Utilities by State, as of January 1, 1996



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Figure 5. Gas-Fired Capacity at U.S. Electric Utilities by State, as of January 1, 1996

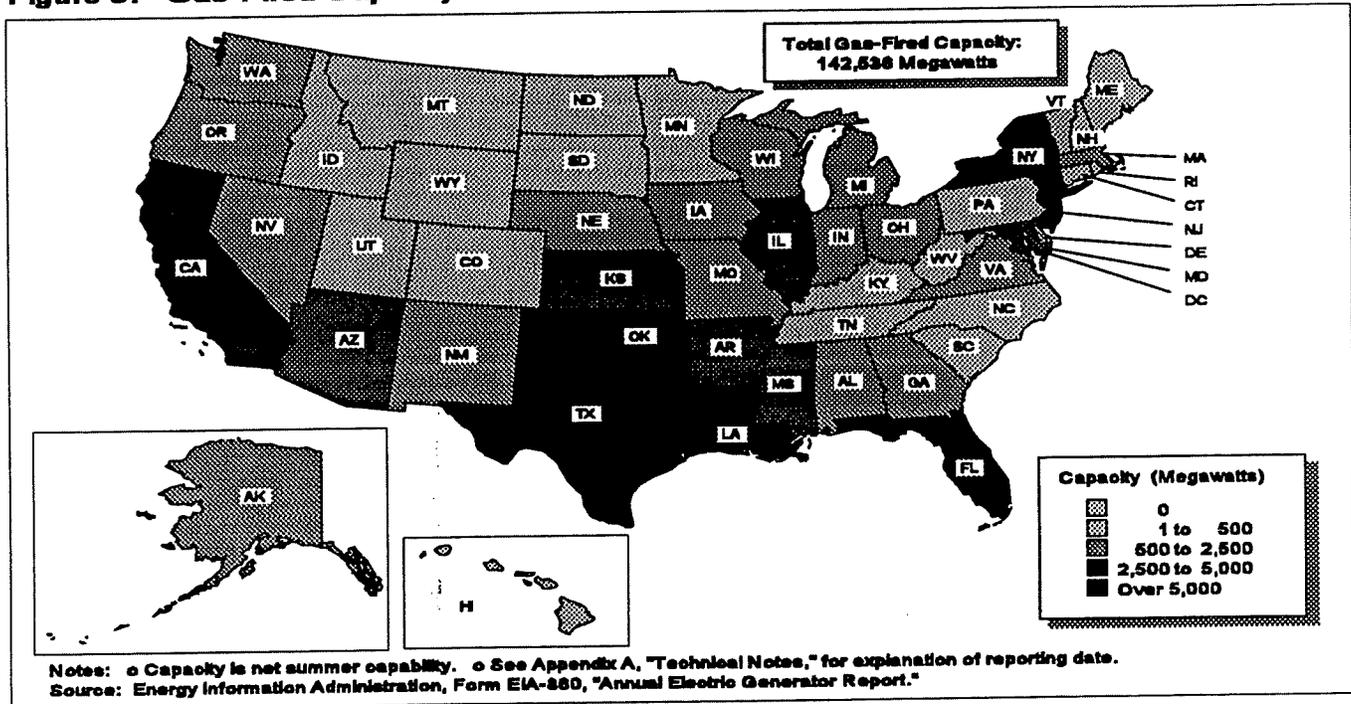
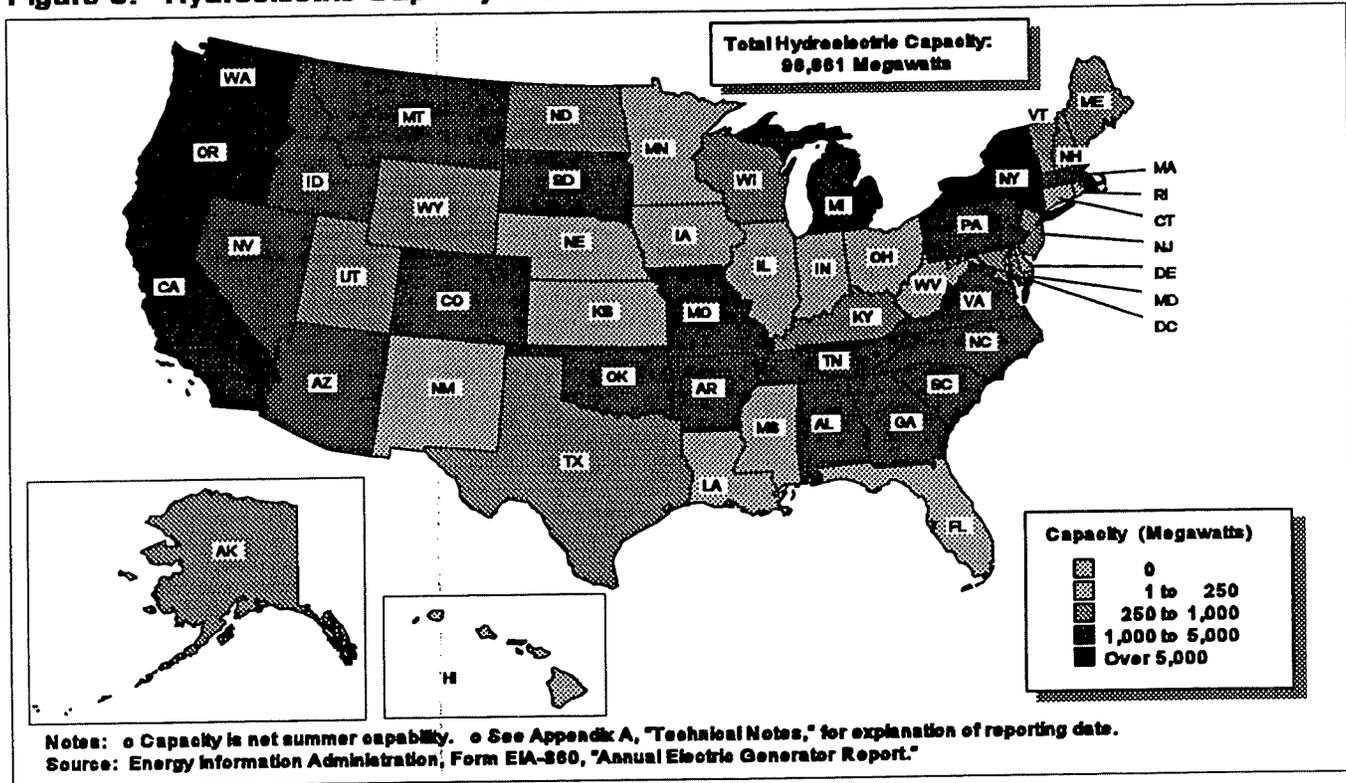


Figure 6. Hydroelectric Capacity at U.S. Electric Utilities by State, as of January 1, 1996



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Figure 7. Nuclear Capacity at U.S. Electric Utilities by State, as of January 1, 1996

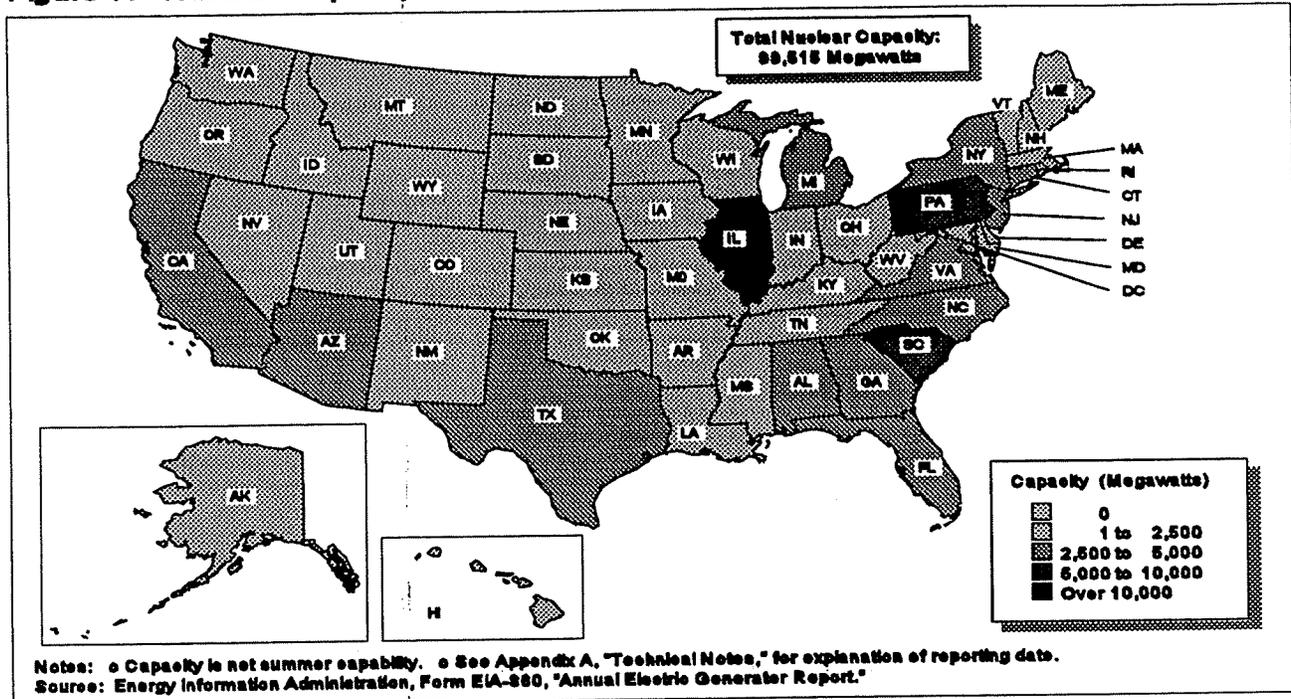
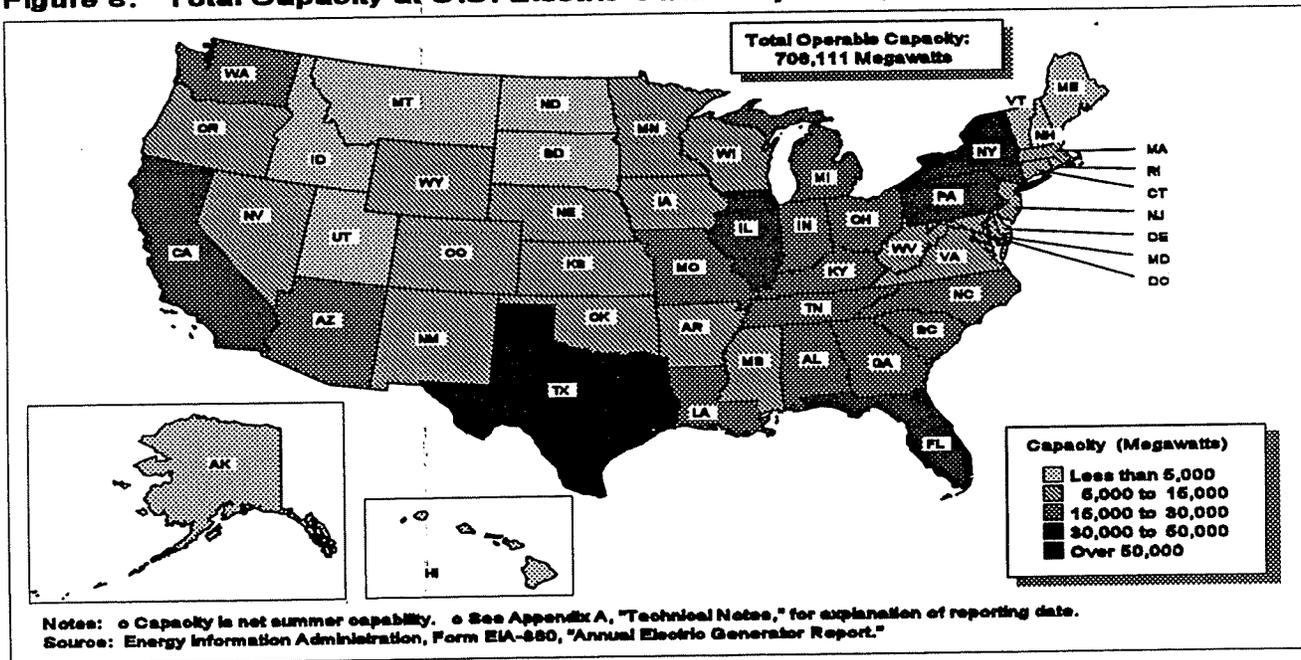
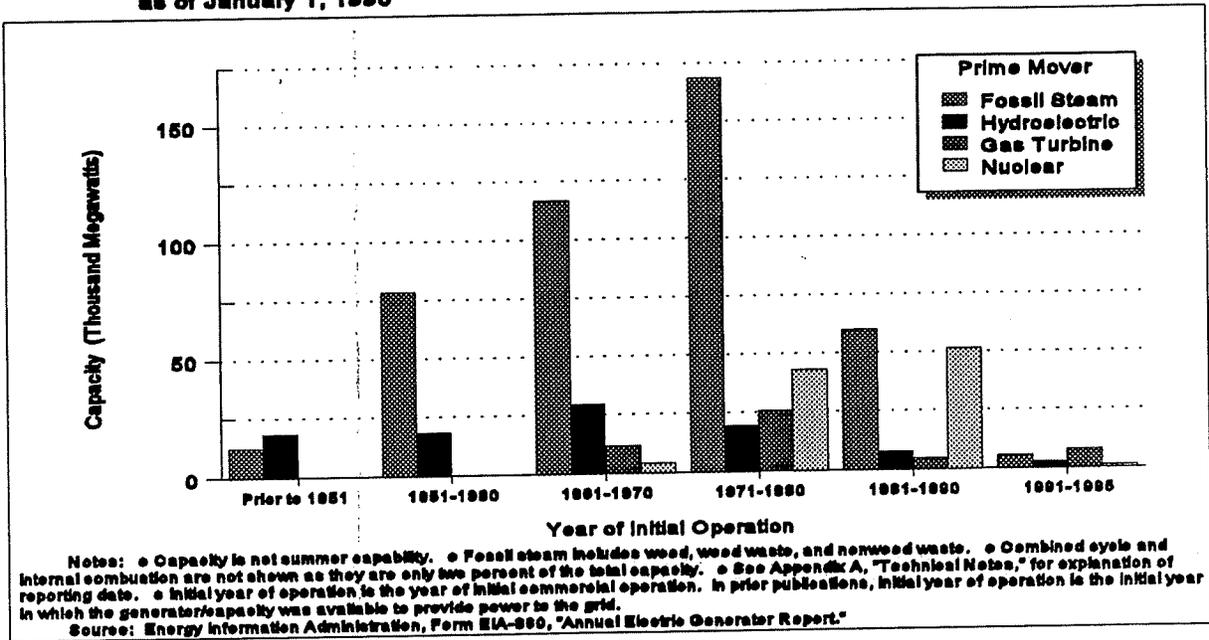


Figure 8. Total Capacity at U.S. Electric Utilities by State, as of January 1, 1996



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Figure 9. Operable Capacity at U.S. Electric Utilities by Prime Mover and Initial Year of Operation, as of January 1, 1995



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Figure 10. Capacity Additions at U.S. Electric Utilities by Energy Source, 1986 Through 1990

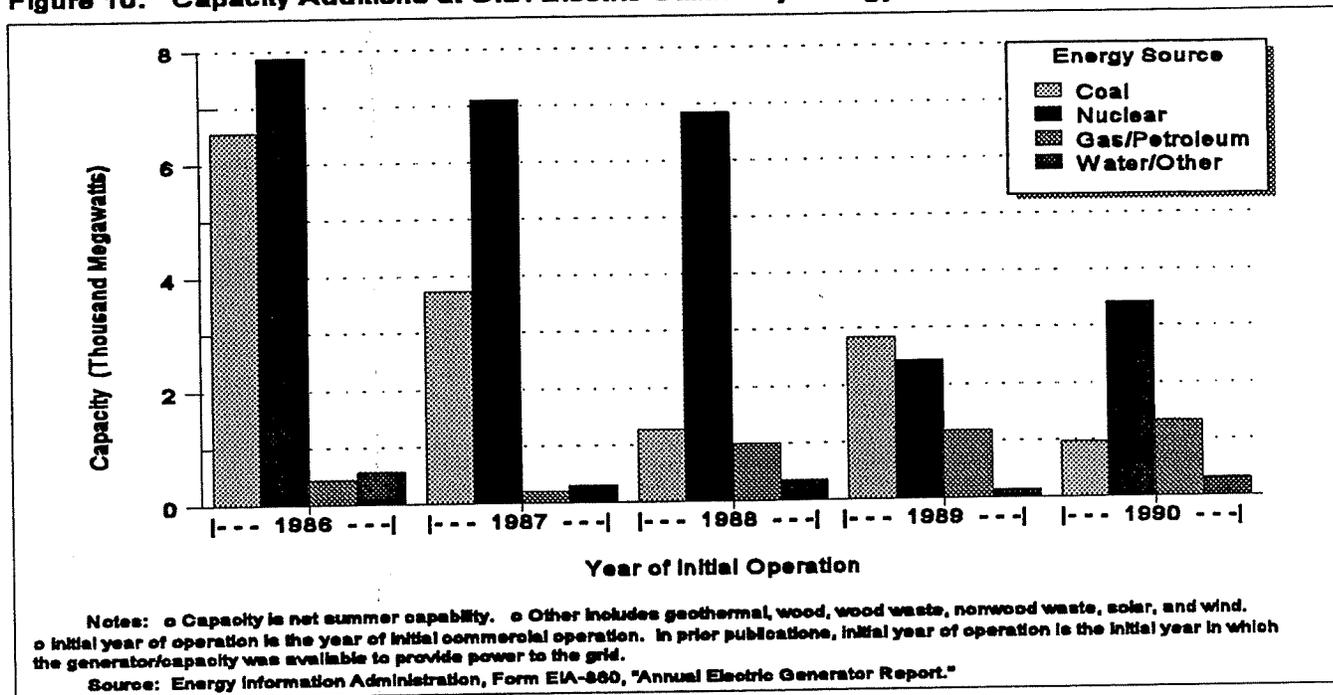
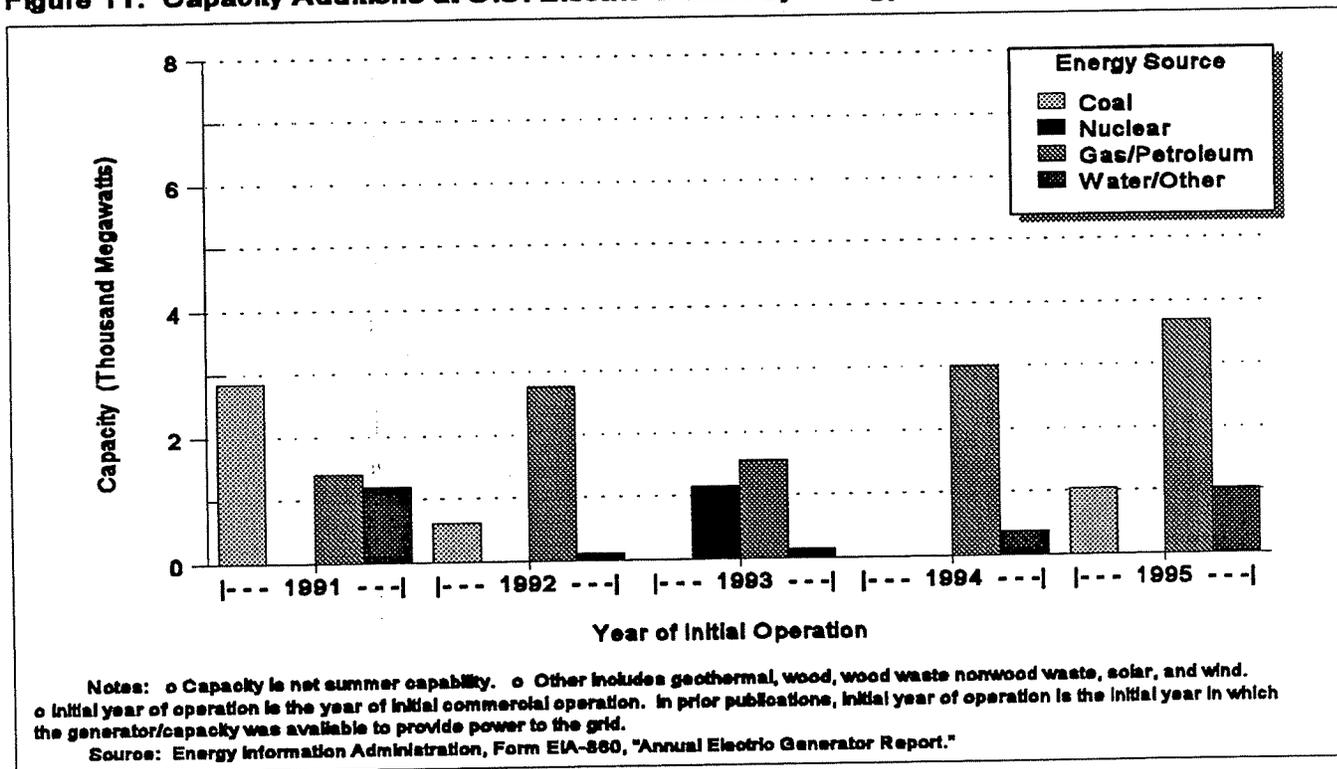
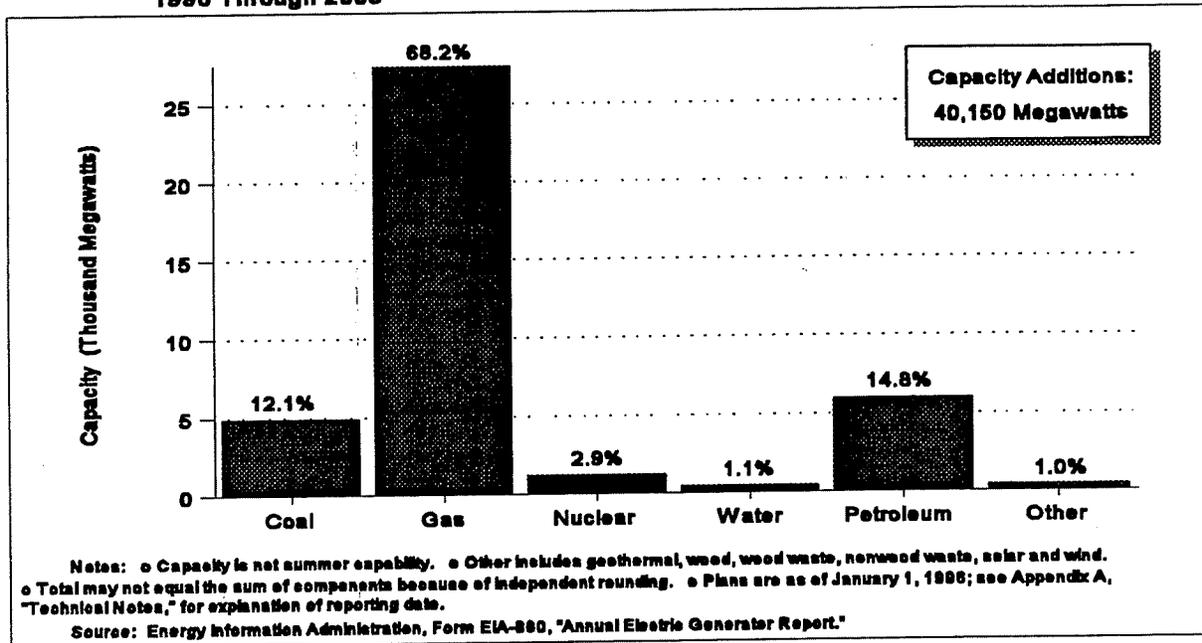


Figure 11. Capacity Additions at U.S. Electric Utilities by Energy Source, 1991 Through 1995



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Figure 12. Share of Planned Capacity Additions at U.S. Electric Utilities by Energy Source, 1995 Through 2005



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Figure 13. Planned Capacity Additions at U.S. Electric Utilities by Energy Source, 1996 Through 2000

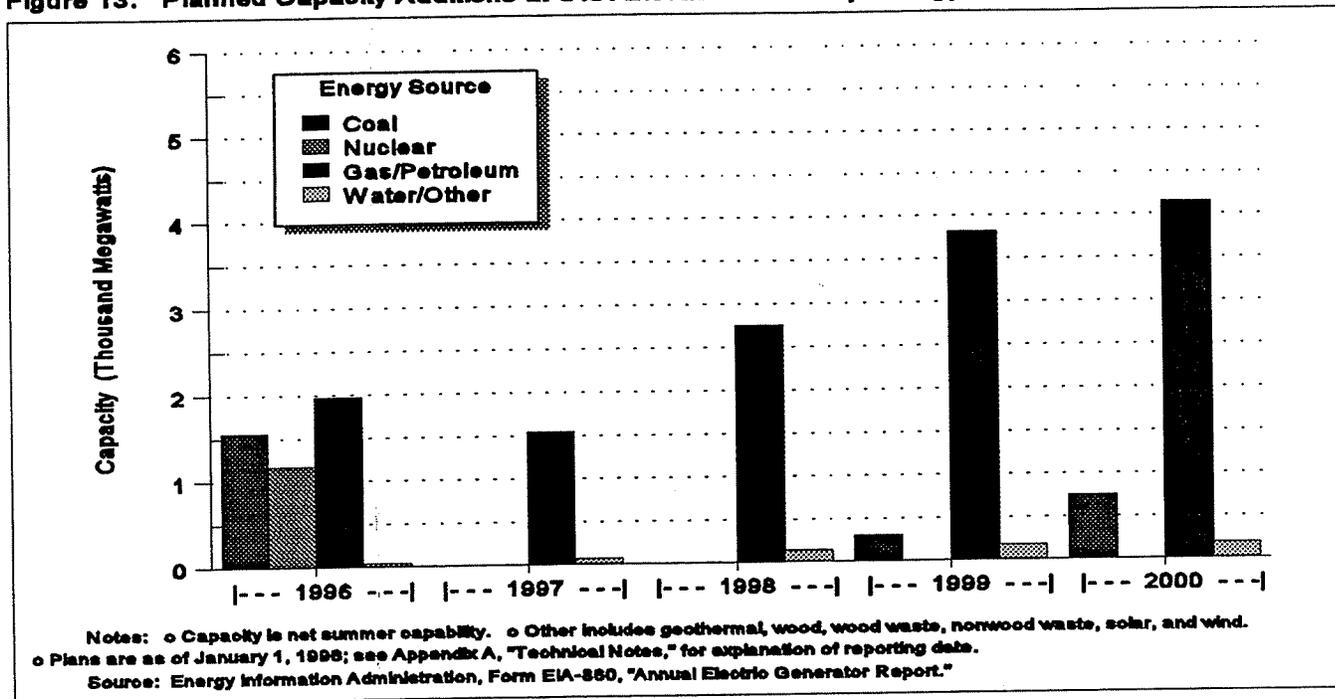
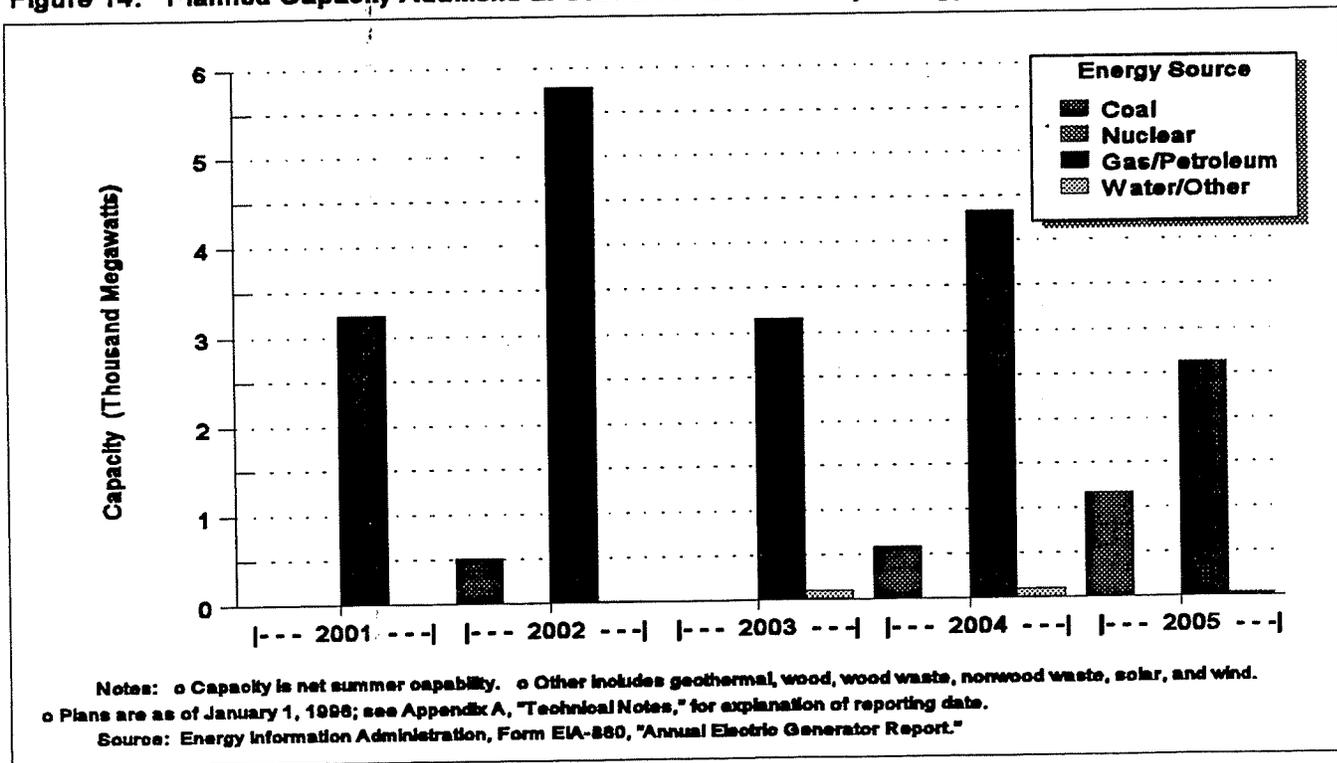


Figure 14. Planned Capacity Additions at U.S. Electric Utilities by Energy Source, 2001 Through 2005



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Table 2. Existing Generating Units Powered by Renewable Energy Sources at U.S. Electric Utilities by State, Company, and Plant, as of January 1, 1996

State Company Plant (County)	Unit ID	Capacity			Unit Type- 1	Energy Source ¹		Year of Commercial Operation	Unit Status ¹
		Generator Nameplate Capacity (megawatts)	Net Summer Capability (megawatts)	Net Winter Capability (megawatts)		Primary	Alternate		
Alaska.....		--	--	--					
Matanuska Electric Assn Inc.....		*	*	*	WT	Wind	--	1982	OP
Unalakleet-Wind (Matanuska-Susitna).....	1	*	*	*	WT	Wind	--	1982	OP
	2	*	*	*	WT	Wind	--	1982	OP
	3	*	*	*	WT	Wind	--	1982	OP
California.....		1,847.3	1,722.6	1,722.6					
California Dept.-Wtr Resources.....		55.0	52.5	52.5				1985	OS
Boulterock (Lake).....	1	55.0	52.5	52.5	GE	GST	--	1985	OS
Northern California Power Agny.....		220.0	238.0	238.0					
Geothermal 1 (Sonoma).....	1	55.0	59.0	59.0	GE	GST	--	1983	OP
	2	55.0	59.0	59.0	GE	GST	--	1983	OP
	3	55.0	60.0	60.0	GE	GST	--	1985	OP
Geothermal 2 (Sonoma).....	4	55.0	60.0	60.0	GE	GST	--	1986	OP
Pacific Gas & Electric Co.....		1,355.3	1,225.5	1,225.5					
Kernman PV (Fresno).....	1	.5	.5	.5	PV	Sun	--	1993	OP
PVUSA 1 (Yolo).....	1	1.0	1.0	1.0	PV	Sun	--	1989	OP
The Geysers (Sonoma).....	10	59.4	53.0	53.0	GE	GST	--	1973	OP
	11	118.8	106.0	106.0	GE	GST	--	1975	OP
	12	118.8	106.0	106.0	GE	GST	--	1979	OP
	13	139.8	133.0	133.0	GE	GST	--	1980	OP
	14	124.0	109.0	109.0	GE	GST	--	1980	OP
	16	124.0	113.0	113.0	GE	GST	--	1985	OP
	17	124.0	113.0	113.0	GE	GST	--	1982	OP
	18	124.0	113.0	113.0	GE	GST	--	1983	OP
	20	124.0	113.0	113.0	GE	GST	--	1985	OP
	5	59.4	53.0	53.0	GE	GST	--	1971	OP
	6	59.4	53.0	53.0	GE	GST	--	1971	OP
	7	59.4	53.0	53.0	GE	GST	--	1972	OP
	8	59.4	53.0	53.0	GE	GST	--	1972	OP
	9	59.4	53.0	53.0	GE	GST	--	1973	OP
Sacramento Municipal Util Dist.....		217.0	206.6	206.6					
Coldwater Creek (Sonoma).....	*GE1	65.0	62.8	62.8	GE	GST	--	1988	OP
	*GE2	65.0	62.8	62.8	GE	GST	--	1988	OP
Hedge PV (Sacramento).....	1	.2	.2	.2	PV	Sun	--	1994	OP
Smudgeo (Sonoma).....	1	78.0	72.0	72.0	GE	GST	--	1983	OP
Solano (Solano).....	1	6.8	6.8	6.8	WT	Wind	--	1994	OP
Solar (Sacramento).....	1	1.0	1.0	1.0	PV	Sun	--	1984	OP
	2	1.0	1.0	1.0	PV	Sun	--	1986	OP
Connecticut.....		90.0	64.1	63.7					
Connecticut Light & Power Co.....		90.0	64.1	63.7					
South Meadow (Hartford).....	5	45.0	32.1	31.9	ST	Refuse	BIT	1942	OP
	6	45.0	32.1	31.9	ST	Refuse	BIT	1950	OP
Iowa.....		.1	.1	.1					
Waverly City of.....		.1	.1	.1					
Skeets 1 (Bremer).....	11	.1	.1	.1	WT	Wind	--	1993	OP
Maine.....		32.0	32.0	32.0					
Central Maine Power Co.....		32.0	32.0	32.0					
Aroostook Valley (Aroostook).....	1	32.0	32.0	32.0	ST	WD	--	1994	OP
Massachusetts.....		.3	.5	.8					
Princeton Town of.....		.3	.5	.8					
Richard F. Wheeler (Worcester).....	1	*	.1	.1	WT	Wind	--	1984	OP
	2	*	.1	.1	WT	Wind	--	1984	OP
	3	*	.1	.1	WT	Wind	--	1984	OP
	4	*	.1	.1	WT	Wind	--	1984	OP
	5	*	.1	.1	WT	Wind	--	1984	OP
	6	*	.1	.1	WT	Wind	--	1984	OP
	7	*	.1	.1	WT	Wind	--	1984	OP
	8	*	.1	.1	WT	Wind	--	1984	OP
Minnesota.....		93.7	81.9	82.9					
Northern States Power Co.....		48.2	43.0	44.0					
Holland Wind (Pipestone).....	1	.1	2-	2-	WT	Wind	--	1986	OP
	2	.1	2-	2-	WT	Wind	--	1986	OP

See footnotes at end of table.

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Table 21. Existing Generating Units Powered by Renewable Energy Sources at U.S. Electric Utilities by State, Company, and Plant, as of January 1, 1996 (Continued)

State Company Plant (County)	Unit ID	Capacity			Unit Type	Energy Source ¹		Year of Commercial Operation	Unit Status ¹
		Generator Nameplate Capacity (megawatts)	Net Summer Capability (megawatts)	Net Winter Capability (megawatts)		Primary	Alternate		
Red Wing (Goodhue).....	3	0.1	2	2	WT	Wind	--	1986	OP
	1	11.5	11.0	11.0	ST	Refuse	Nat Gas	1949	OP
	2	11.5	10.0	11.0	ST	Refuse	Nat Gas	1949	OP
Wilmarth (Blue Earth).....	1	12.5	11.0	11.0	ST	Refuse	Nat Gas	1948	OP
	2	12.5	11.0	11.0	ST	Refuse	Nat Gas	1951	OP
United Power Assn.....		45.5	38.9	38.9					
Elk River (Sherburne).....	1	11.5	9.8	9.8	ST	Refuse	--	1951	OP
	2	11.5	9.8	9.8	ST	Refuse	--	1951	OP
	3	22.5	19.3	19.3	ST	Refuse	--	1959	OP
Montana.....		12.5	12.5	12.5					
Champion International Corp.....		12.5	12.5	12.5					
Libby (Lincoln).....	1	7.5	7.5	7.5	ST	WD	--	1966	OP
	2	5.0	5.0	5.0	ST	WD	--	1972	OP
Ohio.....		90.0	90.0	90.0					
Columbus City of.....		90.0	90.0	90.0					
Refuse & Coal (Franklin).....	1	30.0	30.0	30.0	ST	Refuse	BIT	1983	OP
	2	30.0	30.0	30.0	ST	Refuse	BIT	1983	OP
	3	30.0	30.0	30.0	ST	Refuse	BIT	1983	OP
Oregon.....		51.5	34.5	34.5					
Eugene City of.....		51.5	34.5	34.5					
Weyerhaeuser #4 (Lane).....	4	40.0	23.0	23.0	ST	Refuse	--	1976	OP
Willamette (Lane).....	3	11.5	11.5	11.5	ST	WD	--	1950	OP
Texas.....		.3	.3	.3					
Austin City of.....		.3	.3	.3					
Decker Creek (Travis).....	PV3	.3	.3	.3	PV	Sun	--	1987	OP
Utah.....		39.6	35.2	35.2					
PacifiCorp.....		26.1	23.0	23.0					
Blundell (Millard).....	1	26.1	23.0	23.0	GE	GST	--	1984	OP
Provo City Corp.....		13.5	12.2	12.2					
Lud L. Bonnett (Beaver).....	CT1	8.5	7.0	7.0	GE	GST	--	1989	OP
	OEC1	.8	.8	.8	GE	GST	--	1985	OP
	OEC2	.8	.8	.8	GE	GST	--	1985	OP
	OEC3	.8	.8	.8	GE	GST	--	1985	OP
	OEC4	.8	.8	.8	GE	GST	--	1985	OP
	TT1	2.0	2.0	2.0	GE	GST	--	1988	OP
Vermont.....		50.2	50.2	50.2					
Burlington City of.....		50.0	50.0	50.0					
J C McNeil (Chittenden).....	**1	50.0	50.0	50.0	ST	WD	Nat Gas	1984	OP
Green Mountain Power Corp.....		.2	.2	.2					
Carthusians (Bennington).....	1	.1	.1	.1	WT	Wind	--	1989	OP
	2	.1	.1	.1	WT	Wind	--	1989	OP
Virginia.....		.1	.1	.1					
Virginia Electric & Power Co.....		.1	.1	.1					
North Anna (Louisa).....	SP1	*	*	*	PV	Sun	--	1985	OP
	SP2	*	*	*	PV	Sun	--	1985	OP
	SP3	*	*	*	PV	Sun	--	1985	OP
Washington.....		100.7	97.0	97.0					
Tacoma City of.....		50.0	50.0	50.0					
Steam Plant 2 (Pierce).....	1	25.0	25.0	25.0	AB	WD	SUB	1931	OP
	2	25.0	25.0	25.0	AB	WD	SUB	1955	OP
Washington Water Power Co.....		50.7	47.0	47.0					
Kettle Falls (Stevens).....	1	50.7	47.0	47.0	ST	WD	Nat Gas	1983	OP
Wisconsin.....		96.8	105.5	105.5					
Muscoda City of.....		2.0	1.5	1.5					
Muscoda (Richland).....	3	2.0	1.5	1.5	ST	Refuse	WD	1989	OS
Northern States Power Co.....		94.8	104.0	104.0					
Bay Front (Ashland).....	4	20.0	22.0	22.0	ST	WD	SUB	1949	OP
	5	20.0	23.0	23.0	ST	WD	SUB	1952	OP
	6	27.0	30.0	30.0	ST	WD	SUB	1957	OP
French Island (La Crosse).....	1	15.3	15.0	15.0	ST	WD	Refuse	1940	OP

See footnotes at end of table.

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Table 2. Existing Generating Units Powered by Renewable Energy Sources at U.S. Electric Utilities by State, Company, and Plant, as of January 1, 1996 (Continued)

State Company Plant (County)	Unit ID	Capacity			Unit Type- 1	Energy Source ¹		Year of Commercial Operation	Unit Status ¹
		Generator Nameplate Capacity (megawatts)	Net Summer Capability (megawatts)	Net Winter Capability (megawatts)		Primary	Alternate		
	2	12.5	14.0	14.0	ST	WD	Nat Gas	1948	OP
U.S. Total.....		2,505.1	2,326.4	2,327.3					

¹ See Appendix B for codes.

* Less than 0.05 megawatts.

** A jointly owned unit. See Appendix C for the list of owners.

E Estimated.

Notes: •This table excludes hydroelectric generating units. •The Form EIA-860 was revised during 1995 to collect data as of January 1 of the reporting year, where "reporting year" is the calendar year in which the report is required to be filed with the Energy Information Administration. These data reflect the status of electric power plants/generators as of January 1; however, dynamic data are based on occurrences in the previous calendar year (e.g., capabilities and energy sources based on test and consumption in the previous year).

Source: Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

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Attach. 5

**OUTLINE OF RATE SETTING PROCESS
FOR
ELECTRIC AND NATURAL GAS PUBLIC UTILITIES**

Joe Williams

I. Audit

Following the filing of a major gas or electric rate case, a complete audit of the filing company's books and records is conducted. The audit team will normally consist of three to five members of the Commission's audit staff, and occasionally the assistance of an outside consultant. The audit will normally require from three to five months, depending on the availability of information and other work load.

Also during this time Staff economists are assembling information necessary to make a recommendation concerning a reasonable rate of return on invested capital and other members of the Commission Staff are assembling information concerning any other issues felt to require attention.

All of this information will be assembled into testimony which will be submitted to the Commission presenting the opinion of the Commission's Staff regarding a reasonable annual revenue requirement for the utility. Other parties to the case, in addition to the utility and the Commission's Staff, may also make recommendations concerning total revenue requirements.

II. Allocation

In most rate cases, certainly during cases involving the largest utilities, an allocation study, referred to as a "cost-of-service study" will be prepared. The purpose of a cost-of-service study is to determine what rates of return are being earned, under currently effective rates, from the various types of customers, nominally Residential, Commercial and Industrial, although other sub-groupings may be considered. The results of this study can then be used as an indicator of reasonable rate adjustments for the various classes of customers.

The cost-of-service study allocates a portion of the utility's plant investments and expenses to the various customer classes based on various measures of cost responsibility, including peak season load of the various classes, total annual energy use, numbers of customers in the classes, etc.

There is no one generally accepted method for such allocations. Competing studies will normally be submitted by the utility, the Commission's Staff and any other intervenors desiring to do so. The Commission must then, based upon testimony by the various parties, choose one of the studies upon which to rely. This is usually a hotly contested area.

III. Rate Design

*Senate Utilities
3-12-97
Att. 5*

Multiple parties to the case will usually submit testimony to the Commission concerning how the total revenue requirement should be spread among classes of customers and the form of rates to be charged. Many criteria, in addition to the indications of allocation studies, may be used to form the basis of these testimonies. Disputes concerning reasonable rates of return to be earned from various services, gradualism in rate adjustments, desired changes in class groupings, economic development issues and other criteria will be used by various parties to argue for what they feel is their fare share of the total revenue requirement. Multiple parties usually will also submit testimony concerning the form of rates to be charged, such the portion of revenue to be recovered from "customer charges" as opposed to use-sensitive charges.

IV. **The Decision**

The Commission must weigh all of the evidence and testimony presented by all of the participating parties and arrive at a decision concerning revenue requirements, allocation and rate design. This process will usually consist of one or more public hearings held in the utility's service territory to elicit public comment and a technical hearing held at the Commission's offices to hear cross examination of witnesses for the various parties. Following this process a decision must be issued no more than 240 days from the original filing by the utility.