SECTION VI
Miscellaneous

Investor-Owned Electric Utility Holding Companies and Systems

Investor-Owned Electric Utility Mergers and Name Changes

Glossary of Terms
INVESTOR-OWNED ELECTRIC UTILITY HOLDING COMPANIES AND SYSTEMS

AES Corporation (AES)  
1001 North 15th Street  
Arlington, VA 22209  
(703) 222-1315  
Central Illinois Light Company

Alaska Energy and Resources Company (AER)  
5601 Tongass Court  
Juneau, AK 99801-7201  
(907) 780-2222  
Alaska Electric Light and Power Company

Allegheny Energy, Inc. (AYE) *  
10435 Downsville Pike  
Hagerstown, MD 21740-1766  
(301) 790-3400  
Monongahela Power Company  
Potomac Edison Company, The  
West Penn Power Company  
Note: All subsidiaries operate under the name Allegheny Electric Power. Their legal names are listed above.

ALLETE (ALE)  
30 West Superior Street  
Duluth, MN 55802-2093  
(218) 722-2641  
Minnesota Power  
Superior Water, Light and Power Company

Alliant Energy Corporation (LNT) *  
222 West Washington Avenue  
Madison, WI 53701-0192  
(608) 252-3311  
Alliant Energy/EES Utilities Inc.  
Alliant Energy/Interstate Power Company  
Alliant Energy/Wisconsin Power and Light Company  
South Beloit Water, Gas and Electric Company

Ameren Corp. (AEE) *  
One Ameren Plaza  
1901 Chouteau Avenue  
St. Louis, MO 63103-3003  
(314) 621-3222  
AmerenCIPS  
AmerenUE

American Electric Power Company, Inc. (AEP) *  
1 Riverside Plaza  
Columbus, OH 43215-2373  
(614) 223-1000  
AEP Generating Company  
Appalachian Power Company  
Central Power & Light Company  
Columbus Southern Power Company  
Indiana Michigan Power Company  
Kentucky Power Company  
Kingsport Power Company  
Ohio Power Company  
Public Service Company of Oklahoma  
Southwestern Electric Power Company  
West Texas Utilities Company  
Wheeling Power Company  
Note: All subsidiaries operate under the name American Electric Power. Their legal names are listed above.

American States Water Company (AWR)  
630 East Foothill Boulevard  
San Dimas, CA 91773-1212  
(909) 394-3600  
Southern California Water Company

Central Vermont Public Service Corporation (CV)  
77 Grove Street  
Rutland, VT 05701-0608  
(802) 773-2711  
Connecticut Valley Electric Company, Inc.

CH Energy Group, Inc. (CNH)  
284 South Avenue  
Poughkeepsie, NY 12601-4823  
(914) 452-2000  
Central Hudson Gas & Electric Corporation

Claery Corp. (CDN) *  
139 East Fourth Street  
Cincinnati, OH 45202-4003  
(513) 287-2644  
Cincinnati Gas & Electric Company, The  
Miami Power Corporation  
Union Light, Heat & Power Company  
West Harrison Gas & Electric Company  
PSI Energy, Inc.

* Subject to the full regulatory scope of the Public Utility Holding Company Act of 1935 (PUHCA).
### INVESTOR-OWNED ELECTRIC UTILITY HOLDING COMPANIES AND SYSTEMS, Cont’d.

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<tr>
<th>Company Name</th>
<th>Address</th>
<th>City</th>
<th>State</th>
<th>Zip Code</th>
<th>Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cleco Corporation (CNL)</td>
<td>2030 Donahue Ferry Road</td>
<td>Pineville</td>
<td>LA</td>
<td>71360-5226</td>
<td>(318) 484-7400</td>
</tr>
<tr>
<td>CMS Energy Corporation (CMS)</td>
<td>Fairlane Plaza South</td>
<td>Dearborn</td>
<td>MI</td>
<td>48126</td>
<td>(313) 436-9261</td>
</tr>
<tr>
<td>Connectiv (CTV)</td>
<td>800 King Street</td>
<td>Wilmington</td>
<td>DE</td>
<td>19899</td>
<td>(302) 429-3114</td>
</tr>
<tr>
<td>Consolidated Edison, Inc. (ED)</td>
<td>4 Irving Place</td>
<td>New York</td>
<td>NY</td>
<td>10003-3502</td>
<td>(212) 466-4600</td>
</tr>
<tr>
<td>Constellation Energy Group, Inc. (CEG)</td>
<td>250 West Pratt Street</td>
<td>Baltimore</td>
<td>MD</td>
<td>21201</td>
<td>(410) 234-5685</td>
</tr>
<tr>
<td>CP&amp;L Energy, Inc.</td>
<td>411 Fayetteville Street Mall</td>
<td>Raleigh</td>
<td>NC</td>
<td>27691-1748</td>
<td>(919) 546-6111</td>
</tr>
<tr>
<td>Dominion Resources, Inc. (DRJ)</td>
<td>120 Tredegar Street</td>
<td>Richmond</td>
<td>VA</td>
<td>23219</td>
<td>(804) 819-2000</td>
</tr>
<tr>
<td>DPL Inc. (DPL)</td>
<td>Courthouse Plaza, SW</td>
<td>Dayton</td>
<td>OH</td>
<td>45402</td>
<td>(577) 224-6000</td>
</tr>
<tr>
<td>DOE (DOE)</td>
<td>Cherrington Corp. Center</td>
<td>Chesapeake</td>
<td>VA</td>
<td>23320-3184</td>
<td>(412) 262-4700</td>
</tr>
<tr>
<td>Dominion New York, Inc.</td>
<td>2000 Second Avenue</td>
<td>Detroit</td>
<td>MI</td>
<td>48226-1279</td>
<td>(313) 235-8000</td>
</tr>
<tr>
<td>Duke Energy Corporation (DUK)</td>
<td>422 South Church Street</td>
<td>Charlotte</td>
<td>NC</td>
<td>28201-1006</td>
<td>(704) 594-6200</td>
</tr>
<tr>
<td>Dynegy (DYN)</td>
<td>1000 Louisiana</td>
<td>Houston</td>
<td>TX</td>
<td>77002</td>
<td>(713) 507-6400</td>
</tr>
<tr>
<td>Edison International (EIX)</td>
<td>2244 Walnut Grove Avenue</td>
<td>Rosemead</td>
<td>CA</td>
<td>91770-0800</td>
<td>(626) 302-2222</td>
</tr>
<tr>
<td>Energy East Corporation (EAS)</td>
<td>1 Commerce Plaza</td>
<td>Albany</td>
<td>NY</td>
<td>12260</td>
<td>(518) 434-3014</td>
</tr>
<tr>
<td>Exelon Corp. (EEX)</td>
<td>1400 Smith Street</td>
<td>Houston</td>
<td>TX</td>
<td>77002</td>
<td>(713) 853-6161</td>
</tr>
</tbody>
</table>

* * Subject to the full regulatory scope of the Public Utility Holding Company Act of 1935 (PUHCA).
INVESTOR-OWNED ELECTRIC UTILITY HOLDING COMPANIES AND SYSTEMS, Cont'd.

Entergy Corporation (EC) *
639 Loyola Avenue
New Orleans, LA  70113-1704
(504) 529-5262

Entergy Arkansas, Inc.

Entergy Gulf States, Inc.

Entergy Louisiana, Inc.

Entergy Mississippi, Inc.

Entergy New Orleans, Inc.

System Energy Resources, Inc.

Excelis Corporation (EXE) *
One First National Plaza
10 South Dearborn Street
Chicago, IL  60603-3005
(312) 394-7399

Commonwealth Edison Company

Commonwealth Edison Company of Indiana

FECO Energy Power Company

Susquehanna Power Company, The

Susquehanna Electric Company, The

FirstEnergy Corp. (FE) *
76 South Main
Akron, OH  44308-1890
(330) 376-3402

Cleveland Electric Illuminating Company, The

Ohio Edison Company

Pennsylvania Power Company

Toledo Edison Company, The

Florida Progress Corporation (FPC)
One Progress Plaza
St. Petersburg, FL 33701
(727) 824-6400

Florida Power Corporation

FPL Group, Inc. (FPL)
700 Universe Boulevard
Juno Beach, FL  33408-2683
(561) 694-4000

Florida Power & Light Company

GPU, Inc. (GPU) *
300 Madison Avenue
Morristown, NJ  07962-1911
(973) 455-8200

Jersey Central Power & Light Company

Metropolitan Edison Company

York Haven Power Company

Pennsylvania Electric Company

Note: GPU, Inc. operates under the name GPU. All subsidiaries operate under the name GPU Energy. Their legal names are listed above.

Hawaiian Electric Industries, Inc. (HEI)
900 Richards Street
Honolulu, HI  96813
(808) 546-5662

Hawaiian Electric Company, Inc.

Hawaii Electric Light Company, Inc.

Maui Electric Company, Ltd.

IDA CORP, Inc. (IDA)
1221 West Idaho Street
Boise, ID  83702-5627
(208) 388-2200

Idaho Power Company

IPALCO Enterprises, Inc. (IPL)
25 Monument Circle
Indianapolis, IN  46206-1595
(317) 261-8261

Indianapolis Power & Light Company

KeySpan Corporation (KSE)
One MetroTech Center
Brooklyn, NY  11201-3851
(718) 403-2000

KeySpan Generation LLC

LG&E Energy Corporation (LGE)
220 West Main Street
Louienville, KY  40223
(502) 627-2000

Kentucky Utilities Company

Louisville Gas and Electric Company

MidAmerican Energy Holdings Company (MEC)
666 Grand Avenue
Des Moines, IA  50309
(515) 242-4300

MidAmerican Energy Company

National Grid Group plc (NGG) *
National Grid House, Kirby Corner Road
Coventry CV4 8FY, England
011-44-1203-423616

National Grid USA *

Granite State Electric Company

Massachusetts Electric Company

Montauk Electric Company

Nantucket Electric Company

Narragansett Electric Company, The

New England Electric Transmission Corporation

New England Hydro-Transmission Corporation

New England Hydro-Transmission Electric Co.

New England Power Company

* Subject to the full regulatory scope of the Public Utility Holding Company Act of 1935 (PUHCA).
<table>
<thead>
<tr>
<th>Rank</th>
<th>Company Name</th>
<th>Address</th>
<th>City, State, Zip</th>
<th>Phone Number</th>
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<tr>
<td>10</td>
<td>All Electric Utilities</td>
<td>25x160</td>
<td>72x730</td>
<td>89x204</td>
</tr>
<tr>
<td></td>
<td>Niagara Mohawk Holdings Inc. (NMHC)</td>
<td>300 Eric Boulevard West, Syracuse, NY 13202-4201</td>
<td>(315) 474-1511</td>
<td>Niagara Mohawk Power Corp.</td>
</tr>
<tr>
<td></td>
<td>NiSource, Inc. (N)</td>
<td>801 East 86th Avenue, Merrillville, IN 46410</td>
<td>(219) 853-5200</td>
<td>Northern Indiana Public Service Company</td>
</tr>
<tr>
<td></td>
<td>OGE Energy Corp. (OGE)</td>
<td>321 North Harvey Avenue, Oklahoma City, OK 73102</td>
<td>(405) 553-3000</td>
<td>OGE Electric Services</td>
</tr>
<tr>
<td></td>
<td>PG&amp;E Corporation (PGC)</td>
<td>1 Market, Spear Tower, Suite 2400, San Francisco, CA 94105</td>
<td>(415) 267-7000</td>
<td>Pacific Gas &amp; Electric Company</td>
</tr>
<tr>
<td></td>
<td>Pinnacle West Capital Corporation (PNW)</td>
<td>400 East Van Buren Street, Phoenix, AZ 85072</td>
<td>(602) 379-2616</td>
<td>Arizona Public Service Company</td>
</tr>
<tr>
<td></td>
<td>PPL Corporation (PPL)</td>
<td>Two North Ninth Street, Allentown, PA 18101-1179</td>
<td>(610) 774-5151</td>
<td>PPL Utilities</td>
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<tr>
<td></td>
<td>Public Service Enterprise Group, Inc. (PSEG)</td>
<td>80 Park Plaza, Newark, NJ 07102-4106</td>
<td>(973) 430-7000</td>
<td>Public Service Electric and Gas Company</td>
</tr>
<tr>
<td></td>
<td>Reliant Energy, Inc. (REI)</td>
<td>1111 Louisiana, Houston, TX 77002-5231</td>
<td>(713) 207-3000</td>
<td>Reliant Energy HL&amp;P</td>
</tr>
<tr>
<td></td>
<td>RGS Energy Group Inc. (RGS)</td>
<td>85 East Avenue, Rochester, NY 14649-0001</td>
<td>(716) 771-4444</td>
<td>Rochester Gas and Electric Corporation</td>
</tr>
<tr>
<td></td>
<td>SCANA Corporation (SCG)</td>
<td>1426 Main Street, Columbia, SC 29201</td>
<td>(803) 217-9000</td>
<td>South Carolina Electric &amp; Gas Company, South Carolina Generating Company, Inc.</td>
</tr>
<tr>
<td></td>
<td>ScottishPower Group (SPG) *</td>
<td>1 Atlantic Quay, Glasgow G2 8SF, Scotland</td>
<td>011-44-141-248220</td>
<td>ScottishPower Corporation</td>
</tr>
<tr>
<td></td>
<td>Sempra Energy (SRE)</td>
<td>101 Ash Street, San Diego, CA 92101-3906</td>
<td>(619) 696-2000</td>
<td>San Diego Gas &amp; Electric Company</td>
</tr>
<tr>
<td></td>
<td>Sierra Pacific Resources (SPR)</td>
<td>6100 Neil Road, Reno, NV 89511-1132</td>
<td>(775) 834-4011</td>
<td>Nevada Power Company, Sierra Pacific Power Company</td>
</tr>
</tbody>
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*Subject to the full regulatory scope of the Public Utility Holding Company Act of 1935 (PUHCA).*
**INVESTOR-OWNED ELECTRIC UTILITY HOLDING COMPANIES AND SYSTEMS, Cont'd.**

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Address</th>
<th>Phone</th>
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<tbody>
<tr>
<td>TECO Energy, Inc. (TE)</td>
<td>702 North Franklin Street, Tampa, FL 33602-4418</td>
<td>(813) 228-4111</td>
</tr>
<tr>
<td>TNP Enterprises, Inc. (TNP)</td>
<td>4100 International Plaza Tower Two, Fort Worth, TX 76109-4896</td>
<td>(817) 731-0099</td>
</tr>
<tr>
<td>Texas Utilities Company (TXU)</td>
<td>d/b/a TXU Corp., Energy Plaza, 4501 Bryan Street, Dallas, TX 75201-3411</td>
<td>(214) 812-4600</td>
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<tr>
<td>UIL Holdings Corporation (UIL)</td>
<td>157 Church Street, New Haven, CT 06506-0901</td>
<td>(203) 299-2000</td>
</tr>
<tr>
<td>UGI Corporation (UGI)</td>
<td>460 North Gulph Road, King of Prussia, PA 19406</td>
<td>(610) 337-1000</td>
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<tr>
<td>UniSource Energy Corporation (UNS)</td>
<td>220 West Sixth Street, Tucson, AZ 85701-1093</td>
<td>(520) 571-4000</td>
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<tr>
<td>UNITIL Corporation (UNT)</td>
<td>Six Liberty Lane West, Hampton, NH 03822-1720</td>
<td>(603) 772-0775</td>
</tr>
<tr>
<td>Vectren, Inc. (VVC)</td>
<td>20 NW Fourth Street, Evansville, IN 47711-0001</td>
<td>(812) 465-5300</td>
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<tr>
<td>Western Resources, Inc. (WRU)</td>
<td>818 South Kansas Avenue, Topeka, KS 66612-1217</td>
<td>(785) 575-6500</td>
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<tr>
<td>Wisconsin Energy Corporation (WEC)</td>
<td>P.O. Box 2949, Milwaukee, WI 53201-2949</td>
<td>(414) 221-2345</td>
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<tr>
<td>WPS Resources Corporation (WPS)</td>
<td>700 North Adams Street, Green Bay, WI 54307</td>
<td>(920) 433-1727</td>
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<tr>
<td>Xcel Energy Inc. (XEL)</td>
<td>1225 17th Street, Denver, CO 80202-5533</td>
<td>(303) 571-7511</td>
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*Subject to the full regulatory scope of the Public Utility Holding Company Act of 1935 (PUHCA).*
INVESTOR-OWNED ELECTRIC UTILITY Mergers
AND COMPANY NAME CHANGES
October 1999 - October 2000

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<th>Company Name</th>
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<td>Blackstone Valley Electric Co.</td>
<td>Narragansett Electric Co.</td>
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<td>CMP Group, Inc.</td>
<td>Energy East Corp.</td>
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<tr>
<td>Central and SouthWest Corp.</td>
<td>American Electric Power Co., Inc.</td>
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<tr>
<td>CILCORP Inc.</td>
<td>AES Corporation</td>
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<td>Eastern Edison Co.</td>
<td>Massachusetts Electric Co.</td>
<td>04/19/00</td>
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<tr>
<td>Eastern Utilities Associates</td>
<td>National Grid USA</td>
<td>04/19/00</td>
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<tr>
<td>Illinova Corporation</td>
<td>Dynegy</td>
<td>02/01/00</td>
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<td>Minnesota Power, Inc.</td>
<td>ALLETE</td>
<td>09/05/00</td>
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<tr>
<td>Newport Electric Co.</td>
<td>Narragansett Electric Co.</td>
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<tr>
<td>New Century Energies</td>
<td>Xcel Energy Inc.</td>
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<td>New England Electric System (NEES)</td>
<td>National Grid USA</td>
<td>03/22/00</td>
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<td>North Carolina Power Co.</td>
<td>Dominion North Carolina Power</td>
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<td>PP&amp;L Resources, Inc.</td>
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<td>SIGCORP, Inc.</td>
<td>Vectren Corporation</td>
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<tr>
<td>Unicom Corporation</td>
<td>Exelon Corporation</td>
<td>10/20/00</td>
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<td>Utilicorp United Inc. (West Virginia Power)</td>
<td>Allegheny Power</td>
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<tr>
<td>Virginia Electric and Power Co.</td>
<td>Dominion Virginia Power</td>
<td>08/28/00</td>
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*Italics indicate company name change only.
GLOSSARY OF TERMS

Assets (and Other Debits) Items of value owned by or owed to a business. Represents either a property right or value acquired, or an expenditure made which has created a property right or is properly applicable to the future. Utility assets include: Utility Plant, Other Property and Investments, Current and Accrued Assets, and Deferred Debits.

Average Number of Customers The arithmetic averages of month-end customers in each of 12 consecutive months. For those billed other than every month, the number of such customers is adjusted to a 12-month basis (e.g., for bi-monthly billing the number of customers billed, or counted, in each month is multiplied by two and the result averaged for the 12-month period).

Classes of Electric Service Residential: A customer, sales, and revenue classification covering electric energy supplied for residential (household) purposes. The classification of an individual customer's account where the use is both residential and commercial is based on principal use. Commercial and Industrial: (Small Light and Power; Large Light and Power) A customer, sales, and revenue classification covering energy supplied for commercial and industrial purposes, except that supplied under special contracts or agreements or service classifications applicable only to municipalities or divisions or agencies of federal or state. Railroad and Railways: A customer, sales, and revenue classification covering electric energy supplied to railroads and interurban and street railways for general railroad use, including the propulsion of cars or locomotives, where such energy is supplied under separate and distinct rate schedules. Interdepartmental Sales: Kilowatt-hour sales of electric energy to other departments (gas, steam, water, etc.) and dollar value of such sales at tariff or other specified rates for the energy supplied. Sales for Resale: (Other Electric Utilities) Sales of electric energy to other electric utilities or public authorities for resale purposes.

Combination Company A company which renders more than one type of utility service, such as electric and gas. If more than 95% of such a company's utility plant is devoted to one type of service, or more than 95% of its operating revenue is derived from one type of service, it is not classified as a combination company.

Customer (Electric) An individual, firm, organization, or other electric utility which purchases electric service at one location under one rate classification, contract, or schedule. If service is supplied to a customer at more than one location, each location shall be counted as a separate customer unless the consumptions are combined before the bill is calculated. See also Ultimate Customers.

Electric Utility Industry or Electric Utilities All enterprises engaged in the production and/or distribution of electricity for use by the public, including investor-owned electric utility companies; cooperatively-owned electric utilities; government-owned electric utilities (municipal systems, federal agencies, state projects, and public power districts); and where the data are not separable, those industrial plants contributing to the public supply.

Generation, Electric The act or process of transforming other forms of energy into electric energy, or to the amount of electric energy so produced, expressed in kilowatt-hours. Gross The total amount of electric energy produced by the generating units in a generating station or stations measured at the generator terminals. Net Gross generation less kilowatt-hours used at the generating station(s).

Holding Company, Electric Utility Usually means a Corporation (parent company) that directly or indirectly owns a majority or all of the voting securities of one or more electric utility companies which are located in the same or contiguous states. As most states do not permit a foreign utility company (i.e., one which operates in another state) to operate within their own boundaries, the holding company type of organization is used to bring into one family, consistent with state law, companies that can best be operated as part of an integrated utility system. See also Holding Company, Registered

Holding Company, Registered Under the Public Utility Holding Company Act of 1935 (PUHCA) unless an exemption is available, all holding companies whose subsidiaries are engaged in the electric utility business or in retail distribution of natural manufactured gas must register with the Securities and Exchange Commission (SEC) as a company that directly or indirectly owns 10% or more of the voting securities of a public utility. Once registered, a holding company (i) must limit the operations of each holding company system to a "single integrated public utility system" with only "such other businesses as are reasonably incidental or economically necessary or appropriate to the operations of [the]...system," and (ii) comply with various regulations regarding the financing and operation of the holding company system.

Holding Company, Exempt Unless the SEC finds that the exemption is detrimental to the public interest or the interests of investors or consumers, a utility holding company may be exempted from the provisions of PUHCA under certain conditions.

Investor-Owned Electric Utilities Those electric utilities organized as tax-paying businesses usually financed by the sale of securities in the free market, and whose properties are managed by representatives regularly elected by their shareholders. Investor-owned electric utilities, which may be owned by an individual proprietor or a small group of people, are usually corporations owned by the general public.

Operating Company Any company engaged in the production, transmission or distribution of electric energy. Usually excludes those which are cooperatively or municipally operated and federal/state power projects.

Operating Revenues The amounts billed by the utility for utility services rendered and for other services incident thereto.

Ultimate Customers Those customers purchasing electricity for their own use and not for resale.
Advance Release—2000 Edition
Data for the Statistical Yearbook of the Electric Utility Industry/1999

Get your first look at 1999 electric utility industry data with EEI's Advance Release—2000 Edition. This is the initial data collection charting 1999 electric utility operations and financial performance. Previewing year-end results in easy-to-read charts and tables, this release provides the most current data available on:

- Installed capacity by state and prime mover
- Generation by state and prime mover
- Fuel consumption
- Customers, sales, and revenues by state and customer class
- Revenue per kilowatthour by state and customer class
- Revenue and use per customer by state and customer class
- Combined balance sheets and income statements
- Long-term financing
- And more

Use these figures to get a head start on your analysis of 1999. EEI, 2000.

Item # 03-00-11-009
List Price: $90.00
EEI Member Price: $45.00

Capacity and Generation of Non-Utility Sources of Energy

The data is now available as special data reports. The summary tables containing capacity and generation by state, type of producer, fuel and industry class will be created for immediate delivery. You can also request custom data runs to meet your specific data needs. Order a single table, or as many as you need with exactly the data you need...and no data that you don't need! Data are available for calendar years 1985 through 1998.

Give EEI a call and let's discuss your data needs! Call Peggy Suggs at 202-508-5572 or e-mail psuggs@eei.org


The Catalogue is an essential reference that should be on the shelf of all energy professionals! Expanded and completely updated!

Your one-stop resource for:

- Who are the industry's players?
- Which companies have merged or changed names?
- Which companies are no longer in existence?
- Which companies are jointly owned?

You get complete IOU listings of:

- All operating companies (Organized by state)
- All holding companies and systems
- All jointly-owned and combination companies

Company information includes:

- Current company names, addresses and telephone numbers
- Revenues
- Rankings by sales, revenues, and customers
- Ultimate customers
- Megawatthour sales
- Mergers and acquisitions
- Power marketing affiliates of investor-owned electric utilities

This nuts-and-bolts directory is a basic reference that should be on the office shelf of everyone involved in the energy industry! Available as a print publication or as a PDF file. EEI, 2000.

FREE to EEI Utility Members - EEI Utility Members have FREE access to the Catalogue in EEI Member Net's Products and Services section at www.eei.org/member_net. Print copies can be purchased for an additional cost.

Print Format:
Item # 03-00-12-009
List Price: $95.00
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Additional holding company rankings include total operating revenues, market capitalization, and total employees. Useful for utilities, public service commissions, governmental agencies, energy consultants, and financial institutions. Rankings help industry stakeholders with company-to-company comparisons.

Available as a print publication or as a PDF file. EEI, 2000. FREE to EEI Utility Members — EEI Utility Members have FREE access to the Rankings of IOUs in EEI Member Net Products and Services section at www.eei.org/member_net. Print copies can be purchased for an additional cost.

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Operating Stats
• Installed capacity
• Average kilowatthour use
• Fuel use and type
• Consumption of fossil fuels
• Generation and supply
• Capacity, capability and peak load
• Sources of energy for generation
• Average delivered cost of fossil fuels
• Circuit miles of overhead lines

Financial Performance/Economic Statistics
• Sales, revenues, and customers
• Taxes
• Utility finance
• Income statements
• Long-term utility financing
• Balance sheets
• Common stock averages
• Average yields
• Construction expenditures

Data is collected from a variety of private and public sources. Other sources of energy are also included in these aggregate figures. Available as a print publication or a PDF file. EEI, 2000.

FREE to EEI Utility Members — EEI Utility Members have FREE access to the Statistical Yearbook as part of the Statistical Release Package in EEI Member Net's Products and Services section at www.eei.org/member_net. Print copies can be purchased for an additional cost.

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910

DOE002-0920

Obtained and made public by the Natural Resources Defense Council, March/April 2002
New Coal Additions 1980-2000

Source: Energy Information Administration
U.S. AND EUROPEAN TECHNOLOGY BASES FOR MODULAR HIGH TEMPERATURE REACTORS

BROAD FOUNDATION OF HELIUM REACTOR TECHNOLOGY

EXPERIMENTAL REACTORS
- DRAGON (U.K.) 1963-76
- AVR (FRG) 1967-1988
- PEACH BOTTOM 1 (U.S.A.) 1967-1974
- FORT ST. VRAIN (U.S.A.) 1976-1989
- THTR (FRG) 1986-1989

DEMONSTRATION OF BASIC HTGR TECHNOLOGY

LARGE HTGR PLANTS

HTGR TECHNOLOGY PROGRAM
- MATERIALS
- COMPONENTS
- FUEL
- CORE
- PLANT TECHNOLOGY

MODULAR HTGR CONCEPT

GT-MHR

GENERAL ATOMICS
MODULAR HELIUM REACTOR CHARACTERISTICS
ATTRACTION FOR GEN IV GOALS

- Helium gas coolant (inert)
- Refractory fuel (high temperature capability)
- Graphite reactor core (high temperature stability)
- Low power density (order of magnitude lower than LWRs)
- Demonstrated technologies

...EFFICIENT, RELIABLE PERFORMANCE WITH INHERENT SAFETY

+ GENERAL ATOMICS
MODULAR HELIUM REACTOR REPRESENTS A FUNDAMENTAL CHANGE IN REACTOR DESIGN AND SAFETY PHILOSOPHY

...SIZED AND CONFIGURED TO TOLERATE EVEN A SEVERE ACCIDENT

GENERAL ATOMICS
CERAMIC FUEL RETAINS ITS INTEGRITY UNDER SEVERE ACCIDENT CONDITIONS

TRISO Coated fuel particles (left) are formed into fuel rods (center) and inserted into graphite fuel elements (right).

Pyrolytic Carbon
Silicon Carbide
Porous Carbon Buffer
Uranium Oxycarbide

PARTICLES
COMPACTS
FUEL ELEMENTS

GENERAL ATOMICS
CONTROL PARTICLES STABLE TO BEYOND MAXIMUM ACCIDENT TEMPERATURES

FUEL TEMPERATURE (°C)

FAILURE FRACTION

NORMAL PEAK TEMPERATURE

MAXIMUM DESIGN BASIS EVENT TEMPERATURE

GENERAL ATOMICS
ANNULAR REACTOR CORE LIMITS FUEL TEMPERATURE DURING ACCIDENTS

- REPLACEABLE CENTRAL & SIDE REFLECTORS
- CORE BARREL
- ACTIVE CORE 102 COLUMNS 10 BLOCKS HIGH
- PERMANENT SIDE REFLECTOR
- 36 X OPERATING CONTROL RODS
- BORATED PINS (TYP)
- REFUELING PENETRATIONS
- 12 X START-UP CONTROL RODS
- 18 X RESERVE SHUTDOWN CHANNELS

ANNULAR CORE USES EXISTING TECHNOLOGY

GENERAL ATOMICS
POSSIBLE DECAY HEAT REMOVAL PATHS WHEN NORMAL POWER CONVERSION SYSTEM IS UNAVAILABLE

A) Active Shutdown Cooling System

B) Passive Reactor Cavity Cooling System

C) Passive Radiation and Conduction of Afterheat to Silo Containment (Beyond Design Basis Event)

DEFENSE-IN-DEPTH BUTTRESSED BY INHERENT CHARACTERISTICS
FUEL TEMPERATURES REMAIN BELOW DESIGN LIMITS DURING LOSS OF COOLING EVENTS

Design Goal = 1600°C

Depressurized

Pressurized

To Ground

Fuel Temperature (°C)

Time After Initiation (Days)

PASSIVE DESIGN FEATURES ENSURE FUEL REMAINS BELOW 1600°C

GENERAL ATOMICS
PASSIVE SAFETY BY DESIGN

- Fission Products Retained in Coated Particles
  - High temperature stability materials
  - Refractory coated fuel
  - Graphite moderator

- Worst case fuel temperature limited by design features
  - Low power density
  - Low thermal rating per module
  - Annular Core
  - Passive heat removal

  ....CORE CAN'T MELT

- Core Shuts Down Without Rod Motion

* GENERAL ATOMICS